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Data obtained through Sentinel are intended to complement other types of evidence such as preclinical studies, clinical trials, postmarket studies, and adverse event reports, all of which are used by FDA to inform regulatory decisions regarding medical product safety. The information contained in this report is provided as part of FDA's commitment to place knowledge acquired from Sentinel in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Sentinel queries will continue to be communicated through existing channels.

FDA wants to emphasize that the fact that FDA has initiated a query involving a medical product and is reporting findings related to that query does not mean that FDA is suggesting health care practitioners should change their prescribing practices for the medical product or that patients taking the medical product should stop using it. Patients who have questions about the use of an identified medical product should contact their health care practitioners.

The following report contains a description of the request, request specifications, and results from the modular program run(s).

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Overview for Request: cder_mpl1r_wp149

Request ID: cder_mpl1r_wp149_nsdp_v01

Request Description: In this report we estimated rates of hypertension in a pediatric population within the Sentinel Distributed Database (SDD).

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 8.1.0

Data Source: We included data from January 1, 2008 to April 30, 2019 from 15 Data Partners contributing to the SDD. We distributed the request to Data Partners on September 26, 2019. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: We conducted a descriptive analysis of pediatric members with hypertension in the SDD. We estimated rates of hypertension in the overall eligible member population, and further stratified our results by age, sex, calendar year, race, and Hispanic ethnicity. We additionally calculated the duration of enrollment follow-up time among members with hypertension in our cohorts. Finally, we included a distribution of the codes used to define cohort-qualifying diagnoses of hypertension for each member in the analytic cohorts. This is a Type 1 analysis in the Query Request Package (QRP) documentation.

Event of Interest: The event of interest in this request was hypertension among a pediatric population. We used two separate definitions of hypertension in this request: 1) two outpatient¹ hypertension diagnoses within 183 days of each other OR one inpatient hypertension diagnosis; 2) any hypertension diagnosis in any care setting. All valid diagnosis events were identified; cohort re-entry was allowed. We defined hypertension using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes. Please see Appendix B for a specific list of diagnosis codes used to define the event of interest in this request.

Cohort Eligibility Criteria: We required members to be enrolled in health plans with medical and drug coverage in the 365 days prior to their index diagnosis date in order to be included in the cohorts; a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. We included the following age groups in the cohorts: 0-2, 3-5, 6-11, and 12-17 years.

Baseline Characteristics: We assessed the following baseline characteristics in the 365 days prior to and including the date of index defining diagnoses: obesity, body mass index (in four categories: underweight, normal weight, overweight, and obese), type 2 diabetes mellitus, dyslipidemia, chronic kidney disease, left ventricular hypertrophy, pyelonephritis, vesicoureteral reflux, neurofibromatosis type 1, hyperthyroidism, tuberous sclerosis, systemic lupus erythematosus, Cushing's syndrome, Williams syndrome, and Turner's syndrome. We additionally evaluated the use of the following anti-hypertensive medications in the 365 days prior to and including the index date, and from the first day following index through to the end of enrollment: angiotensin receptor blockers (ARBs), angiotensin-converting enzyme (ACE) inhibitors, alpha antagonists, beta-blockers, calcium channel blockers, central alpha-agonists, direct renin inhibitors, direct vasodilators, diuretics, and combination products.

Sensitivity Analyses: In the sensitivity analysis time periods we included two additional baseline characteristics, which were assessed in the 365 days prior to and including the index date: encounter for examination of blood pressure without abnormal findings (Z01.30) and encounter for examination of blood pressure with abnormal findings (Z01.31).

We defined the baseline characteristics using ICD-9-CM and ICD-10-CM diagnosis codes, ICD-9-CM and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes, and National Drug Codes (NDCs). Please see Appendices C and D for a list of diagnosis and procedure codes and generic and brand medical product names used to define baseline characteristics in this request.

Overview for Request: cder_mpl1r_wp149

Sensitivity Analyses: As a sensitivity analysis, we assessed the baseline characteristics of our analytic cohorts in two additional time periods: 1) October 1, 2015 to April 30, 2019 and 2) October 1, 2016 to April 30, 2019. The purpose of this was to assess the presence of two International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes as baseline characteristics in the ICD-10-CM only era. We included the time period from October 1, 2016 to April 30, 2019 to allow for a full year of time in the ICD-10-CM era for the baseline characteristic evaluation window.

Please see Appendices E-I for specifications for parameters and a diagram of cohort enrollment requirements for the analyses in this request.

Limitations: Algorithms used to define events and baseline characteristics are imperfect; thus, it is possible that there may be misclassification. Additionally at some Data Partners, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners that participate in Sentinel do not provide any race or ethnicity data. Therefore, data should be interpreted with these limitations in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinelssystem.org) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tooldocumentation/browse>).

¹In Hypertension Definition 1, outpatient diagnoses included those that occurred in the following care settings: emergency department encounter, ambulatory visit, non-acute institutional stay, or other ambulatory visit.

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**Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module***

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

Emergency Department (ED) - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

Other Ambulatory Visit (OA) - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest.

Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

Table 1a. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019

Characteristic ¹	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
	Number	Percent	Number	Percent
Number of diagnoses	272,204		427,526	
Number of unique patients	62,363		141,860	
Demographics	Mean	Standard Deviation	Mean	Standard Deviation
Mean Age (years)	12.6	4.9	12.9	4.7
	Number	Percent	Number	Percent
Age (years)				
0-2	19,914	7.3%	24,816	5.8%
3-5	21,635	7.9%	29,567	6.9%
6-11	53,186	19.5%	81,433	19.0%
12-17	177,469	65.2%	291,710	68.2%
Sex				
Female	23,299	37.4%	55,775	39.3%
Male	39,062	62.6%	86,081	60.7%
Other	2	0.0%	4	0.0%
Race				
American Indian or Alaska Native	110	0.2%	252	0.2%
Asian	1,037	1.7%	1,989	1.4%
Black or African American	3,218	5.2%	6,928	4.9%
Native Hawaiian or Other Pacific Islander	184	0.3%	376	0.3%
White	8,288	13.3%	18,193	12.8%
Unknown	49,526	79.4%	114,122	80.4%
Hispanic Origin	1,924	3.1%	4,022	2.8%
Year				
2008	14,224	5.2%	24,721	5.8%
2009	25,952	9.5%	43,038	10.1%
2010	27,142	10.0%	43,242	10.1%
2011	26,430	9.7%	41,371	9.7%
2012	24,363	9.0%	38,128	8.9%
2013	24,346	8.9%	38,120	8.9%
2014	25,844	9.5%	39,137	9.2%
2015	27,087	10.0%	40,971	9.6%
2016	32,023	11.8%	47,944	11.2%
2017	28,132	10.3%	43,818	10.2%
2018	16,539	6.1%	26,749	6.3%
2019	122	0.0%	287	0.1%
Recorded History of in 365 Days Prior to Hypertension				
Diagnosis:	Number	Percent	Number	Percent
Obesity ²	67,488	24.8%	102,989	24.1%

Table 1a. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019

	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
	Number	Percent	Number	Percent
BMI - Underweight	1,589	0.6%	2,071	0.5%
BMI - Normal Weight	12,262	4.5%	17,652	4.1%
BMI - Overweight	6,018	2.2%	9,014	2.1%
BMI - Obese ²	24,365	9.0%	38,182	8.9%
Type 2 Diabetes Mellitus	17,015	6.3%	27,515	6.4%
Dyslipidemia	31,782	11.7%	50,937	11.9%
Chronic Kidney Disease	82,313	30.2%	98,718	23.1%
Left Ventricular Hypertrophy	22,188	8.2%	25,940	6.1%
Pyelonephritis	5,356	2.0%	6,383	1.5%
Vesicoureteral Reflux	8,657	3.2%	10,125	2.4%
Neurofibromatosis Type 1	1,400	0.5%	1,747	0.4%
Hyperthyroidism	2,888	1.1%	3,817	0.9%
Tuberous Sclerosis	1,268	0.5%	1,440	0.3%
Systemic Lupus Erythematosus	4,374	1.6%	5,053	1.2%
Cushing's Syndrome	2,601	1.0%	2,946	0.7%
Williams Syndrome	2,309	0.8%	2,696	0.6%
Turner's Syndrome	943	0.3%	1,291	0.3%
Recorded History of Anti-Hypertensive Agent Use in 365 Days Prior to Hypertension Diagnosis:				
	Number	Percent	Number	Percent
Angiotensin Receptor Blockers	10,977	4.0%	13,502	3.2%
Angiotensin-Converting Enzyme Inhibitors	83,371	30.6%	105,440	24.7%
Alpha Antagonists	2,374	0.9%	2,728	0.6%
Beta-Blockers	39,385	14.5%	47,886	11.2%
Calcium Channel Blockers	68,555	25.2%	79,477	18.6%
Central Alpha-Agonists	25,843	9.5%	32,262	7.5%
Direct Renin Inhibitors	58	0.0%	71	0.0%
Direct Vasodilators	5,353	2.0%	5,618	1.3%
Diuretics	34,663	12.7%	41,354	9.7%
Combination Products	10,919	4.0%	14,238	3.3%
Use of Anti-Hypertensive Agents after Hypertension Diagnosis through End of Enrollment:				
	Number	Percent	Number	Percent
Angiotensin Receptor Blockers	19,109	7.0%	23,108	5.4%
Angiotensin-Converting Enzyme Inhibitors	105,465	38.7%	130,232	30.5%
Alpha Antagonists	3,978	1.5%	4,769	1.1%
Beta-Blockers	55,132	20.3%	67,075	15.7%
Calcium Channel Blockers	84,763	31.1%	97,228	22.7%
Central Alpha-Agonists	34,070	12.5%	42,119	9.9%
Direct Renin Inhibitors	150	0.1%	173	0.0%
Direct Vasodilators	6,930	2.5%	7,353	1.7%
Diuretics	44,690	16.4%	53,645	12.5%

Table 1a. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019

	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
	Mean	Standard Deviation	Mean	Standard Deviation
Combination Products	19,596	7.2%	24,703	5.8%
Health Service Utilization Intensity in 365 Days Prior to Hypertension Diagnosis:				
Mean number of ambulatory encounters (AV)	31.2	45.8	24.6	39.3
Mean number of emergency room encounters (ED)	1.5	5.6	1.2	4.7
Mean number of inpatient hospital encounters (IP)	1.1	2.5	0.8	2.1
Mean number of non-acute institutional encounters (IS)	0.0	0.6	0.0	0.5
Mean number of other ambulatory encounters (OA)	16.2	48.5	11.3	40.3

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients; each baseline characteristic table represents one cohort.

²Obesity and BMI - Obese baseline characteristics have mutually exclusive code lists; "Obesity" was not coded using any BMI-specific codes.

Table 1b. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between October 1, 2015 and April 30, 2019

Characteristic ¹	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
	Number	Percent	Number	Percent
Number of diagnoses	84,029		129,845	
Number of unique patients	20,502		45,309	
Demographics	Mean	Standard Deviation	Mean	Standard Deviation
Mean Age (years)	12.3	5.1	12.7	4.9
	Number	Percent	Number	Percent
Age (years)				
0-2	6,901	8.2%	8,576	6.6%
3-5	7,913	9.4%	10,475	8.1%
6-11	16,214	19.3%	24,327	18.7%
12-17	53,001	63.1%	86,467	66.6%
Sex				
Female	8,071	39.4%	18,446	40.7%
Male	12,431	60.6%	26,863	59.3%
Race				
American Indian or Alaska Native	27	0.1%	62	0.1%
Asian	384	1.9%	713	1.6%
Black or African American	867	4.2%	1,735	3.8%
Native Hawaiian or Other Pacific Islander	68	0.3%	126	0.3%
White	2,354	11.5%	4,798	10.6%
Unknown	16,802	82.0%	37,875	83.6%
Hispanic Origin	664	3.2%	1,316	2.9%
Year				
2015	7,213	8.6%	11,047	8.5%
2016	32,023	38.1%	47,944	36.9%
2017	28,132	33.5%	43,818	33.7%
2018	16,539	19.7%	26,749	20.6%
2019	122	0.1%	287	0.2%
Recorded history of in 365 Days Prior to Hypertension	Number	Percent	Number	Percent
Diagnosis:				
Obesity ²	21,161	25.2%	32,461	25.0%
BMI - Underweight	824	1.0%	1,125	0.9%
BMI - Normal Weight	6,874	8.2%	10,118	7.8%
BMI - Overweight	3,548	4.2%	5,330	4.1%
BMI - Obese ²	13,216	15.7%	21,135	16.3%
Type 2 Diabetes Mellitus	3,787	4.5%	6,182	4.8%
Dyslipidemia	9,034	10.8%	13,848	10.7%
Chronic Kidney Disease	29,920	35.6%	35,567	27.4%
Left Ventricular Hypertrophy	7,734	9.2%	9,033	7.0%

Table 1b. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between October 1, 2015 and April 30, 2019

	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
Pyelonephritis	2,183	2.6%	2,555	2.0%
Vesicoureteral Reflux	3,490	4.2%	3,968	3.1%
Neurofibromatosis Type 1	407	0.5%	522	0.4%
Hyperthyroidism	781	0.9%	1,001	0.8%
Tuberous Sclerosis	703	0.8%	769	0.6%
Systemic Lupus Erythematosus	1,437	1.7%	1,652	1.3%
Cushing's Syndrome	577	0.7%	660	0.5%
Williams Syndrome	16	0.0%	32	0.0%
Turner's Syndrome	220	0.3%	330	0.3%
Blood pressure exam without abnormal findings	695	0.8%	967	0.7%
Blood pressure exam with abnormal findings	119	0.1%	179	0.1%
Recorded History of Anti-Hypertensive Agent Use in 365 Days Prior to Hypertension Diagnosis:				
	Number	Percent	Number	Percent
Angiotensin Receptor Blockers	3,281	3.9%	4,092	3.2%
Angiotensin-Converting Enzyme Inhibitors	24,159	28.8%	30,956	23.8%
Alpha Antagonists	867	1.0%	1,036	0.8%
Beta-Blockers	12,433	14.8%	14,961	11.5%
Calcium Channel Blockers	23,891	28.4%	27,720	21.3%
Central Alpha-Agonists	8,998	10.7%	11,058	8.5%
Direct Renin Inhibitors	0	0.0%	0	0.0%
Direct Vasodilators	1,778	2.1%	1,850	1.4%
Diuretics	10,350	12.3%	12,206	9.4%
Combination Products	2,647	3.2%	3,502	2.7%
Use of Anti-Hypertensive Agents after Hypertension Diagnosis through End of Enrollment:				
	Number	Percent	Number	Percent
Angiotensin Receptor Blockers	4,514	5.4%	5,383	4.1%
Angiotensin-Converting Enzyme Inhibitors	28,024	33.4%	34,366	26.5%
Alpha Antagonists	992	1.2%	1,213	0.9%
Beta-Blockers	14,202	16.9%	16,619	12.8%
Calcium Channel Blockers	26,308	31.3%	29,559	22.8%
Central Alpha-Agonists	9,331	11.1%	11,162	8.6%
Direct Renin Inhibitors	7	0.0%	7	0.0%
Direct Vasodilators	1,791	2.1%	1,836	1.4%
Diuretics	10,111	12.0%	11,806	9.1%
Combination Products	3,603	4.3%	4,477	3.4%
Health Service Utilization Intensity in 365 Days Prior to Hypertension Diagnosis:				
	Mean	Standard Deviation	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	35.2	51.3	27.7	44.3
Mean number of emergency room encounters (ED)	1.6	4.6	1.3	3.9
Mean number of inpatient hospital encounters (IP)	1.2	2.4	0.9	2.1

Table 1b. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between October 1, 2015 and April 30, 2019

	Hypertension Definition 1:		Hypertension Definition 2:	
	2 Outpatient Claims or 1 Inpatient Claim		Any Hypertension Claim	
Mean number of non-acute institutional encounters (IS)	0.1	0.8	0.0	0.7
Mean number of other ambulatory encounters (OA)	22.5	58.9	15.8	49.7

¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

²Obesity and BMI - Obese baseline characteristics have mutually exclusive code lists; "Obesity" was not coded using any BMI-specific codes.

Table 1c. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between October 1, 2016 and April 30, 2019

Characteristic ¹	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
	Number	Percent	Number	Percent
Number of diagnoses	52,384		82,323	
Number of unique patients	14,104		30,814	
Demographics	Mean	Standard Deviation	Mean	Standard Deviation
Mean Age (years)	12.3	5.1	12.7	4.8
	Number	Percent	Number	Percent
Age (years)				
0-2	4,241	8.1%	5,436	6.6%
3-5	4,749	9.1%	6,488	7.9%
6-11	10,478	20.0%	15,712	19.1%
12-17	32,916	62.8%	54,687	66.4%
Sex				
Female	5,564	39.4%	12,600	40.9%
Male	8,540	60.6%	18,214	59.1%
Race				
American Indian or Alaska Native	18	0.1%	40	0.1%
Asian	290	2.1%	529	1.7%
Black or African American	585	4.1%	1,128	3.7%
Native Hawaiian or Other Pacific Islander	49	0.3%	87	0.3%
White	1,595	11.3%	3,181	10.3%
Unknown	11,567	82.0%	25,849	83.9%
Hispanic Origin	470	3.3%	919	3.0%
Year				
2016	7,591	14.5%	11,469	13.9%
2017	28,132	53.7%	43,818	53.2%
2018	16,539	31.6%	26,749	32.5%
2019	122	0.2%	287	0.3%
Recorded history of in 365 Days Prior to Hypertension Diagnosis:	Number	Percent	Number	Percent
Obesity ²	13,842	26.4%	21,636	26.3%
BMI - Underweight	684	1.3%	948	1.2%
BMI - Normal Weight	5,226	10.0%	7,888	9.6%
BMI - Overweight	2,633	5.0%	4,031	4.9%
BMI - Obese ²	9,638	18.4%	15,615	19.0%
Type 2 Diabetes Mellitus	2,514	4.8%	4,176	5.1%
Dyslipidemia	6,115	11.7%	9,500	11.5%
Chronic Kidney Disease	18,891	36.1%	23,049	28.0%
Left Ventricular Hypertrophy	5,303	10.1%	6,304	7.7%
Pyelonephritis	1,590	3.0%	1,879	2.3%
Vesicoureteral Reflux	2,189	4.2%	2,552	3.1%
Neurofibromatosis Type 1	265	0.5%	347	0.4%

Table 1c. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between October 1, 2016 and April 30, 2019

	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim		Hypertension Definition 2: Any Hypertension Claim	
Hyperthyroidism	479	0.9%	636	0.8%
Tuberous Sclerosis	277	0.5%	327	0.4%
Systemic Lupus Erythematosus	1,047	2.0%	1,206	1.5%
Cushing's Syndrome	444	0.8%	512	0.6%
Williams Syndrome	16	0.0%	32	0.0%
Turner's Syndrome	161	0.3%	242	0.3%
Blood pressure exam without abnormal findings	551	1.1%	765	0.9%
Blood pressure exam with abnormal findings	75	0.1%	119	0.1%
Recorded History of Anti-Hypertensive Agent Use in 365 Days Prior to Hypertension				
Diagnosis:	Number	Percent	Number	Percent
Angiotensin Receptor Blockers	1,993	3.8%	2,585	3.1%
Angiotensin-Converting Enzyme Inhibitors	15,032	28.7%	19,801	24.1%
Alpha Antagonists	550	1.0%	665	0.8%
Beta-Blockers	7,612	14.5%	9,362	11.4%
Calcium Channel Blockers	14,855	28.4%	17,656	21.4%
Central Alpha-Agonists	5,619	10.7%	6,988	8.5%
Direct Renin Inhibitors	0	0.0%	0	0.0%
Direct Vasodilators	1,045	2.0%	1,104	1.3%
Diuretics	5,970	11.4%	7,306	8.9%
Combination Products	1,574	3.0%	2,176	2.6%
Use of Anti-Hypertensive Agents after Hypertension Diagnosis through End of Enrollment:				
Enrollment:	Number	Percent	Number	Percent
Angiotensin Receptor Blockers	2,489	4.8%	3,067	3.7%
Angiotensin-Converting Enzyme Inhibitors	16,725	31.9%	20,948	25.4%
Alpha Antagonists	614	1.2%	747	0.9%
Beta-Blockers	8,269	15.8%	9,801	11.9%
Calcium Channel Blockers	15,522	29.6%	17,748	21.6%
Central Alpha-Agonists	5,483	10.5%	6,596	8.0%
Direct Renin Inhibitors	1	0.0%	1	0.0%
Direct Vasodilators	934	1.8%	963	1.2%
Diuretics	5,466	10.4%	6,541	7.9%
Combination Products	1,962	3.7%	2,522	3.1%
Health Service Utilization Intensity in 365 Days Prior to Hypertension Diagnosis:				
	Mean	Standard Deviation	Mean	Standard Deviation
Mean number of ambulatory encounters (AV)	34.2	48.8	27.0	42.1
Mean number of emergency room encounters	1.5	3.6	1.2	3.1
Mean number of inpatient hospital encounters	1.2	2.5	0.8	2.1
Mean number of non-acute institutional encounters	0.1	0.9	0.0	0.8
Mean number of other ambulatory encounters	21.8	56.9	15.3	47.8

Table 1c. Baseline Characteristics for Pediatric Members with Hypertension in the Sentinel Distributed Database (SDD) between October 1, 2016 and April 30, 2019

	Hypertension Definition 1: 2 Outpatient Claims or 1 Inpatient Claim	Hypertension Definition 2: Any Hypertension Claim
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¹All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

²Obesity and BMI - Obese baseline characteristics have mutually exclusive code lists; "Obesity" was not coded using any BMI-specific codes.

Table 2a. Summary of Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹

	Members with Diagnosis	Number of Diagnoses	Eligible Members²	Eligible Member-Years²	Members with Diagnosis per 10,000 Eligible Members
Hypertension Definition 1	62,363	272,204	26,493,696	67,740,191.5	23.54
Hypertension Definition 2	141,860	427,526	26,493,696	67,740,191.5	53.54

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

²Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

Table 2b. Summary of Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹ and Year

Year	Members with Diagnosis	Number of Diagnoses	Eligible Members ²	Eligible Member-Years ²	Members with Diagnosis per 10,000 Eligible Members
Hypertension Definition 1					
2008	5,438	14,224	8,604,472	3,716,672.6	6.32
2009	9,206	25,952	8,760,136	6,956,081.8	10.51
2010	9,115	27,142	8,348,967	6,732,853.8	10.92
2011	8,661	26,430	7,979,374	6,447,160.2	10.85
2012	8,056	24,363	8,371,626	6,161,861.9	9.62
2013	7,986	24,346	7,687,791	6,240,241.2	10.39
2014	7,955	25,844	7,876,978	6,392,766.1	10.10
2015	8,479	27,087	8,063,422	6,635,364.2	10.52
2016	9,430	32,023	9,072,785	6,764,988.3	10.39
2017	8,733	28,132	8,282,023	6,693,232.9	10.54
2018	5,408	16,539	6,853,898	4,863,695.3	7.89
2019	78	122	1,095,635	135,273.2	0.71
Hypertension Definition 2					
2008	12,453	24,721	8,604,472	3,716,672.6	14.47
2009	20,656	43,038	8,760,136	6,956,081.8	23.58
2010	19,609	43,242	8,348,967	6,732,853.8	23.49
2011	18,287	41,371	7,979,374	6,447,160.2	22.92
2012	16,962	38,128	8,371,626	6,161,861.9	20.26
2013	16,750	38,120	7,687,791	6,240,241.2	21.79
2014	16,459	39,137	7,876,978	6,392,766.1	20.90
2015	17,466	40,971	8,063,422	6,635,364.2	21.66
2016	19,829	47,944	9,072,785	6,764,988.3	21.86
2017	18,687	43,818	8,282,023	6,693,232.9	22.56
2018	11,402	26,749	6,853,898	4,863,695.3	16.64
2019	190	287	1,095,635	135,273.2	1.73

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

²Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

Table 2c. Summary of Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹ and Sex

Sex	Members with Diagnosis	Number of Diagnoses	Eligible Members ²	Eligible Member-Years ²	Members with Diagnosis per 10,000 Eligible Members
Hypertension Definition 1					
Female	23,299	106,259	12,950,753	33,115,238.9	17.99
Male	39,062	165,935	13,541,676	34,622,962.3	28.85
Other	2	10	1,267	1,990.3	15.79
Hypertension Definition 2					
Female	55,775	166,553	12,950,753	33,115,238.9	43.07
Male	86,081	260,959	13,541,676	34,622,962.3	63.57
Other	4	14	1,267	1,990.3	31.57

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

²Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

Table 2d. Summary of Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹ and Age Group

Age Group (Years)	Members with Diagnosis	Number of Diagnoses	Eligible Members ²	Eligible Member-Years ²	Members with Diagnosis per 10,000 Eligible Members
Hypertension Definition 1					
0-2	3,328	19,914	6,057,482	6,713,470.0	5.49
3-5	3,942	21,635	7,696,524	10,935,978.3	5.12
6-11	11,430	53,186	12,233,817	24,035,521.8	9.34
12-17	46,897	177,469	12,999,671	26,055,221.4	36.08
Hypertension Definition 2					
0-2	6,163	24,816	6,057,482	6,713,470.0	10.17
3-5	8,795	29,567	7,696,524	10,935,978.3	11.43
6-11	27,485	81,433	12,233,817	24,035,521.8	22.47
12-17	105,217	291,710	12,999,671	26,055,221.4	80.94

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

²Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

Table 2e. Summary of Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹ and Race²

Race	Members with Diagnosis	Number of Diagnoses	Eligible Members ³	Eligible Member-Years ³	Members with Diagnosis per 10,000 Eligible Members
Hypertension Definition 1					
American Indian or Alaska Native	110	488	43,137	148,169.9	25.50
Asian	1,037	5,484	495,238	2,060,604.9	20.94
Black or African American	3,218	15,355	642,100	2,455,299.5	50.12
Native Hawaiian or Other Pacific Islander	184	750	75,506	331,544.7	24.37
Unknown	49,526	211,918	22,607,402	53,582,719.4	21.91
White	8,288	38,209	2,630,313	9,161,853.2	31.51
Hypertension Definition 2					
American Indian or Alaska Native	252	778	43,137	148,169.9	58.42
Asian	1,989	7,641	495,238	2,060,604.9	40.16
Black or African American	6,928	23,295	642,100	2,455,299.5	107.90
Native Hawaiian or Other Pacific Islander	376	1,147	75,506	331,544.7	49.80
Unknown	114,122	336,186	22,607,402	53,582,719.4	50.48
White	18,193	58,479	2,630,313	9,161,853.2	69.17

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

²In the SDD, race information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

³Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

Table 2f. Summary of Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹ and Hispanic Ethnicity²

Hispanic Ethnicity	Members with Diagnosis	Number of Diagnoses	Eligible Members ³	Eligible Member-Years ³	Members with Diagnosis per 10,000 Eligible Members
Hypertension Definition 1					
Hispanic Ethnicity	1,924	9,398	752,086	2,971,821.2	25.58
Not Hispanic Ethnicity	7,280	34,105	1,510,928	5,704,653.1	48.18
Unknown	53,159	228,701	24,230,682	59,063,717.2	21.94
Hypertension Definition 2					
Hispanic Ethnicity	4,022	13,890	752,086	2,971,821.2	53.48
Not Hispanic Ethnicity	16,280	53,043	1,510,928	5,704,653.1	107.75
Unknown	121,558	360,593	24,230,682	59,063,717.2	50.17

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

²In the SDD, ethnicity information is not well populated and there are substantial proportions of "unknown" race and Hispanic indicator values. Specifically, two commercial Data Partners do not provide any race or ethnicity data.

³Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

Table 3a. Summary of Follow-Up Time for Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹

	Number of Diagnoses	Length of Follow-Up Time in Years				
		< 6 months	6 months - 1 year	1-2 years	3-4 years	5+ years
Hypertension Definition 1	272,204	36,074	36,018	54,918	41,825	103,369
Hypertension Definition 2	427,526	65,263	55,053	85,078	63,353	158,779

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

Table 3b. Descriptive Statistics of Follow-Up Time for Members with Pediatric Hypertension in the Sentinel Distributed Database (SDD) between January 1, 2008 and April 30, 2019, by Hypertension Definition¹

	Number of Diagnoses	Summary Statistics for Length of Follow-Up Time in Days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
Hypertension Definition 1	272,204	1.00	341.00	804.00	1,565.00	4,124.00	1,061.20	7,347.79
Hypertension Definition 2	427,526	1.00	317.00	776.00	1,538.00	4,128.00	1,038.23	9,231.19

¹Hypertension Definition 1: 2 outpatient claims within 183 days OR 1 inpatient claim

Hypertension Definition 2: Any hypertension claim

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
Combination	Two Diagnoses in the Outpatient Care Setting within 183 Days	Diagnosis	Combo	241,673	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9,327	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3,985	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3,885	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1,420	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1,063	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	940	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	586	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	429	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	346	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	319	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	239	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	226	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	217	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	185	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	166	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	147	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	142	IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	139	IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	132	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	127	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	122	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	112	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	111	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	107	IPS
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	98	IPS
401.1		Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	98	IPX
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	94	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	85	IPX
I10.		Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	85	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	83	IPX
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	79	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	77	IPS
405.99		Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension, unspecified				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	75	IPS
401.9		Diagnosis	ICD-9-CM		IPX
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	72	IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	71	IPS
401.9		Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	69	IPS
401.9		Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	67	IPS
112.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	67	IPS
110.		Diagnosis	ICD-10-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	65	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	62	IPX
115.0	Renovascular hypertension	Diagnosis	ICD-10-CM	59	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	58	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	57	IPX
401.9		Diagnosis	ICD-9-CM		IPX
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	53	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
197.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	53	IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	51	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	51	IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	49	IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	48	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	48	IPS
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	47	IPS
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	45	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	45	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	43	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	40	IPX
115.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	39	IPX
115.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	38	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	37	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	36	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	36	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	35	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	34	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	34	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	33	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	32	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	32	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	31	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	30	IPP
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	29	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	29	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	28	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	28	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	27	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	27	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	26	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	25	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	25	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	25	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	25	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	24	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	23	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	22	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	22	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	22	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	22	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	21	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	21	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	21	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	20	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	20	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	20	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	20	IPX
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	20	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	19	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	19	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	19	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	19	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	18	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	18	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	17	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	17	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	17	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	16	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	15	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	15	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	15	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	15	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	15	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	15	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	15	IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	14	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	14	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	14	IPX
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	14	IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	13	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic	Diagnosis	ICD-9-CM	13	IPP
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	12	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	12	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	12	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	12	IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	12	IPS
401.9	Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM	11	IPP
401.0		Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM	11	IPX
401.9		Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM	11	IPS
401.9		Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM	11	IPX
401.9		Diagnosis	ICD-9-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	11	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	11	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM	10	IPS
403.90		Diagnosis	ICD-9-CM		IPS
401.9		Diagnosis	ICD-9-CM		IPS
I15.1	Hypertension secondary to other renal disorders Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	10	IPS
I15.1		Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	10	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
	Other secondary hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	9	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	9	IPP
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	9	IPS
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	9	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	9	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	9	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	9	IPP
	unspecified				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	9	IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	9	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	9	IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	9	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	9	IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	9	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	9	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	9	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	8	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	8	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	8	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	8	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	8	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	8	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	8	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	8	IPP
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	7	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	7	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	7	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	7	IPX
401.9	malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	7	IPX
401.9	hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	7	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM	7	IPX
401.0	hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	7	IPX
403.90	unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	7	IPX
403.91	unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	7	IPS
I10.	disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	7	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	7	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	7	IPX
I10.	disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	7	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	7	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	7	IPS
I15.8	unspecified Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	7	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	6	IPX
401.9	unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	6	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	6	IPS
401.9	benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	6	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	6	IPP
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	6	IPS
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	6	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	6	IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	6	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	6	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	6	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	6	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	6	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	6	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	6	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	6	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	6	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	6	IPP
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	6	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	6	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	5	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	5	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	5	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPS
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
404.93	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	5	IPS
	kidney disease, unspecified, with				
	heart failure and chronic kidney				
	disease stage V or end stage				
	renal disease				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	5	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	5	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	5	IPP
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	5	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension,				
	benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	5	IPP
	hypertension, unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	5	IPX
	unspecified				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	5	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
997.91	Hypertension	Diagnosis	ICD-9-CM	5	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	5	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	5	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	5	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	5	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	5	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	5	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	5	IPS
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	4	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	4	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	4	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	4	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	4	IPS
401.1	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	4	IPX
401.9	kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	4	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	4	IPX
401.9	hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	4	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	4	IPX
401.9	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	4	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	4	IPX
401.0	hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	4	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	4	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	4	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	4	IPX
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	4	IPX
I10.	without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	4	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	4	IPS
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	4	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPP
I10.		Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPX
I10.		Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPP
I10.		Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPS
I15.1		Diagnosis	ICD-10-CM		IPX
I10.		Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPS
I10.		Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified Other secondary hypertension Other secondary hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPX
I15.8		Diagnosis	ICD-10-CM		IPS
I15.8		Diagnosis	ICD-10-CM		IPX
I10.		Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	IPS
I15.9		Diagnosis	ICD-10-CM		IPX
I10.		Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	4	IPX
I11.9		Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	4	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	4	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	4	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	4	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	4	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	IPP
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPP
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	3	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.9	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	3	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	3	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	3	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
404.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	3	IPS
	kidney disease, unspecified, with				
	heart failure and with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	3	IPS
401.9	disease without heart failure	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	3	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
403.90	unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
403.91	unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	3	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	3	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	IPS
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	3	IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	IPP
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	3	IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPS
	Renovascular hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
	Renovascular hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
	renal disorders				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
	renal disorders				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
	unspecified				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	3	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	3	IPS
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	3	IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPX
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPX
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.1	hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage V or end stage renal disease Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
401.1	disease, unspecified, with chronic kidney disease stage V or end stage renal disease Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
404.1	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	IPP
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	2	IPS
401.9	kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPP
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	unspecified Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
	benign				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
	benign				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPP
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
405.01	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
402.10	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.10	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular				
	hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.90	malignant	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPP
	benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPP
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	2	IPP
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
	unspecified chronic kidney disease Essential (primary) hypertension Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I11.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPS
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPP
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I10.	renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	2	IPP
I10.	without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	2	IPX
I12.0	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPP
I10.	renal disorders Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.2	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	2	IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPP
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPS
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	2	IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	2	IPX
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPP
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPP
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	2	IPP
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPP
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
403.11	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	IPP
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.09		Diagnosis	ICD-9-CM		IPX
404.90	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
404.00		Diagnosis	ICD-9-CM		IPS
402.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
401.9	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
401.1	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
	Essential hypertension, benign				
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
402.00	Malignant hypertensive heart	Diagnosis	ICD-9-CM	1	IPS
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.0	hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.01	malignant	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.1	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential	Diagnosis	ICD-9-CM		
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
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405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
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405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	unspecified	Diagnosis	ICD-9-CM		IPS
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404.01	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, malignant, with	Diagnosis	ICD-9-CM		IPS
401.0	heart failure and with chronic	Diagnosis	ICD-9-CM		IPP
	kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, malignant				
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404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPP
403.01	kidney disease, malignant, without	Diagnosis	ICD-9-CM		IPS
401.9	heart failure and with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, malignant, with chronic				
	kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
<hr/>					
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPS
401.9	kidney disease, malignant, without	Diagnosis	ICD-9-CM		IPS
401.0	heart failure and with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
404.12	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		IPX
403.91	kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
404.02	hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.00	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		
	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.0	Essential hypertension, malignant				
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
403.90	kidney disease, malignant, without	Diagnosis	ICD-9-CM		IPS
401.9	heart failure and with chronic	Diagnosis	ICD-9-CM		IPS
401.1	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, benign				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.11	benign	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		
401.1	hypertension, malignant				
401.0	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9		Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9		Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign				IPX
401.0	Essential hypertension, malignant				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9		Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
404.90	Hypertensive heart and chronic kidney disease, unspecified,	Diagnosis	ICD-9-CM	1	IPX
401.9	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.90	Hypertensive heart and chronic kidney disease, unspecified,	Diagnosis	ICD-9-CM	1	IPX
401.9	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPS
401.9	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
401.0	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.1	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.1	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.90	malignant	Diagnosis	ICD-9-CM		IPS
402.01	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
402.00	disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Malignant hypertensive heart	Diagnosis	ICD-9-CM		
401.1	disease with heart failure				
401.0	Malignant hypertensive heart				
	disease without heart failure				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0		Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.90		Diagnosis	ICD-9-CM		IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0		Diagnosis	ICD-9-CM		
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.10	unspecified	Diagnosis	ICD-9-CM		IPX
402.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		
	stage IV, or unspecified				
	Benign hypertensive heart				
	disease without heart failure				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.01	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
	Essential hypertension, malignant				
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
<hr/>					
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
402.01	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.9	Malignant hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.1	disease with heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
<hr/>					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	malignant	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
401.1	malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		
401.1	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	unspecified	Diagnosis	ICD-9-CM		
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.10	unspecified	Diagnosis	ICD-9-CM		
401.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.1	unspecified	Diagnosis	ICD-9-CM		
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM		
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
402.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Malignant hypertensive heart disease with heart failure				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Unspecified hypertensive heart disease without heart failure				
	Essential hypertension, benign				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.1	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Essential hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.1	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.1	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
404.11		Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
405.01	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	benign	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
402.00	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
403.91	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPS
403.91	without heart failure and with	Diagnosis	ICD-9-CM		IPX
401.9	chronic kidney disease stage I	Diagnosis	ICD-9-CM		IPX
	through stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
404.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
404.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
403.90	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPS
401.9	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.91		Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
404.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPS
401.9	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
404.90	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.9	benign	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPS
401.0	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
401.9	kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.93	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPP
403.91	kidney disease, unspecified, with	Diagnosis	ICD-9-CM		IPS
403.90	heart failure and chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease stage V or end stage	Diagnosis	ICD-9-CM		IPS
401.9	renal disease	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Unspecified essential				
	hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.9	Unspecified secondary	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.10	hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
403.90		Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9		Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Unspecified essential hypertension				
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
402.91	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive heart disease,				
	unspecified, with heart failure				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.90	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
402.00	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Malignant hypertensive heart				
	disease without heart failure				
	Unspecified essential				
	hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.01	malignant	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
	hypertension, malignant				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.11	benign	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPS
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	benign	Diagnosis	ICD-9-CM		IPS
	Other secondary hypertension, malignant				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.09	unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.0	malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.11	benign	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
	hypertension, benign				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
	hypertension, benign				
	Unspecified essential hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
Essential hypertension, malignant					
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.0	benign	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
Essential hypertension, malignant					
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.91	benign	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
Essential hypertension, malignant					

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91		Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.00	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
401.9		Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.0	unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
403.01	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.0	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
115.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
110.	renal disorders	Diagnosis	ICD-10-CM		IPS
405.99	Essential (primary) hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
402.00	Malignant hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified, with heart failure	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
401.0	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPS
401.0	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
404.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPS
403.91	kidney disease, unspecified, with	Diagnosis	ICD-9-CM		IPP
	heart failure and with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.91		Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.91		Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPP
403.91	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPX
403.10	without heart failure and with	Diagnosis	ICD-9-CM		IPX
401.9	chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
404.92	benign	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.0	hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, benign				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.10	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Benign hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.0	disease without heart failure	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart				
	disease without heart failure				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.19	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.99	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.99	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Malignant hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.0	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
115.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
115.1	unspecified	Diagnosis	ICD-10-CM		IPS
110.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
401.9	renal disorders	Diagnosis	ICD-9-CM		IPX
	Essential (primary) hypertension				
	Unspecified essential hypertension				
402.00	Malignant hypertensive heart	Diagnosis	ICD-9-CM	1	IPP
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
402.11	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease with heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.01	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.0	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, malignant				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.0	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, malignant				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
402.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
	disease without heart failure				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	malignant	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
405.11	benign	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		
401.9	Secondary renovascular				
401.0	hypertension, malignant				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, malignant				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, malignant				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		
	hypertension, malignant				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPP
401.9	malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPX
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPP
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
	malignant				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
403.00	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
	disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.0	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.10	benign	Diagnosis	ICD-9-CM		IPX
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.99	unspecified	Diagnosis	ICD-9-CM		IPS
405.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.9	hypertension, unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
115.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
405.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
402.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.0	disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
405.99	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.10	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.0	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
405.99	Essential (primary) hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
	disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPP
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
401.9	stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
403.90	stage 4 chronic kidney disease, or	Diagnosis	ICD-9-CM		IPS
401.9	unspecified chronic kidney disease Essential (primary) hypertension Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
402.00	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.9	Malignant hypertensive heart disease without heart failure Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.00	Malignant hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	IPX
402.90	unspecified, with heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
402.91	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive heart disease, unspecified, with heart failure				
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.00	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPS
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.90	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPP
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, malignant				
	Essential hypertension, malignant				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.10	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular				
	hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
405.91	unspecified	Diagnosis	ICD-9-CM		
405.01	Secondary renovascular				
401.0	hypertension, unspecified				
	Secondary renovascular				
	hypertension, malignant				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
	hypertension, malignant				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.09	malignant	Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension,				
	malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.09	malignant	Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension,				
	malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPS
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
	benign				
	Other secondary hypertension,				
	malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.0	malignant	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	malignant	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.09		Diagnosis	ICD-9-CM		IPX
401.0	Other secondary hypertension, malignant Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
405.19		Diagnosis	ICD-9-CM		IPX
401.0	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.19	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Other secondary hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19		Diagnosis	ICD-9-CM		IPS
	Other secondary hypertension, benign				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
403.10		Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
403.91		Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.19	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension, benign				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.19	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
402.00	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Malignant hypertensive heart disease without heart failure				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.19	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
403.91	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.0	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	benign Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular hypertension, unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.11	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.11	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension, unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension, unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension, unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
115.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
405.99	unspecified Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.11	unspecified	Diagnosis	ICD-9-CM		IPX
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	unspecified	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
115.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
115.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I11.0	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPP
I10.	heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPP
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	1	IPS
I10.	heart failure	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPX
I10.	heart failure	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPP
	disease with stage 1 through				
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.0	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I12.9	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		IPX
	disease				
	Hypertensive chronic kidney				
	disease with stage 1 through				
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		
I12.0	disease with stage 1 through				
I10.	stage 4 chronic kidney disease, or				
I10.	unspecified chronic kidney				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I12.0	disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		IPX
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPP
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Essential (primary) hypertension				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.2	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to	Diagnosis	ICD-10-CM		IPS
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension				
I10.	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I13.11	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive heart and chronic	Diagnosis	ICD-10-CM		IPS
I11.9	kidney disease with heart failure	Diagnosis	ICD-10-CM		
I10.	and with stage 5 chronic kidney				
	disease, or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Hypertensive heart disease				
	without heart failure				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I12.0	disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPS
	kidney disease or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I12.0	disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		IPS
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		
I12.9	Renovascular hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I10.	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8		Diagnosis	ICD-10-CM		IPS
I12.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1		Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I12.9	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 1 through				
	stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 1 through				
	stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
	stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9		Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM		IPX
I10.	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I13.2	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPP
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPP
I15.8	unspecified	Diagnosis	ICD-10-CM		IPP
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		
I11.0	Other secondary hypertension				
I10.	Hypertensive heart disease with heart failure				
I10.	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM		IPP
I13.11	and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		
I12.9	renal disorders				
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM		IPX
I12.9	and stage 1 through stage 4	Diagnosis	ICD-10-CM		IPP
I10.	chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		
I10.	renal disorders				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	1	IPP
I10.	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		
I10.	Renovascular hypertension				
I10.	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Secondary hypertension, unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPP
I10.	heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	1	IPS
I11.0	heart failure	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart disease with heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPS
I11.0	heart failure	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart disease with heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPS
I10.	heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I11.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I11.9		Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I12.9	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I11.9	failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I10.	disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive heart disease without heart failure				
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I11.9		Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I10.		Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I10.		Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	IPX
I10.	without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I11.9	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPX
I10.	kidney disease or end stage renal	Diagnosis	ICD-10-CM		IPX
	disease				
	Hypertensive heart disease				
	without heart failure				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I11.9	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
	unspecified chronic kidney				
	disease				
	Hypertensive heart disease				
	without heart failure				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		IPX
I10.	without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I11.9	unspecified	Diagnosis	ICD-10-CM		
I10.	Hypertensive heart disease				
	without heart failure				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPX
	kidney disease or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I13.10	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive heart and chronic	Diagnosis	ICD-10-CM		IPP
I10.	kidney disease without heart	Diagnosis	ICD-10-CM		IPX
	failure, with stage 5 chronic kidney				
	disease, or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPP
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPX
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPP
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPX
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I12.0	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPS
I12.0	kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I12.0	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPX
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease				IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.0		Diagnosis	ICD-10-CM		IPX
I12.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I12.0		Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I12.0		Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I13.10		Diagnosis	ICD-10-CM		IPS
I13.0	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.11		Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I13.11		Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPP
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1		Diagnosis	ICD-10-CM		IPS
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8		Diagnosis	ICD-10-CM		IPX
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Renovascular hypertension				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Renovascular hypertension				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Renovascular hypertension				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.2	unspecified	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM		IPX
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPX
	Hypertension secondary to endocrine disorders Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM		IPS
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.2	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM		IPX
I10.	endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		
	Essential (primary) hypertension				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPP
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPP
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	IPS
I11.0	without heart failure	Diagnosis	ICD-10-CM		IPS
	Hypertensive heart disease with heart failure				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPX
I11.0	disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive heart disease with heart failure				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8		Diagnosis	ICD-10-CM		IPS
I11.9	Other secondary hypertension Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I11.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive heart disease without heart failure				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I12.0	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	1	IPX
I12.0	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM	1	IPS
I12.0	and with stage 5 chronic kidney disease, or end stage renal disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1		Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.0	Renovascular hypertension Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8		Diagnosis	ICD-10-CM		IPS
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertension secondary to other renal disorders Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.1		Diagnosis	ICD-10-CM		IPS
I12.0	Hypertension secondary to other renal disorders Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.0	unspecified Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.0	unspecified Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.0	unspecified Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPP
I12.9	stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
I12.9	stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
	Other secondary hypertension				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I12.9	unspecified Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertension secondary to other renal disorders				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
	unspecified				
	Hypertension secondary to other renal disorders				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.2	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
	Hypertension secondary to endocrine disorders				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.2	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertension secondary to endocrine disorders				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPP
	Other secondary hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	IPS
N26.2	Page kidney	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	IPS
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	IPX
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	IPS
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPP
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.01	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.01	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.01	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX

Table 4a. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 1 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX

*Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	134,883	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	67,057	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	39,849	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	17,936	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	12,182	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	10,798	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	10,658	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9,327	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	5,633	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	5,401	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	5,321	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4,718	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3,985	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3,901	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3,885	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	3,409	OA
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3,329	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3,317	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2,921	AV
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	2,723	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2,604	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2,439	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2,182	Ambulatory Visit
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		(AV) OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1,920	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1,868	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1,818	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1,638	AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1,590	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1,574	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1,446	EDS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1,427	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1,420	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1,404	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1,344	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1,218	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1,182	AV
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1,117	OA
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1,070	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1,068	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1,063	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	945	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	940	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	826	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	771	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	731	AV
401	Essential hypertension	Diagnosis	ICD-9-CM	662	AV
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	643	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	586	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	577	AV
997.91	Hypertension	Diagnosis	ICD-9-CM	568	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	556	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	543	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	535	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	528	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	523	EDS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	462	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	448	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	439	OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	437	AV
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	429	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	424	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	407	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	389	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	355	AV
997.91	Hypertension	Diagnosis	ICD-9-CM	353	OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	346	IPS
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	343	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	339	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	336	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	334	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	324	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	319	IPS
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	311	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	299	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	291	OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	257	OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	250	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	246	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	244	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	239	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	239	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	237	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	237	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	230	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	229	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	228	ED
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	226	IPX
115.0	Renovascular hypertension	Diagnosis	ICD-10-CM	220	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	217	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	215	OA
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	213	AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	211	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	197	ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	194	AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	189	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	187	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	187	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	185	IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	183	ED
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	183	OA
404	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	181	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	180	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	178	OA
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	178	OA
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	173	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	168	OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	166	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	166	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	164	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	163	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	160	ISS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	158	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	151	OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	149	OA
997.91	Hypertension	Diagnosis	ICD-9-CM	147	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	147	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	142	IPP
405.99	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM	139	IPS
401.9		Diagnosis	ICD-9-CM		IPX
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	137	AV
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	135	AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	132	AV
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	132	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	131	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	127	IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	126	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	125	ISX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	122	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	120	ISS
I11.9	Hypertensive heart disease without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM	120	AV
I10.		Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	120	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	116	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	114	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	113	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	112	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	111	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	111	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	111	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	110	ED
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	107	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	105	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	102	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	100	EDS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	98	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	98	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	95	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	94	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	85	AV
405.99	unspecified	Diagnosis	ICD-9-CM		OA
	Other secondary hypertension, unspecified				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	85	IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	85	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	83	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	83	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
	Other secondary hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	83	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	82	AV
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	82	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	81	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	80	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	79	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	78	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	77	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	77	IPS
405.99		Diagnosis	ICD-9-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	76	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	76	AV
401.9		Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	75	IPS
401.9		Diagnosis	ICD-9-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	74	AV
I12.9		Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	73	AV
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	73	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	72	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	71	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	71	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	71	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	70	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	69	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	69	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	69	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	69	ED
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	68	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	67	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	67	IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	66	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	65	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	65	OA
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	64	AV
I10.		Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	62	IPX
403	Hypertensive chronic kidney disease	Diagnosis	ICD-9-CM	61	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	60	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	60	OA
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	59	IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	58	OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	58	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	57	IPX
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	56	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	55	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	54	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	53	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	53	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	53	IPX
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	53	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	53	AV
404	Hypertensive heart and chronic kidney disease	Diagnosis	ICD-9-CM	53	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	52	AV
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	52	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	51	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	51	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	51	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	50	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	49	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	49	ISX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	49	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	49	ED
401.1	hypertension	Diagnosis	ICD-9-CM		ED
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	49	EDS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	48	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	48	IPS
404.1	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	48	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	47	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	47	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	46	ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM	46	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	45	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	45	IPP
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	44	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	43	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	43	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	42	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	42	ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	42	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	41	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	41	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	40	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	40	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	40	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	40	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	39	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	39	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	39	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	38	IPS
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	38	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	38	OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	37	AV
I12.9	unspecified Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	37	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	37	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	37	AV
403.90	unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	37	EDP
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	37	OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	36	AV
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	36	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	36	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	36	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	35	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	34	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	34	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	34	ED
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	33	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	33	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	33	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	33	AV
401.0	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	33	AV
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	33	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.9	hypertension				
	Unspecified essential hypertension				
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	32	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	32	IPS
I12.9	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	32	OA
I12.9	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	32	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	32	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	31	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	31	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	31	OA
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	31	AV
405.91	unspecified	Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	30	ED
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	30	OA
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	30	IPP
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM	30	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	29	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	29	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	29	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	29	OA
404	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	29	AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	29	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	29	AV
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, benign				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	29	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	28	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	28	ED
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	28	IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM	28	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	28	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	27	AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	27	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	27	IPS
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	27	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	27	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	26	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	26	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	26	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	26	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
402	Hypertensive heart disease	Diagnosis	ICD-9-CM	26	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	25	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	25	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	25	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	25	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	25	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	25	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	25	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	25	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	25	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	24	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	24	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	24	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	24	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	24	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	24	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	24	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	24	AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	23	ED
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	23	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	23	ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	23	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	23	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	23	ISX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	23	EDS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	23	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	22	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	22	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	22	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	22	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	22	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	22	EDS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	22	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	22	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	22	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	21	AV
997.91	Hypertension	Diagnosis	ICD-9-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	21	EDP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	21	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	21	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	21	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	21	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	21	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	21	IPX
401.9	benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	21	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	21	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	20	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	20	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	20	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	20	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	20	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	20	IPX
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	20	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	20	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	19	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	19	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	19	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	19	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	19	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	19	EDS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	19	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	19	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	19	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	19	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	19	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	18	OA
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	18	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	18	ED
I10.		Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	18	AV
I10.		Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	18	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	18	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
402	Malignant hypertensive heart disease	Diagnosis	ICD-9-CM	18	AV
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	18	OA
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	18	OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	18	ED
403.91		Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	18	OA
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	18	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	17	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	17	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	17	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	17	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	17	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	17	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	17	AV
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	17	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	16	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	16	IPX
I15.9	Secondary hypertension, unspecified Renovascular hypertension	Diagnosis	ICD-10-CM	16	AV
I15.0		Diagnosis	ICD-10-CM		AV
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	16	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	16	AV
402.10		Diagnosis	ICD-9-CM		OA
402.90	Unspecified hypertensive heart disease without heart failure Unspecified essential hypertension	Diagnosis	ICD-9-CM	16	AV
401.9		Diagnosis	ICD-9-CM		AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM	16	AV
401.9		Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign Essential hypertension, benign	Diagnosis	ICD-9-CM	16	AV
401.1		Diagnosis	ICD-9-CM		AV
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	16	AV
405.19	Other secondary hypertension, benign Other secondary hypertension, benign	Diagnosis	ICD-9-CM	16	AV
405.19		Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	16	ED
405.99		Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified Essential hypertension, benign	Diagnosis	ICD-9-CM	15	OA
401.1		Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	15	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	15	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	15	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	15	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	15	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	15	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	15	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	15	ED
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	15	AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	15	IPX
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	15	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	15	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	15	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	15	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	15	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	14	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	14	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	14	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	14	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
401	Essential hypertension	Diagnosis	ICD-9-CM	14	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	14	AV
401.9		Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	14	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	14	OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	14	AV
403.91		Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	14	AV
401.1		Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	14	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	14	EDS
401.9		Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	14	AV
401.9		Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	14	OA
401.9		Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	14	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	13	AV
I10.		Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	13	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	13	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	13	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	13	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	13	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	13	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	13	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	13	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	13	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	13	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	13	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	12	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	12	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	12	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	12	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	12	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	12	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	12	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	12	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	12	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	12	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	12	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	12	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	12	AV
401.0	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	12	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	12	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	12	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	12	AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	12	OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	12	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	12	ISP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	12	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	11	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	11	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	11	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	11	OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	11	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	11	ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	11	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	11	IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	11	ED
403.9	Hypertensive chronic kidney disease, unspecified	Diagnosis	ICD-9-CM	11	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	11	AV
403.9	Hypertensive chronic kidney disease, unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	11	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	11	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	11	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404	Hypertensive heart and chronic kidney disease, malignant	Diagnosis	ICD-9-CM	11	AV
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	11	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	11	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	11	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	11	ED
401.9		Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	11	OA
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	11	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	11	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	11	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	10	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	10	AV
I10.		Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	10	OA
I10.		Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	10	OA
I10.		Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	10	AV
I10.		Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	10	EDS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	10	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	10	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	10	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	10	ISX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	10	OA
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	10	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	10	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		OA
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	10	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	10	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	10	AV
403.90	benign	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	10	OA
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	10	ISS
401.9	Unspecified essential	Diagnosis	ICD-9-CM	10	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	10	ISS
401.9	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	10	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	10	AV
401.9	unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	10	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	9	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	9	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	9	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	9	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	9	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	9	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	9	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	9	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	9	AV
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	9	AV
I12.9	disease with stage 1 through	Diagnosis	ICD-10-CM		OA
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	9	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	9	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	9	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	9	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	9	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	9	ED
N26.2	Page kidney	Diagnosis	ICD-10-CM	9	OA
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	9	IPX
401.9	disease without heart failure Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	9	OA
401.0	hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	9	AV
403.11	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9	IPP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	9	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	9	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	9	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	9	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	9	AV
401.9	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM	9	AV
401.1		Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	9	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	9	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	9	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	9	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	9	IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	8	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	8	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	8	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	8	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	8	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	8	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	8	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	8	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	8	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	8	OA
I10.	renal disorders	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	8	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	8	IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
	Renovascular hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	8	AV
	unspecified				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	8	AV
I15.9	unspecified	Diagnosis	ICD-10-CM		OA
	Secondary hypertension,				
	unspecified				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	8	OA
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	8	OA
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	8	IPP
402.11	Benign hypertensive heart	Diagnosis	ICD-9-CM	8	AV
401.1	disease with heart failure	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	8	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	8	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	8	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	8	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	8	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	8	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	8	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	8	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	8	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	8	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	8	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	7	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	7	OA
997.91	Hypertension	Diagnosis	ICD-9-CM	7	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	7	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	7	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	7	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	7	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	7	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	7	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	7	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	7	ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	7	ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	7	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	7	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	7	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	7	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	7	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	7	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	7	AV
I12.9	unspecified	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	7	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
	Other secondary hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	7	OA
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
	Other secondary hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	7	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPP
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	7	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, malignant				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	7	IPS
	unspecified, with heart failure				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	7	AV
401.9	unspecified, with heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
403	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	7	AV
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	7	AV
401.0	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
403.1	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	7	AV
	disease, benign				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	7	AV
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	7	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	7	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	7	ISP
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	7	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	7	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	7	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	7	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	7	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	7	IPX
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	7	IPX
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
404.1	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	7	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	7	EDS
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	7	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	7	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	7	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	7	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	7	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	7	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	7	AV
405.11		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	7	ED
402	Hypertensive heart disease	Diagnosis	ICD-9-CM	6	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	6	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	6	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	6	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	6	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	6	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	6	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	6	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	6	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	6	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	6	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	6	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	6	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	6	IPP
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	6	ED
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	6	AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	6	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	6	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	6	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	6	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	6	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	6	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	6	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	6	IPP
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	6	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	6	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	6	OA
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	6	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	6	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	6	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	6	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	6	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	6	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	6	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	6	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	6	IPS
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	6	IPS
405.99		Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	6	IPS
405.91		Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	6	IPP
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	6	AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	6	AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	6	OA
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	6	IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	6	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	5	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	5	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	5	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	5	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	5	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	5	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	5	AV
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		AV
I10.	unspecified chronic kidney disease Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		AV
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	5	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	5	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	5	IPS
I12.0	stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	5	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	5	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	5	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	5	OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	5	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	5	EDS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	5	IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	5	AV
N26.2	Page kidney	Diagnosis	ICD-10-CM	5	AV
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	5	OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	5	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	ED
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	5	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	5	ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	EDS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPX
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	5	AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	ISS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	5	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	AV
401.9		Diagnosis	ICD-9-CM		AV
403.90	Unspecified essential hypertension	Diagnosis	ICD-9-CM	5	OA
401.9		Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	5	IPX
403.91		Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	AV
401.1		Diagnosis	ICD-9-CM		AV
405.99	Essential hypertension, benign	Diagnosis	ICD-9-CM	5	AV
401.1		Diagnosis	ICD-9-CM		AV
405.99	Essential hypertension, benign	Diagnosis	ICD-9-CM	5	AV
401.9		Diagnosis	ICD-9-CM		AV
401.1	Diagnosis	ICD-9-CM	AV		
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	5	IPX
401.9		Diagnosis	ICD-9-CM		IPX
405.91	Unspecified essential hypertension	Diagnosis	ICD-9-CM	5	IPP
401.9		Diagnosis	ICD-9-CM		IPX
405.91	Unspecified essential hypertension	Diagnosis	ICD-9-CM	5	IPP
401.9		Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	5	IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	5	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	5	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	5	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	5	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	5	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	5	IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	5	ISS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	5	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	5	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	4	OA
403.90	unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
997.91	Hypertension	Diagnosis	ICD-9-CM	4	IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	4	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
997.91	Hypertension	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	4	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	4	IPS
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	4	IPX
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	4	IPX
I10.	without heart failure	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
Essential (primary) hypertension					
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	4	IPX
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPS
Essential (primary) hypertension					
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	4	IPS
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
	stage 4 chronic kidney disease, or unspecified chronic kidney disease				
Essential (primary) hypertension					
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	4	IPS
I10.	heart failure	Diagnosis	ICD-10-CM		IPX
Essential (primary) hypertension					
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	4	IPP
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
	stage 4 chronic kidney disease, or unspecified chronic kidney disease				
Essential (primary) hypertension					
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	4	IPX
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
	stage 4 chronic kidney disease, or unspecified chronic kidney disease				
Essential (primary) hypertension					

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	4	IPP
I10.	renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	4	IPS
I10.	endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Secondary hypertension, unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	ED
I10.	unspecified	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	4	ED
I10.	disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	4	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	AV
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	OA
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	4	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	4	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	4	AV
I15.2	endocrine disorders	Diagnosis	ICD-10-CM		OA
I10.	Hypertension secondary to	Diagnosis	ICD-10-CM		AV
I10.	endocrine disorders Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	AV
I10.	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	AV
I15.9	unspecified	Diagnosis	ICD-10-CM		OA
I10.	Secondary hypertension,	Diagnosis	ICD-10-CM		AV
I10.	unspecified	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	4	AV
I11.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive heart disease without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	4	AV
I10.	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I13.2	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	4	AV
I10.	kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	4	IPX
I11.9	renal disorders	Diagnosis	ICD-10-CM		
	Hypertensive heart disease without heart failure				
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	4	ED
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		
	Hypertensive heart disease without heart failure				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	4	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	4	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	4	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	4	ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	4	ISS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	4	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	4	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	4	OA
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	4	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	4	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	4	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	4	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	4	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	4	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	4	EDS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	4	ISS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	4	ED
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	4	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	4	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	4	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	4	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	4	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	4	EDS
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPP
403	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	ED
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	AV
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	4	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	4	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	EDS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		EDS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	4	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ISP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	4	ISS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	ISS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ISX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	ISS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	EDS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	4	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	4	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	4	IPX
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM	4	OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	EDS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	4	ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	4	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	OA
401.9	unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	AV
405.99	unspecified	Diagnosis	ICD-9-CM		OA
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		OA
	unspecified				
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
	unspecified				
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	3	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
997.91	Hypertension	Diagnosis	ICD-9-CM	3	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	3	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	3	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	3	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	3	IPS
I10.	without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I13.0	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM	3	IPS
I10.	and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	ISP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	EDP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	EDS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	3	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	3	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	3	AV
I10.	endocrine disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	AV
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.0	unspecified	Diagnosis	ICD-10-CM		AV
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I12.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.1	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	AV
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	AV
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	OA
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.1	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	OA
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	ED
I10.	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	3	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	3	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	3	IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	3	OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	3	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	3	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I12.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	3	OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	3	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
	Renovascular hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	3	OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	3	AV
I15.0	renal disorders	Diagnosis	ICD-10-CM		AV
	Renovascular hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
	renal disorders				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
	renal disorders				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	3	ED
I15.1	renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertension secondary to other				
	renal disorders				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.1	unspecified	Diagnosis	ICD-10-CM		AV
	Hypertension secondary to other				
	renal disorders				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.1	unspecified	Diagnosis	ICD-10-CM		AV
	Hypertension secondary to other				
	renal disorders				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	3	AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		AV
	renal disorders				
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	3	ED
	endocrine disorders				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	ED
I15.8	unspecified	Diagnosis	ICD-10-CM		ED
	Other secondary hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
	Other secondary hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	3	OA
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
	unspecified				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	ISX
	unspecified				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	3	AV
I15.9	unspecified	Diagnosis	ICD-10-CM		OA
	Secondary hypertension,				
	unspecified				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	3	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	3	AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	3	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	ISS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	3	ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	AV
401.	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension				
402.1	Benign hypertensive heart	Diagnosis	ICD-9-CM	3	AV
	disease				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	3	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	3	AV
401.1	disease without heart failure	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	3	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	AV
402.10	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Benign hypertensive heart	Diagnosis	ICD-9-CM		AV
	disease without heart failure				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	3	AV
402.10		Diagnosis	ICD-9-CM		AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	3	OA
401.1		Diagnosis	ICD-9-CM		OA
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	3	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	IPX
401.0		Diagnosis	ICD-9-CM		IPP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	3	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
401.9		Diagnosis	ICD-9-CM		IPS
401.0		Diagnosis	ICD-9-CM		IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	IPS
401.0		Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	IPS
401.1		Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
401.0		Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
401.9		Diagnosis	ICD-9-CM		IPX
401.0		Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	3	IPS
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	3	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	3	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				
403	Hypertensive chronic kidney disease, malignant	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Unspecified essential	Diagnosis	ICD-9-CM		ED
	hypertension				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	OA
403.00	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPS
403.01	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	3	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	3	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPS
403.11	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	AV
403.11	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	AV
403.11	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Essential hypertension, benign	Diagnosis	ICD-9-CM		
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	3	IPX
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPS
401.9	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	IPX
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	3	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	EDS
403.90	unspecified	Diagnosis	ICD-9-CM		EDS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	ED
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		ED
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	AV
401.1	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	3	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	3	AV
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
403.90		Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
403.90		Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	IPX
403.91		Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPX
403.91		Diagnosis	ICD-9-CM		IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
403.91		Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	ED
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	AV
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
401.9	kidney disease stage V or end stage renal disease Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	3	AV
403.91	kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	3	OA
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	3	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	AV
401.1	hypertension	Diagnosis	ICD-9-CM		ED
401.1	Essential hypertension, benign Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	OA
401.1	hypertension	Diagnosis	ICD-9-CM		AV
Essential hypertension, benign					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	ISS
401.1	hypertension	Diagnosis	ICD-9-CM		AV
Essential hypertension, benign					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	ED
401.9	hypertension	Diagnosis	ICD-9-CM		OA
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
Essential hypertension, benign					
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	AV
401.1	malignant	Diagnosis	ICD-9-CM		AV
Essential hypertension, benign					
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	3	AV
401.1	hypertension, benign	Diagnosis	ICD-9-CM		AV
Essential hypertension, benign					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
Essential hypertension, benign					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	ED
401.1	hypertension	Diagnosis	ICD-9-CM		OA
Essential hypertension, benign					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.1	hypertension	Diagnosis	ICD-9-CM		OA
Essential hypertension, benign					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	AV
401.1	unspecified	Diagnosis	ICD-9-CM		OA
Essential hypertension, benign					
401.9	Unspecified essential	Diagnosis	ICD-9-CM	3	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
Unspecified essential hypertension					
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	3	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
Unspecified essential hypertension					

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.19		Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.91		Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
405.91		Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	ISP
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	ISS
401.9		Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	EDS
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	EDS
401.9		Diagnosis	ICD-9-CM		EDS
	Unspecified essential hypertension				
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	ED
401.9		Diagnosis	ICD-9-CM		AV
401.9		Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
401.9		Diagnosis	ICD-9-CM		ED
401.9		Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	AV
404.90		Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	IPS
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	3	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	3	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	3	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	OA
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	ED
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405	Secondary hypertension	Diagnosis	ICD-9-CM	3	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	3	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
405.01		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, malignant				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
405.09		Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension, malignant				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	3	AV
405.09		Diagnosis	ICD-9-CM		OA
	Other secondary hypertension, malignant				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
405.09		Diagnosis	ICD-9-CM		AV
	Other secondary hypertension, malignant				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	EDS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	ED
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	3	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPX
405.91		Diagnosis	ICD-9-CM		IPS
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPS
405.91		Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	AV
405.91		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	3	IPP
405.99		Diagnosis	ICD-9-CM		IPX
	Other secondary hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	OA
405.99		Diagnosis	ICD-9-CM		AV
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	OA
405.91		Diagnosis	ICD-9-CM		OA
	Secondary renovascular hypertension, unspecified				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPP
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	2	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	2	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	2	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	2	IPP
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
	unspecified chronic kidney disease Essential (primary) hypertension Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I11.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	2	IPS
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPP
I10.	unspecified	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	2	IPP
I10.	without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	2	IPX
I12.0	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
	unspecified chronic kidney disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPP
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.2	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	2	IPX
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Other secondary hypertension				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	ISP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	ISS
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	2	ISX
I10.	without heart failure	Diagnosis	ICD-10-CM		ISS
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	AV
I10.	unspecified	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	2	ED
I10.	heart failure	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	2	ED
I10.	without heart failure	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	2	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	2	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	AV
I15.9	unspecified	Diagnosis	ICD-10-CM		OA
I10.	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	2	AV
I11.9	without heart failure	Diagnosis	ICD-10-CM		OA
I10.	Hypertensive heart disease	Diagnosis	ICD-10-CM		AV
I10.	without heart failure	Diagnosis	ICD-10-CM	OA	
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	AV
I10.	renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	2	OA
I10.	endocrine disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	AV
I10.	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	OA
I10.	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	2	OA
I10.	heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I13.11	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	2	OA
I10.	kidney disease with heart failure	Diagnosis	ICD-10-CM		AV
	and with stage 5 chronic kidney disease, or end stage renal disease				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I15.1	renal disorders	Diagnosis	ICD-10-CM		OA
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	2	AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	2	ISX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	2	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	AV
I13.10	unspecified	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		AV
	Hypertensive heart disease without heart failure				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	OA
I11.9	renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive heart disease without heart failure				
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	2	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPS
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	2	ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPX
I12.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	ISS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	AV
I12.9	renal disorders	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	2	AV
I15.0	renal disorders	Diagnosis	ICD-10-CM		AV
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I15.1	unspecified	Diagnosis	ICD-10-CM		AV
I12.9	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPP
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPS
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPS
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	2	IPP
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	2	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	2	AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I13.11		Diagnosis	ICD-10-CM		AV
	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease				
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	2	IPP
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	ISX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I15.0		Diagnosis	ICD-10-CM		AV
	Renovascular hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I15.9	Diagnosis	ICD-10-CM	OA		
I15.0	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	OA
I15.0	Diagnosis	ICD-10-CM	AV		
	Renovascular hypertension				
	Renovascular hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I15.0		Diagnosis	ICD-10-CM		AV
	Renovascular hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I15.0	Diagnosis	ICD-10-CM	AV		
	Renovascular hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	2	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	AV
I15.0	unspecified Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	2	IPX
I15.1	unspecified Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		EDS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	2	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	2	ED
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	2	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	2	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
N26.2	Page kidney	Diagnosis	ICD-10-CM	2	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
N26.2	Page kidney	Diagnosis	ICD-10-CM	2	OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	2	ED
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	2	IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPP
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	2	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	2	IPP
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	2	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	2	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
402.10	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	ED
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	2	AV
402.10	disease without heart failure	Diagnosis	ICD-9-CM		AV
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Unspecified essential hypertension			2	
401.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Essential hypertension, benign			2	
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Unspecified essential hypertension			2	
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Unspecified essential hypertension			2	
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	2	AV
402.10	disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Benign hypertensive heart			2	
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	2	AV
401.1	disease without heart failure	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
402.10	Essential hypertension, benign			2	
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign				AV
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	2	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10	Unspecified essential hypertension			2	
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	2	AV
402.10	hypertension, benign Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
402.10	unspecified Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.11	Benign hypertensive heart	Diagnosis	ICD-9-CM	2	AV
401.9	disease with heart failure Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	IPS
401.0	hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
401.0	kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	IPP
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	ISX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		OA
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	AV
402.90	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.90	Unspecified hypertensive heart disease without heart failure				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	AV
402.90	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	2	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	2	ISX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	ED
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	ISS
401.0	hypertension	Diagnosis	ICD-9-CM		ISX
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	ED
401.0	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	ED
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		ED
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	AV
401.0	disease, malignant, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	AV
403.00	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
403.00	unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
401.9		Diagnosis	ICD-9-CM		IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	AV
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
403.01		Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	ED
401.9		Diagnosis	ICD-9-CM		AV
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.10	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	ED
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	OA
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	AV
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		AV
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	AV
401.1	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	OA
401.9	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPS
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
403.11	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign				
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	2	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.9	Hypertensive chronic kidney disease, unspecified	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
403.90	malignant	Diagnosis	ICD-9-CM		IPS
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	ISP
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	EDP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	ED
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	ED
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
403.90	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
403.90	benign	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
405.11		Diagnosis	ICD-9-CM		AV
403.90	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	OA
401.9		Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
403.90	Unspecified essential hypertension			2	
401.9	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	2	IPP
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	IPX
403.91		Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.91		Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
401.9		Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	IPS
401.9		Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
403.91		Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	2	AV
403.91	kidney disease, malignant, without	Diagnosis	ICD-9-CM		AV
401.1	heart failure and with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
403.91	malignant Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	2	AV
403.91	hypertension, benign Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	AV
403.91	hypertension, unspecified Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	ISX
401.1	hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		ISX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	OA
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	EDS
401.1	hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		EDS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	ED
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ED
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
401.9	benign	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	AV
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	OA
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	2	AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
401.1	benign	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	AV
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	OA
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
404.1	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPP
401.9	hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPP
401.9	unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
401.9	unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
404.10	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	2	AV
401.9	kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPP
401.9	unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPP
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
401.9	malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPX
401.9	hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPS
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPP
405.99	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		2
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	EDS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		OA
404.90	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	OA
401.9		Diagnosis	ICD-9-CM		OA
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPP
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	2	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		OA
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
405.11	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
405.91	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	2	OA
401.9		Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	OA
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	AV
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	2	IPP
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	OA
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	ED
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	2	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	ED
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	2	ED
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	IPP
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	2	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
405.19	unspecified	Diagnosis	ICD-9-CM		AV
	Other secondary hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	2	IPP
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	IPS
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	2	AV
405.91	unspecified	Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	ISS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	EDS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	2	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
403.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA
403.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		OA
403.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	OA
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	OA
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	OA
405.91	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	OA
405.91	unspecified	Diagnosis	ICD-9-CM		OA
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
<hr/>					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.99	unspecified	Diagnosis	ICD-9-CM		OA
405.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
<hr/>					
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
<hr/>					
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
<hr/>					
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
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Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
997.91	Hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
401.0	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
403.91	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
402.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPP
401.1	disease without heart failure	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
402.90	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.10	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	benign	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
405.09	benign	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.1	malignant	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, benign				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPP
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.91	benign	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Unspecified essential				
	hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPP
401.9	malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.9	benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
997.91	Hypertension	Diagnosis	ICD-9-CM	1	ISP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ISP
997.91	Hypertension	Diagnosis	ICD-9-CM	1	ISS
997.91	Hypertension	Diagnosis	ICD-9-CM	1	ISX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ISX
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	OA
402.	disease without heart failure Hypertensive heart disease	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
997.91	Hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.19	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Other secondary hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM		AV
401.9	benign	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		OA
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
997.91	Hypertension	Diagnosis	ICD-9-CM	1	OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I11.0	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
110.	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
110.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
110.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
110.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	1	IPS
I10.	heart failure	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPX
I10.	heart failure	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPP
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPP
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		IPP
I10.	disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPP
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		IPP
I10.	disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.0	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPP
	Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I11.0	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPS
I10.	heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I12.0	disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney	Diagnosis	ICD-10-CM		IPX
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		
I12.0	disease with stage 1 through				
I10.	stage 4 chronic kidney disease, or				
I10.	unspecified chronic kidney				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I13.2	Hypertensive heart and chronic kidney disease without heart	Diagnosis	ICD-10-CM		IPS
I12.0	failure, with stage 1 through stage	Diagnosis	ICD-10-CM		IPS
I10.	4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension				
I10.	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.2	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to	Diagnosis	ICD-10-CM		IPS
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I10.	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		
I10.	Essential (primary) hypertension				
I10.	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		
I13.11	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive heart and chronic	Diagnosis	ICD-10-CM		IPS
I11.9	kidney disease with heart failure	Diagnosis	ICD-10-CM		
I10.	and with stage 5 chronic kidney disease, or end stage renal disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Hypertensive heart disease without heart failure				
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		
I10.	without heart failure				
	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPP
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPS
	kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPP
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPS
	kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
	disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPX
I10.	kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		
I15.0	renal disorders				
I12.9	Hypertension secondary to other				
I12.9	renal disorders				
I12.0	Renovascular hypertension				
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.0	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		
I10.	Renovascular hypertension Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPX
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.		Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.		Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I13.2		Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.0		Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8		Diagnosis	ICD-10-CM		IPX
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1		Diagnosis	ICD-10-CM		IPP
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPP
I15.8		Diagnosis	ICD-10-CM		IPP
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1		Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1		Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
401.9	Essential (primary) hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
405.99	Essential (primary) hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8		Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM		IPS
I10.	endocrine disorders	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.8		Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		
I11.0	Other secondary hypertension				
I10.	Hypertensive heart disease with heart failure				
I10.	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM		IPP
I13.11	and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		
I12.9	renal disorders				
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM		IPX
I12.9	and stage 1 through stage 4	Diagnosis	ICD-10-CM		IPP
I10.	chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPP
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I10.	unspecified chronic kidney disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		
I10.	renal disorders				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	1	IPP
I10.	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		
I10.	Renovascular hypertension				
I10.	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension				
I10.	Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		
I10.	Secondary hypertension, unspecified				
I10.	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Secondary hypertension, unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPP
I10.	heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM	1	IPS
I11.0	heart failure	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart disease with heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPS
I11.0	heart failure	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart disease with heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with	Diagnosis	ICD-10-CM		IPS
I10.	heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I11.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPP
I11.9		Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I12.9	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I11.9	failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I10.	disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive heart disease without heart failure				
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I11.9		Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I10.		Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I10.		Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	IPX
I10.	without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I11.9	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPX
I10.	kidney disease or end stage renal disease Hypertensive heart disease without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPS
I11.9	disease with stage 1 through	Diagnosis	ICD-10-CM		IPX
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Hypertensive heart disease without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		IPX
I10.	without heart failure Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I11.9	unspecified	Diagnosis	ICD-10-CM		
I10.	Hypertensive heart disease without heart failure Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPX
	kidney disease or end stage renal disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I13.10	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive heart and chronic	Diagnosis	ICD-10-CM		IPP
I10.	kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPP
I10.	disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPX
	disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPP
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Hypertensive chronic kidney				
	disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPX
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I12.0	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic	Diagnosis	ICD-10-CM		IPS
I12.0	kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPX
I12.0	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPX
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		IPS
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.0		Diagnosis	ICD-10-CM		IPX
I12.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I12.0		Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I12.0		Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPP
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		IPS
I10.	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		IPS
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	IPS
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
403.90	Essential (primary) hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.		Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.11		Diagnosis	ICD-10-CM		IPX
I10.	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPP
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I10.		Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Renovascular hypertension				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		
	Renovascular hypertension				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Renovascular hypertension				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
405.91	unspecified	Diagnosis	ICD-9-CM		
405.01	Secondary renovascular				
401.0	hypertension, unspecified				
	Secondary renovascular				
	hypertension, malignant				
	Essential hypertension, malignant				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertension secondary to other				
	renal disorders				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I15.1	renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
	renal disorders				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Hypertension secondary to other				
	renal disorders				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I10.	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
	renal disorders				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I10.	renal disorders	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		
	Hypertension secondary to other				
	renal disorders				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	IPS
I15.2	endocrine disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPS
I15.2	endocrine disorders	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.2	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Hypertension secondary to endocrine disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
405.99	Essential (primary) hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPP
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPP
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPS
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I10.	unspecified	Diagnosis	ICD-10-CM		IPX
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPP
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ISP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ISS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ISX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ISS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ISX
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	EDP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I10.	unspecified	Diagnosis	ICD-10-CM		EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	EDS
I10.	disease with stage 1 through	Diagnosis	ICD-10-CM		EDS
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		OA
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		EDS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	EDS
I10.	unspecified	Diagnosis	ICD-10-CM		EDS
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	EDS
401.9	Unspecified essential	Diagnosis	ICD-9-CM		EDS
	hypertension				
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I10.	unspecified	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		ED
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		OA
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
I10.	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		AV
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I10.	renal disorders	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		AV
I10.	renal disorders	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I15.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Secondary hypertension,	Diagnosis	ICD-10-CM		ED
I10.	unspecified	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	ED
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	OA
I12.9	unspecified	Diagnosis	ICD-10-CM		ED
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
I12.9	disease with stage 1 through	Diagnosis	ICD-10-CM		OA
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		ED
I10.	unspecified chronic kidney				
	disease				
	Hypertensive chronic kidney				
	disease with stage 1 through				
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney				
	disease				
	Hypertensive chronic kidney				
	disease with stage 1 through				
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney				
	disease				
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	ED
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	ED
I11.9	without heart failure	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		ED
Essential (primary) hypertension					
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
Essential (primary) hypertension					
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I12.9	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
Essential (primary) hypertension					
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I12.9	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
Essential (primary) hypertension					
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	ED
I12.9	renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
Essential (primary) hypertension					

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	OA
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		AV
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		OA
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
	Hypertensive chronic kidney disease with stage 1 through				
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM		ED
I10.	kidney disease without heart	Diagnosis	ICD-10-CM		ED
	failure, with stage 5 chronic kidney				
	disease, or end stage renal				
	disease				
	Essential (primary) hypertension				
I13.11	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	1	ED
I10.	kidney disease with heart failure	Diagnosis	ICD-10-CM		ED
	and with stage 5 chronic kidney				
	disease, or end stage renal				
	disease				
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	OA
I10.	renal disorders	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I15.8	unspecified	Diagnosis	ICD-10-CM		ED
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		ED
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I15.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Secondary hypertension,	Diagnosis	ICD-10-CM		ED
	unspecified				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I10.	renal disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I10.	renal disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I10.	unspecified	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I11.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive heart disease	Diagnosis	ICD-10-CM		AV
	without heart failure				
	Essential (primary) hypertension				
I13.10	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	1	AV
I10.	kidney disease without heart	Diagnosis	ICD-10-CM		AV
	failure, with stage 5 chronic kidney				
	disease, or end stage renal				
	disease				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I10.	renal disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		AV
I10.	renal disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	1	AV
I10.	endocrine disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.2	Hypertension secondary to	Diagnosis	ICD-10-CM	1	AV
I10.	endocrine disorders	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I10.	unspecified	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		AV
I10.	unspecified	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.0	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.1	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM	AV	
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I15.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I10.	unspecified	Diagnosis	ICD-10-CM		AV
Essential (primary) hypertension					

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	OA
I15.9	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Secondary hypertension, unspecified Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	OA
I10.	renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	OA
I11.9	unspecified	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		OA
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive heart disease without heart failure Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		1
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM	AV	
I10.	kidney disease or end stage renal disease Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM	OA	
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	AV
I12.0	disease with stage 5 chronic	Diagnosis	ICD-10-CM		OA
I10.	kidney disease or end stage renal	Diagnosis	ICD-10-CM		OA
I10.	disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease Essential (primary) hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	OA
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		AV
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.8	unspecified	Diagnosis	ICD-10-CM		AV
I11.9	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		OA
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Hypertensive heart disease without heart failure Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	AV
I11.9	disease with stage 5 chronic	Diagnosis	ICD-10-CM		AV
I10.	kidney disease or end stage renal	Diagnosis	ICD-10-CM		AV
	disease				
	Hypertensive heart disease without heart failure Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
I11.9	disease with stage 5 chronic	Diagnosis	ICD-10-CM		AV
I10.	kidney disease or end stage renal	Diagnosis	ICD-10-CM		AV
	disease Hypertensive heart disease without heart failure Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM		AV
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	OA
I10.	without heart failure	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	ED
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		AV
	kidney disease or end stage renal				
	disease Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		OA
I12.0	renal disorders	Diagnosis	ICD-10-CM		ED
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
I10.	disease with stage 5 chronic kidney disease or end stage renal disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	AV
I10.	disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I12.0	renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
	disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I12.0	renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
	disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I12.0	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney	Diagnosis	ICD-10-CM		AV
	disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	AV
I12.0	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		OA
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I10.	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		AV
	unspecified chronic kidney disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		AV
I10.	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through				
	stage 4 chronic kidney disease, or				
	unspecified chronic kidney disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	ED
I12.9	stage 4 chronic kidney disease, or	Diagnosis	ICD-10-CM		AV
I12.9	unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
	Essential (primary) hypertension				
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM	1	AV
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		AV
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through	Diagnosis	ICD-10-CM		AV
I10.	stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.1		Diagnosis	ICD-10-CM		OA
I12.9	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8		Diagnosis	ICD-10-CM		AV
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.9		Diagnosis	ICD-10-CM		OA
I12.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	EDS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Renovascular hypertension Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	ISS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I10.	Hypertension secondary to other renal disorders Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	EDP
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.9	unspecified	Diagnosis	ICD-10-CM		OA
I10.	Secondary hypertension,	Diagnosis	ICD-10-CM		AV
	unspecified				
	Essential (primary) hypertension				
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	AV
N26.2	Page kidney	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		AV
I15.9	unspecified	Diagnosis	ICD-10-CM		OA
I10.	Secondary hypertension,	Diagnosis	ICD-10-CM		AV
	unspecified				
	Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I15.9	unspecified	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		OA
I10.	unspecified	Diagnosis	ICD-10-CM		OA
	Secondary hypertension,				
	unspecified				
	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	ED
I10.	disease with stage 5 chronic	Diagnosis	ICD-10-CM		OA
	kidney disease or end stage renal				
	disease				
	Essential (primary) hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I12.0	unspecified	Diagnosis	ICD-10-CM		AV
I10.	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
	Essential (primary) hypertension				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	EDS
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	ED
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	ED
I15.9	unspecified	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		OA
I10.	unspecified	Diagnosis	ICD-10-CM		OA
	Secondary hypertension, unspecified Essential (primary) hypertension				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	AV
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	OA
I10.	Essential (primary) hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease	Diagnosis	ICD-10-CM	1	IPS
I11.0	without heart failure	Diagnosis	ICD-10-CM		IPS
	Hypertensive heart disease with heart failure				
I12.9	Hypertensive chronic kidney	Diagnosis	ICD-10-CM	1	IPX
I11.0	disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Hypertensive heart disease with heart failure				
I13.2	Hypertensive heart and chronic	Diagnosis	ICD-10-CM	1	IPS
I11.0	kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Hypertensive heart disease with heart failure				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		IPX
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	ISS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	EDS
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	ED
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I11.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
	Hypertensive heart disease without heart failure				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I11.9	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertensive heart disease without heart failure				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
I11.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive heart disease without heart failure				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I11.9	unspecified	Diagnosis	ICD-10-CM		IPX
	Hypertensive heart disease without heart failure				
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	ISP
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	ISS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	EDS
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I13.10	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I11.9	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I11.9	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	renal disorders	Diagnosis	ICD-10-CM		OA
I11.9	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive heart disease without heart failure				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I15.0	renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I13.11	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPP
	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.0	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPP
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I12.0	unspecified	Diagnosis	ICD-10-CM		IPP
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.0	unspecified	Diagnosis	ICD-10-CM		IPP
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I12.0	Other secondary hypertension	Diagnosis	ICD-10-CM		
I12.0	Other secondary hypertension				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPS
	Renovascular hypertension				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.8	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
	renal disorders				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
	renal disorders				
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPX
I12.0	renal disorders	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I12.0	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney				
	disease with stage 5 chronic				
	kidney disease or end stage renal				
	disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.0	unspecified Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.0	unspecified Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM	1	IPS
I12.0	and with stage 5 chronic kidney disease, or end stage renal disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0		Diagnosis	ICD-10-CM		IPX
I13.11	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.0	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I12.0	unspecified	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	EDP
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	EDP
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	ED
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I12.0	unspecified	Diagnosis	ICD-10-CM		ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	OA
I12.0	unspecified	Diagnosis	ICD-10-CM		ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM	1	OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I12.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM	1	AV
I12.0	and with stage 5 chronic kidney disease, or end stage renal disease Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM		IPS
I12.9	renal disorders	Diagnosis	ICD-10-CM		IPS
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure	Diagnosis	ICD-10-CM	1	IPP
I12.9	and with stage 5 chronic kidney disease, or end stage renal disease Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I15.9	unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
	Other secondary hypertension				
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPS
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I12.9	unspecified	Diagnosis	ICD-10-CM		IPX
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ISS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ISS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	EDS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	EDS
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		EDS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	ED
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I12.9	Other secondary hypertension	Diagnosis	ICD-10-CM		ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	ED
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		ED
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I12.9	renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	ED
I12.9	renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I15.0	renal disorders	Diagnosis	ICD-10-CM		AV
I13.10	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I12.9	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	AV
I12.9	renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.1	Hypertension secondary to other	Diagnosis	ICD-10-CM	1	OA
I12.9	renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV
	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		OA
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	IPP
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	OA
402.0	Malignant hypertensive heart disease	Diagnosis	ICD-9-CM		OA
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPP
401.9		Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
402.00		Diagnosis	ICD-9-CM		IPP
401.9	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPP
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
113.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	ED
113.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I13.10	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		OA
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM		IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.1	Essential hypertension, benign				
401.0	Essential hypertension, malignant				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM	1	ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		ED
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM		AV
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM	1	ED
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	ISX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ISS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPP
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.0	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		IPX
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	ED
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	ED
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.0	Hypertension secondary to other renal disorders Renovascular hypertension				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Hypertension secondary to other renal disorders Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I15.0	Other secondary hypertension Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I15.0	Secondary hypertension, unspecified Renovascular hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.0	Hypertension secondary to other renal disorders Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.0	Hypertension secondary to other renal disorders Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I15.0	Secondary hypertension, unspecified Renovascular hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.1	unspecified	Diagnosis	ICD-10-CM		IPS
	Hypertension secondary to other renal disorders				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.9	unspecified	Diagnosis	ICD-10-CM		IPS
I15.1	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
	Hypertension secondary to other renal disorders				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		IPX
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertension secondary to other renal disorders				
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		ED
	Hypertension secondary to other renal disorders				
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		ED
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
	Hypertension secondary to other renal disorders				
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
	Hypertension secondary to other renal disorders				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		OA
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		AV
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM	1	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	OA
I15.1	unspecified Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	IPX
I15.8	unspecified	Diagnosis	ICD-10-CM		IPX
I15.2	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.2	Hypertension secondary to endocrine disorders Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM		IPX
I15.2	unspecified Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		IPX
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	ED
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension,	Diagnosis	ICD-10-CM	1	AV
I15.2	unspecified Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM	1	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	OA
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPP
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPS
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ISS
402	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I15.8	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	OA
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	IPS
N26.2	Page kidney	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	IPP
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	EDS
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	OA
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM		AV
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPX
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPP
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPX
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		IPS
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ISP
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM	1	ED
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	OA
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM		OA
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	IPS
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM	1	EDP
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	AV
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM		AV
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
402.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Malignant hypertensive heart disease with heart failure				
	Essential hypertension, benign				
402.01	Malignant hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease with heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM		IPX
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	ED
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM		AV
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM	1	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPS
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM		IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	IPX
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	AV
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM	1	OA
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	IPS
N26.2	Page kidney	Diagnosis	ICD-10-CM	1	IPX
402.01	Malignant hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.0	disease with heart failure	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
402.01	Malignant hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease with heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
402.1	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.10	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Benign hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.0	disease without heart failure	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.10	unspecified	Diagnosis	ICD-9-CM		IPX
402.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Benign hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
	Essential hypertension, benign				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.10	benign	Diagnosis	ICD-9-CM		IPX
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	ISX
402.10		Diagnosis	ICD-9-CM		ISX
	Benign hypertensive heart disease without heart failure				
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	ED
401.9		Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
402.90		Diagnosis	ICD-9-CM		OA
402.10	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.10		Diagnosis	ICD-9-CM		OA
	Benign hypertensive heart disease without heart failure				
	Benign hypertensive heart disease without heart failure				
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
402.10		Diagnosis	ICD-9-CM		OA
401.0	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
402.10		Diagnosis	ICD-9-CM		AV
	Benign hypertensive heart disease without heart failure				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
402.10		Diagnosis	ICD-9-CM		AV
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
402.10		Diagnosis	ICD-9-CM		AV
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	OA
402.10	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Benign hypertensive heart disease without heart failure				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
402.10	disease, malignant, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
	stage IV, or unspecified				
	Benign hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.0	disease without heart failure	Diagnosis	ICD-9-CM		OA
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
402.10	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Benign hypertensive heart disease without heart failure				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, benign				
402.10	Benign hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic kidney disease, unspecified,	Diagnosis	ICD-9-CM	1	AV
404.90	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
402.10	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
401	Essential hypertension	Diagnosis	ICD-9-CM	1	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	OA
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		OA
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	ISX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.	Essential hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	OA
401.	Essential hypertension	Diagnosis	ICD-9-CM		OA
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant				
401.0	Essential hypertension, malignant				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.01	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, malignant, with	Diagnosis	ICD-9-CM		IPS
401.0	heart failure and with chronic	Diagnosis	ICD-9-CM		IPP
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential	Diagnosis	ICD-9-CM		IPP
	hypertension				
	Essential hypertension, malignant				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential	Diagnosis	ICD-9-CM		IPP
	hypertension				
	Essential hypertension, malignant				
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.0	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
402.90	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		
	disease without heart failure				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPS
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
402.90	malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.0	disease without heart failure	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified, with heart failure	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.0	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.0	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
404.03	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPS
403.90	kidney disease, malignant, with	Diagnosis	ICD-9-CM		IPX
403.10	heart failure and with chronic	Diagnosis	ICD-9-CM		IPX
403.00	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		
401.0	Hypertensive chronic kidney				
	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.1	stage renal disease	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.1	malignant	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	benign	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
401.9	unspecified	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		
401.0	unspecified	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		
401.0	malignant	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.0	malignant	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.9	Unspecified hypertensive heart disease	Diagnosis	ICD-9-CM	1	AV
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.00	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
	Essential hypertension, malignant				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart				
	disease without heart failure				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPS
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart				
	disease without heart failure				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
402.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		IPX
401.0	disease without heart failure	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.0	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.0	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
	Essential hypertension, malignant				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
403.00	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.11	benign	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
401.1	Unspecified essential hypertension				
401.0	Essential hypertension, benign				
	Essential hypertension, malignant				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.0	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.0	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPP
401.0	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM	IPX	
Essential hypertension, malignant					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM	IPX	
Essential hypertension, malignant					
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPS
401.0	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
Unspecified essential hypertension					
Essential hypertension, malignant					
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
401.0	malignant	Diagnosis	ICD-9-CM	IPX	
Unspecified essential hypertension					
Essential hypertension, malignant					

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, malignant				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.01	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.0	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.0	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPS
401.0	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.0	malignant	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.0	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	benign	Diagnosis	ICD-9-CM		IPX
401.0	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.0	benign	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.0	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
Essential hypertension, malignant					

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified hypertensive heart disease without heart failure Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPS
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPX
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.09		Diagnosis	ICD-9-CM		IPX
404.90	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
404.00		Diagnosis	ICD-9-CM		IPS
402.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
401.9					
401.1	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
	Essential hypertension, benign				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	IPX
401.9	disease without heart failure	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPP
402.90	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPX
401.9	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
402.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified hypertensive heart disease without heart failure				
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	ISS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ISS
402.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ISS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		ISS
401.9	stage renal disease	Diagnosis	ICD-9-CM		ED~
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		
401.0	disease without heart failure				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
402.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	EDS
	disease without heart failure				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	ED
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.0	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
402.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified hypertensive heart				
	disease without heart failure				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.1	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
402.90	hypertension, benign	Diagnosis	ICD-9-CM		AV
	Unspecified hypertensive heart disease without heart failure				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
402.90	disease without heart failure	Diagnosis	ICD-9-CM		OA
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
	Unspecified essential hypertension				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	AV
402.90	unspecified, with heart failure	Diagnosis	ICD-9-CM		AV
401.9	Unspecified hypertensive heart	Diagnosis	ICD-9-CM		AV
	disease without heart failure				
	Unspecified essential hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
402.90	disease, malignant, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
	stage IV, or unspecified				
	Unspecified hypertensive heart disease without heart failure				
	Unspecified essential hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.0	disease without heart failure	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	AV
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
401.0	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
402.90	hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
402.90		Diagnosis	ICD-9-CM		AV
401.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
402.90	hypertension, malignant	Diagnosis	ICD-9-CM		AV
	Unspecified hypertensive heart disease without heart failure				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
402.90	hypertension, benign	Diagnosis	ICD-9-CM		AV
	Unspecified hypertensive heart disease without heart failure				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
402.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified hypertensive heart disease without heart failure				
402.9	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM		OA
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	OA
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
402.90	Essential hypertension, benign				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	OA
401.1	disease without heart failure	Diagnosis	ICD-9-CM		OA
402.90	Essential hypertension, benign				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	OA
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
402.90	Unspecified essential hypertension				
402.90	Unspecified hypertensive heart	Diagnosis	ICD-9-CM	1	OA
401.9	disease without heart failure	Diagnosis	ICD-9-CM		AV
402.90	Unspecified essential hypertension				
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPP
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
402.91	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
402.91	Hypertensive heart disease, unspecified, with heart failure				
402.91	Unspecified essential hypertension				
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
402.91	Hypertensive heart disease, unspecified, with heart failure				
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
402.91	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive heart disease,				
	unspecified, with heart failure				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	AV
	unspecified, with heart failure				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified, with heart failure	Diagnosis	ICD-9-CM		ED
	Unspecified essential				
	hypertension				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified, with heart failure	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
402.91	disease, malignant, with chronic	Diagnosis	ICD-9-CM		OA
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive heart disease,				
	unspecified, with heart failure				
402.91	Hypertensive heart disease,	Diagnosis	ICD-9-CM	1	OA
401.9	unspecified, with heart failure	Diagnosis	ICD-9-CM		OA
	Unspecified essential				
	hypertension				
403	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
	disease				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
403.	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.	Hypertensive chronic kidney disease	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	EDS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	EDP
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		EDS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
403.0	Hypertensive chronic kidney disease, malignant	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPS
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
404.02	hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.00	Secondary renovascular	Diagnosis	ICD-9-CM		
	hypertension, malignant				
	Hypertensive heart and chronic				
	kidney disease, malignant, without				
	heart failure and with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
404.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPS
403.00	kidney disease, unspecified, with	Diagnosis	ICD-9-CM		IPS
401.9	heart failure and with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
403.01	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPP
403.00	without heart failure and with	Diagnosis	ICD-9-CM		IPX
401.9	chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.00	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.1	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.00	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
403.00	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
	Unspecified essential hypertension				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.00	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.00	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.1	hypertension	Diagnosis	ICD-9-CM		ED
401.0	Essential hypertension, benign Essential hypertension, malignant	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
401.1	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.0	hypertension	Diagnosis	ICD-9-CM		ED
	Essential hypertension, benign Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Unspecified essential	Diagnosis	ICD-9-CM		ED
	hypertension Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.0	hypertension	Diagnosis	ICD-9-CM		ED
	Essential hypertension, malignant				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.00	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.00	kidney disease, malignant, without	Diagnosis	ICD-9-CM		OA
403.00	heart failure and with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.00	kidney disease, malignant, without	Diagnosis	ICD-9-CM		OA
403.00	heart failure and with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
403.00	disease, benign, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	OA
403.00	kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, malignant, with chronic	Diagnosis	ICD-9-CM		AV
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.00	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.00	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
	disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.00	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ED
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPX
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPP
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.01	malignant	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPP
403.01	kidney disease, malignant, without	Diagnosis	ICD-9-CM		IPS
401.9	heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.01	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.01	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.01	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.01	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage V or end				
	stage renal disease				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, malignant, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.01	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.01	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
403.01	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.01	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.01		Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
401.9	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.01		Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
401.9	disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.01		Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
	disease, malignant, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
	Unspecified essential hypertension				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.01	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney				
	disease, malignant, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.11	unspecified	Diagnosis	ICD-9-CM		IPX
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign				
401	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.1		Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.1		Diagnosis	ICD-9-CM		AV
401.0		Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
	Essential hypertension, malignant				
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		AV
401.0		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
	Essential hypertension, malignant				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		OA
401.0	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.0	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.0	disease, benign, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.0	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
	Essential hypertension, malignant				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.0	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.0	hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
	Essential hypertension, malignant				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	OA
401.0	malignant	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
	Essential hypertension, malignant				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.0	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				
404.11	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.90	kidney disease, benign, with heart	Diagnosis	ICD-9-CM		AV
401.0	failure and with chronic kidney	Diagnosis	ICD-9-CM		AV
	disease stage I through stage IV,				
	or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	EDS
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		AV
401.0	without heart failure and with	Diagnosis	ICD-9-CM		AV
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.0	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.09	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		AV
401.0	malignant	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
	Essential hypertension, malignant				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.0	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, malignant				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.0	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, malignant				
404.93	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
401.0	kidney disease, unspecified, with	Diagnosis	ICD-9-CM		AV
	heart failure and chronic kidney				
	disease stage V or end stage				
	renal disease				
	Essential hypertension, malignant				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.0	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.01	hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.0	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Essential hypertension, malignant				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.0	benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, malignant				
402.	Hypertensive heart disease	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.1	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
401.1	disease, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.10	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		IPS
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.10	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
403.10		Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.10		Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.10	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.10	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
404.92	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPP
403.91	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPX
403.10	without heart failure and with	Diagnosis	ICD-9-CM		IPX
401.9	chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.10	hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.10	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.10	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.10	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ISP
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ISS
401.9	disease, benign, with chronic	Diagnosis	ICD-9-CM		ISS
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		ISS
	Unspecified essential hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ISS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ISX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ED
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ED
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
403.11	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
403.10	stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
403.10	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
401.9	stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
403.10	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.10	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.10	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.91	hypertension, benign	Diagnosis	ICD-9-CM		AV
403.10	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.1	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.11	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	OA
403.10	kidney disease, benign, with heart	Diagnosis	ICD-9-CM		AV
401.1	failure and with chronic kidney	Diagnosis	ICD-9-CM		AV
401.1	disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Essential hypertension, benign				
	Essential hypertension, benign				
404.11	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.10	kidney disease, benign, with heart	Diagnosis	ICD-9-CM		AV
	failure and with chronic kidney				
	disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
404.11	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.10	kidney disease, benign, with heart	Diagnosis	ICD-9-CM		AV
401.9	failure and with chronic kidney	Diagnosis	ICD-9-CM		ED
401.9	disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.10	hypertension, malignant	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.10	hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.1	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
403.10	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified				
403.10	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
401.1	disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPP
403.11	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.11	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.11	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.11	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
	disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
403.11	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ISS
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	OA
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM		OA
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	EDS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	EDS
401.9		Diagnosis	ICD-9-CM		EDS
403.11	Unspecified essential hypertension				
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
403.11	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
403.11	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
401.9	stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.11	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, benign, with chronic				
	kidney disease stage V or end				
	stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.91	hypertension, benign	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease			1	AV
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension			1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPP
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
404.90	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
403.9	benign	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified				
	Unspecified essential				
	hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPS
	hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	unspecified	Diagnosis	ICD-9-CM		IPS
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified				
	Unspecified essential				
	hypertension				
403.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPP
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPS
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.1	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
403.90	kidney disease, malignant, without	Diagnosis	ICD-9-CM		IPS
401.9	heart failure and with chronic	Diagnosis	ICD-9-CM		IPS
401.1	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		IPX
401.1	stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.1	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
401.1	disease, unspecified, with chronic kidney disease stage V or end stage renal disease Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.1	kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPP
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
401.1	hypertension Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPX
401.1	hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPX
401.1	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
404.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		IPX
401.1	kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Essential hypertension, benign				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Secondary renovascular	Diagnosis	ICD-9-CM		
	hypertension, malignant				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension				
	Essential hypertension, benign				
404.11	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPS
401.1	kidney disease, benign, with heart	Diagnosis	ICD-9-CM		IPX
	failure and with chronic kidney				
	disease stage I through stage IV,				
	or unspecified				
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	malignant	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	benign	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.1	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, unspecified				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.1	unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.1	unspecified	Diagnosis	ICD-9-CM		IPX
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
403.9	Hypertensive chronic kidney disease, unspecified	Diagnosis	ICD-9-CM	1	OA
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
403.9	Hypertensive chronic kidney disease, unspecified	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90		Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90		Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
403.90	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
401.9	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91		Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		IPS
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.90		Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.91		Diagnosis	ICD-9-CM		IPS
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99		Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99		Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
403.91		Diagnosis	ICD-9-CM		IPP
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
403.90	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
405.11		Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
403.90	hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, malignant Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.91		Diagnosis	ICD-9-CM		IPS
403.90	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	malignant	Diagnosis	ICD-9-CM		IPX
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
403.90	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.90	unspecified	Diagnosis	ICD-9-CM		
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
405.11	unspecified	Diagnosis	ICD-9-CM		
403.90	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.99	unspecified	Diagnosis	ICD-9-CM		IPS
403.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.90	unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ISS
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	ISS
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		ISS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ISX
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		ISS
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	EDS
403.90	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	EDS
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		EDS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		ED
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
403.90	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.90		Diagnosis	ICD-9-CM		ED
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
401.1	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		ED
401.9	stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		OA
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ED
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		ED
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		EDS
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		ED
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ED
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		ED
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		ED
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, benign	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
403.90	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
403.90	unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
401.1	stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Essential hypertension, benign				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
401.1	stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		OA
401.9	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, malignant	Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		OA
	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
403.90	disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
403.90	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.90	kidney disease, malignant, without	Diagnosis	ICD-9-CM		AV
	heart failure and with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	OA
403.90	kidney disease, malignant, without	Diagnosis	ICD-9-CM		AV
	heart failure and with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.1	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.1	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Essential hypertension, benign				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
401.1	stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
	Unspecified essential hypertension				
	Essential hypertension, benign				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
	disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ISP
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
	stage IV, or unspecified				
	Unspecified essential hypertension				
	Unspecified essential hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ED
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		AV
401.9	stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
	Unspecified essential hypertension				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.90	kidney disease, unspecified,	Diagnosis	ICD-9-CM		AV
401.9	without heart failure and with	Diagnosis	ICD-9-CM		AV
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
404.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	OA
403.90	kidney disease, unspecified, with	Diagnosis	ICD-9-CM		AV
	heart failure and with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
403.90	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	AV
405.01		Diagnosis	ICD-9-CM		AV
403.90	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.01	unspecified	Diagnosis	ICD-9-CM		AV
403.90	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
403.90	malignant	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.11	benign	Diagnosis	ICD-9-CM		AV
403.90	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	ED
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		AV
403.90	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
403.90		Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.1		Diagnosis	ICD-9-CM		ISP
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.1		Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.91		Diagnosis	ICD-9-CM		AV
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.9		Diagnosis	ICD-9-CM		AV
401.1	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.1		Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
401.9		Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.90	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	OA
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage I through	Diagnosis	ICD-9-CM		OA
	stage IV, or unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.90	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPP
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPX
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		IPS
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPS
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		
	hypertension, malignant				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	malignant	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	malignant	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19		Diagnosis	ICD-9-CM		IPX
403.91	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPP
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPX
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPS
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPS
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
401.9	stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	IPS
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		IPX
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		IPX
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
403.91	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPX
403.91	without heart failure and with	Diagnosis	ICD-9-CM		IPS
401.9	chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	benign	Diagnosis	ICD-9-CM		IPS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
404.12	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
404.02	Hypertensive heart and chronic	Diagnosis	ICD-9-CM		IPX
403.91	kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease				
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPP
403.91	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
403.91	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
403.91		Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.01		Diagnosis	ICD-9-CM		IPX
403.91	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
403.91		Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
404.91	unspecified	Diagnosis	ICD-9-CM		IPP
403.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
403.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
405.99	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
403.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
403.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.91	unspecified	Diagnosis	ICD-9-CM		IPX
403.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
403.91	unspecified	Diagnosis	ICD-9-CM		IPX
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ISP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ISP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ISS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	ISS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ISS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ISS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	EDS
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	EDS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		EDS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	EDS
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		EDS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		ED
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		ED
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		ED
401.9	stage renal disease	Diagnosis	ICD-9-CM		AV
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	ED
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		OA
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	ED
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
403.91	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		OA
	stage renal disease				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.91	kidney disease, malignant, without	Diagnosis	ICD-9-CM		AV
401.1	heart failure and with chronic	Diagnosis	ICD-9-CM		AV
	kidney disease stage I through				
	stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		AV
401.1	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
	stage renal disease				
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.1	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		OA
	kidney disease stage V or end				
	stage renal disease				
	Essential hypertension, benign				
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ISS
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
403.91	Hypertensive chronic kidney	Diagnosis	ICD-9-CM	1	AV
401.9	disease, unspecified, with chronic	Diagnosis	ICD-9-CM		ED
401.9	kidney disease stage V or end	Diagnosis	ICD-9-CM		AV
	stage renal disease				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
403.91	benign	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		ED
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
403.91	kidney disease, unspecified,	Diagnosis	ICD-9-CM		AV
401.9	without heart failure and with	Diagnosis	ICD-9-CM		AV
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Hypertensive chronic kidney				
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
403.91	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive chronic kidney	Diagnosis	ICD-9-CM		AV
	disease, unspecified, with chronic				
	kidney disease stage V or end				
	stage renal disease				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
405.19		Diagnosis	ICD-9-CM		OA
403.91	Other secondary hypertension, benign Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ISX
401.9		Diagnosis	ICD-9-CM		ISS
401.1	Unspecified essential hypertension Essential hypertension, benign	Diagnosis	ICD-9-CM		ISX
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	OA
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
403.91	unspecified	Diagnosis	ICD-9-CM		OA
	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	EDS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404	Hypertensive heart and chronic kidney disease, malignant	Diagnosis	ICD-9-CM	1	OA
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	ED
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.00	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	OA
401.9	kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
404.01	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
401.9	kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
404.01	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	OA
	kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.1	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	OA
401.9	hypertension, benign	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	benign	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.1	hypertension	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension, malignant	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.01	malignant	Diagnosis	ICD-9-CM		AV
401.1	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.11	benign	Diagnosis	ICD-9-CM		AV
401.1	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	OA
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.1	benign	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.99		Diagnosis	ICD-9-CM		AV
401.1	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Essential hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM		AV
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM	1	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	AV
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	OA
401.1	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		OA
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential				
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension	Diagnosis	ICD-9-CM		OA
401.1	Unspecified essential	Diagnosis	ICD-9-CM		OA
	hypertension				
	Essential hypertension, benign				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	benign	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		OA
	hypertension				
	Essential hypertension, benign				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.1	Unspecified essential	Diagnosis	ICD-9-CM		OA
	hypertension				
	Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	OA
401.1	hypertension	Diagnosis	ICD-9-CM		OA
	Essential hypertension, benign				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.1	malignant Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	ED
405.19	benign	Diagnosis	ICD-9-CM		AV
401.1	Other secondary hypertension, benign Essential hypertension, benign	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	OA
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.1	Secondary renovascular	Diagnosis	ICD-9-CM		OA
	hypertension, unspecified Essential hypertension, benign				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	IPP
401.9	hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential	Diagnosis	ICD-9-CM		IPX
	hypertension Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPP
401.9	malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential				
	hypertension Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPP
	Unspecified essential hypertension				
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	ISX
401.9		Diagnosis	ICD-9-CM		ISS
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
401.9		Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9		Diagnosis	ICD-9-CM		IPX
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
404.90	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPS
401.9	without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
	Unspecified essential hypertension				
404.92	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	IPX
401.9	kidney disease, unspecified,	Diagnosis	ICD-9-CM		IPX
401.9	without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	malignant	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
404.90	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
404.91	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.01	malignant	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.09	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.19	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
405.09	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
405.11	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.11	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.91		Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91		Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
401.9		Diagnosis	ICD-9-CM		IPS
	Unspecified essential hypertension				
404.1	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	AV
404.10		Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.11	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, benign				
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPP
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
401.9	benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.19	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
404.90	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPX
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
404.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
404.92	benign	Diagnosis	ICD-9-CM		IPX
401.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
401.9	hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.01	unspecified	Diagnosis	ICD-9-CM		IPS
401.9	Secondary renovascular hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.01	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
401.9	hypertension, benign	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular				
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPS
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
	malignant				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.09	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
	malignant				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.11	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		IPX
	hypertension, benign				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Unspecified secondary	Diagnosis	ICD-9-CM		IPX
	hypertension, unspecified				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPP
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPX
405.91	unspecified	Diagnosis	ICD-9-CM		IPP
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPS
405.91	unspecified	Diagnosis	ICD-9-CM		IPX
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		
	Secondary renovascular hypertension, unspecified				
	Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.99	unspecified	Diagnosis	ICD-9-CM		IPX
405.91	Other secondary hypertension,	Diagnosis	ICD-9-CM		IPX
401.9	unspecified	Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, unspecified				
	Unspecified essential hypertension				
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	AV
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ISP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ISP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ISS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ISP
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ISS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ISS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ISS
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
404.12	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ISX
401.9	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	OA
404.13	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
404.13	kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	EDP
401.9	hypertension	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	EDP
401.9	hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	EDP
401.9	hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		EDP
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	EDS
401.9		Diagnosis	ICD-9-CM		EDS
	Unspecified essential hypertension				
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
404.90		Diagnosis	ICD-9-CM		IPS
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9		Diagnosis	ICD-9-CM		AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9		Diagnosis	ICD-9-CM		AV
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9		Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM	1	ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	OA
401.9	benign	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM		AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM		AV
401.9	hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension Unspecified essential hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	ED
401.9	unspecified	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential	Diagnosis	ICD-9-CM		AV
	hypertension Unspecified essential hypertension				
401.9	Unspecified essential	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension	Diagnosis	ICD-9-CM		OA
	Unspecified essential hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	ED
405.09	unspecified	Diagnosis	ICD-9-CM		ED
401.9	Other secondary hypertension,	Diagnosis	ICD-9-CM		ED
	malignant Unspecified essential hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	ED
401.9	benign	Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	EDS
401.9		Diagnosis	ICD-9-CM		ED
	Unspecified essential hypertension				
404.9	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
404.90		Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
404.90		Diagnosis	ICD-9-CM		AV
401.9		Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
404.90	kidney disease, unspecified,	Diagnosis	ICD-9-CM		AV
401.9	without heart failure and with	Diagnosis	ICD-9-CM		AV
	chronic kidney disease stage V or				
	end stage renal disease				
	Hypertensive heart and chronic				
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
	Unspecified essential				
	hypertension				
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
404.90	malignant	Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic				
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
404.90	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic				
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
404.90	unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic				
	kidney disease, unspecified,				
	without heart failure and with				
	chronic kidney disease stage I				
	through stage IV, or unspecified				
404.91	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	ED
	kidney disease, unspecified, with				
	heart failure and with chronic				
	kidney disease stage I through				
	stage IV, or unspecified				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	AV
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	OA
404.91	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified				
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM	1	OA
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	IPP
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
401.9	kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.01	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.09	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Other secondary hypertension, malignant Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.91	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
405.11	Secondary renovascular	Diagnosis	ICD-9-CM		AV
401.9	hypertension, unspecified Secondary renovascular hypertension, benign Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, unspecified Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
404.92	Hypertensive heart and chronic	Diagnosis	ICD-9-CM	1	AV
401.9	kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.09	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	malignant	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	ED
401.9	hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
401.9	hypertension, benign	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		ED
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.91	unspecified	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular	Diagnosis	ICD-9-CM		OA
401.9	hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, unspecified				
	Unspecified essential				
	hypertension				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
401.9	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential	Diagnosis	ICD-9-CM		OA
	hypertension				
	Unspecified essential				
	hypertension				
405.11	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.01	hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.19	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.01	benign	Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.01	hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Unspecified essential				
	hypertension				
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.01	unspecified	Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular	Diagnosis	ICD-9-CM		AV
	hypertension, malignant				
	Unspecified essential				
	hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
405.09		Diagnosis	ICD-9-CM		OA
401.9	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	OA
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.1	Secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9		Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.11		Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.11		Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		OA
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		AV
401.9	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.99		Diagnosis	ICD-9-CM		AV
401.9	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
	Unspecified essential hypertension				
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	EDS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM		AV
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	EDS
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM	1	AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM		OA
405	Secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		ED
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	OA
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM		OA
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM	1	IPS
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	IPS
405.19	unspecified	Diagnosis	ICD-9-CM		
405.09	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		
	Other secondary hypertension, malignant				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		
405.99	Other secondary hypertension,	Diagnosis	ICD-9-CM	1	AV
405.19	unspecified	Diagnosis	ICD-9-CM		
405.09	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		
	Other secondary hypertension, malignant				
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	AV
405.09	hypertension, unspecified	Diagnosis	ICD-9-CM		
	Other secondary hypertension, malignant				
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	AV
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM		
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPS
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		
405.91	Secondary renovascular	Diagnosis	ICD-9-CM	1	IPX
405.11	hypertension, unspecified	Diagnosis	ICD-9-CM		
	Secondary renovascular hypertension, benign				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM	1	ED
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		OA
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM		OA
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPS

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		IPX
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	ED
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		OA
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM		AV
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM	1	OA
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.9	Unspecified secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPS
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM		IPX

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPP
405.91		Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPX
405.91		Diagnosis	ICD-9-CM		IPX
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	ISS
405.91		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.91		Diagnosis	ICD-9-CM		AV
405.91		Diagnosis	ICD-9-CM		OA
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		OA
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		OA
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	AV
405.91		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	EDS
405.91		Diagnosis	ICD-9-CM		AV
	Secondary renovascular hypertension, unspecified				
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM	1	OA

Table 4b. Distribution of Index-Defining Codes Using International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes for the Hypertension Definition 2 Cohort

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting*
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	IPS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		IPX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ISX
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	EDS
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM	1	ED
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM		AV

*Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (September 26, 2019)

DP ID	Start Date¹	End Date¹
DP01	1/1/2000	1/31/2019
DP02	1/1/2005	7/31/2018
DP03	1/1/2008	6/30/2018
DP04	1/1/2008	11/30/2018
DP05	1/1/2000	6/30/2018
DP06	1/1/2006	12/31/2018
DP07	1/1/2000	4/30/2019
DP08	1/1/2000	2/28/2019
DP09	6/1/2007	1/31/2019
DP10	1/1/2000	12/31/2018
DP11	1/1/2004	3/31/2019
DP12	1/1/2000	3/31/2018
DP13	1/1/2000	12/31/2017
DP14	1/1/2000	4/30/2018
DP15	1/1/2012	6/30/2017

¹The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define the Event of Interest in this Request

Code	Description	Code Type	Code Category
Hypertension			
401	Essential hypertension	ICD-9-CM	Diagnosis
401.0	Essential hypertension, malignant	ICD-9-CM	Diagnosis
401.1	Essential hypertension, benign	ICD-9-CM	Diagnosis
401.9	Unspecified essential hypertension	ICD-9-CM	Diagnosis
402	Hypertensive heart disease	ICD-9-CM	Diagnosis
402.0	Malignant hypertensive heart disease	ICD-9-CM	Diagnosis
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.1	Benign hypertensive heart disease	ICD-9-CM	Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.9	Unspecified hypertensive heart disease	ICD-9-CM	Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnosis
403	Hypertensive chronic kidney disease	ICD-9-CM	Diagnosis
403.0	Hypertensive chronic kidney disease, malignant	ICD-9-CM	Diagnosis
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
403.1	Hypertensive chronic kidney disease, benign	ICD-9-CM	Diagnosis
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
403.9	Hypertensive chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404	Hypertensive heart and chronic kidney disease	ICD-9-CM	Diagnosis
404.0	Hypertensive heart and chronic kidney disease, malignant	ICD-9-CM	Diagnosis
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.1	Hypertensive heart and chronic kidney disease, benign	ICD-9-CM	Diagnosis

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define the Event of Interest in this Request

Code	Description	Code Type	Code Category
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.9	Hypertensive heart and chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
405	Secondary hypertension	ICD-9-CM	Diagnosis
405.0	Secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.01	Secondary renovascular hypertension, malignant	ICD-9-CM	Diagnosis
405.09	Other secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.1	Secondary hypertension, benign	ICD-9-CM	Diagnosis
405.11	Secondary renovascular hypertension, benign	ICD-9-CM	Diagnosis
405.19	Other secondary hypertension, benign	ICD-9-CM	Diagnosis
405.9	Unspecified secondary hypertension, unspecified	ICD-9-CM	Diagnosis
405.91	Secondary renovascular hypertension, unspecified	ICD-9-CM	Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM	Diagnosis
997.91	Hypertension	ICD-9-CM	Diagnosis
I10	Essential (primary) hypertension	ICD-10-CM	Diagnosis
I11	Hypertensive heart disease	ICD-10-CM	Diagnosis
I11.0	Hypertensive heart disease with heart failure	ICD-10-CM	Diagnosis
I11.9	Hypertensive heart disease without heart failure	ICD-10-CM	Diagnosis
I12	Hypertensive chronic kidney disease	ICD-10-CM	Diagnosis
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM	Diagnosis
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM	Diagnosis
I13	Hypertensive heart and chronic kidney disease	ICD-10-CM	Diagnosis
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM	Diagnosis
I13.1	Hypertensive heart and chronic kidney disease without heart failure	ICD-10-CM	Diagnosis

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define the Event of Interest in this Request

Code	Description	Code Type	Code Category
I13.2	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM	Diagnosis
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	ICD-10-CM	Diagnosis
I13.11	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	ICD-10-CM	Diagnosis
I15	Secondary hypertension	ICD-10-CM	Diagnosis
I15.0	Renovascular hypertension	ICD-10-CM	Diagnosis
I15.1	Hypertension secondary to other renal disorders	ICD-10-CM	Diagnosis
I15.2	Hypertension secondary to endocrine disorders	ICD-10-CM	Diagnosis
I15.8	Other secondary hypertension	ICD-10-CM	Diagnosis
I15.9	Secondary hypertension, unspecified	ICD-10-CM	Diagnosis
I16.0	Hypertensive urgency	ICD-10-CM	Diagnosis
I16.1	Hypertensive emergency	ICD-10-CM	Diagnosis
I16.9	Hypertensive crisis, unspecified	ICD-10-CM	Diagnosis
N26.2	Acute kidney injury	ICD-10-CM	Diagnosis
I97.3	Postprocedural hypertension	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
Obesity			
278.0	Overweight and obesity	ICD-9-CM	Diagnosis
278.00	Obesity, unspecified	ICD-9-CM	Diagnosis
278.01	Morbid obesity	ICD-9-CM	Diagnosis
278.02	Overweight	ICD-9-CM	Diagnosis
278.1	Localized adiposity	ICD-9-CM	Diagnosis
V45.86	Bariatric surgery status	ICD-9-CM	Diagnosis
44.31	High gastric bypass	ICD-9-CM	Procedure
44.68	Laparoscopic gastroplasty	ICD-9-CM	Procedure
44.95	Laparoscopic gastric restrictive procedure	ICD-9-CM	Procedure
E65	Localized adiposity	ICD-10-CM	Diagnosis
E66.01	Morbid (severe) obesity due to excess calories	ICD-10-CM	Diagnosis
E66.09	Other obesity due to excess calories	ICD-10-CM	Diagnosis
E66.1	Drug-induced obesity	ICD-10-CM	Diagnosis
E66.3	Overweight	ICD-10-CM	Diagnosis
E66.8	Other obesity	ICD-10-CM	Diagnosis
E66.9	Obesity, unspecified	ICD-10-CM	Diagnosis
Z98.84	Bariatric surgery status	ICD-10-CM	Diagnosis
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	ICD-10-PCS	Procedure
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	ICD-10-PCS	Procedure
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS	Procedure
0D160ZA	Bypass Stomach to Jejunum, Open Approach	ICD-10-PCS	Procedure
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	ICD-10-PCS	Procedure
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	ICD-10-PCS	Procedure
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or	ICD-10-PCS	Procedure
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	ICD-10-PCS	Procedure
0DQ64ZZ	Repair Stomach, Percutaneous Endoscopic Approach	ICD-10-PCS	Procedure
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	ICD-10-PCS	Procedure
Body Mass Index (BMI) - Underweight			
V85.0	Body Mass Index less than 19, adult	ICD-9-CM	Diagnosis
V85.51	Body Mass Index, pediatric, less than 5th percentile for age	ICD-9-CM	Diagnosis
Z68.1	Body mass index (BMI) 19 or less, adult	ICD-10-CM	Diagnosis
Z68.51	Body mass index (BMI) pediatric, less than 5th percentile for age	ICD-10-CM	Diagnosis
Body Mass Index (BMI) - Normal Weight			
V85.1	Body Mass Index between 19-24, adult	ICD-9-CM	Diagnosis
V85.52	Body Mass Index, pediatric, 5th percentile to less than 85th percentile for age	ICD-9-CM	Diagnosis
Z68.20	Body mass index (BMI) 20.0-20.9, adult	ICD-10-CM	Diagnosis
Z68.21	Body mass index (BMI) 21.0-21.9, adult	ICD-10-CM	Diagnosis
Z68.22	Body mass index (BMI) 22.0-22.9, adult	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
Z68.23	Body mass index (BMI) 23.0-23.9, adult	ICD-10-CM	Diagnosis
Z68.24	Body mass index (BMI) 24.0-24.9, adult	ICD-10-CM	Diagnosis
Z68.52	Body mass index (BMI) pediatric, 5th percentile to less than 85th percentile for age	ICD-10-CM	Diagnosis
Body Mass Index (BMI) - Overweight			
V85.21	Body Mass Index 25.0-25.9, adult	ICD-9-CM	Diagnosis
V85.22	Body Mass Index 26.0-26.9, adult	ICD-9-CM	Diagnosis
V85.23	Body Mass Index 27.0-27.9, adult	ICD-9-CM	Diagnosis
V85.24	Body Mass Index 28.0-28.9, adult	ICD-9-CM	Diagnosis
V85.25	Body Mass Index 29.0-29.9, adult	ICD-9-CM	Diagnosis
V85.53	Body Mass Index, pediatric, 85th percentile to less than 95th percentile for age	ICD-9-CM	Diagnosis
Z68.25	Body mass index (BMI) 25.0-25.9, adult	ICD-10-CM	Diagnosis
Z68.26	Body mass index (BMI) 26.0-26.9, adult	ICD-10-CM	Diagnosis
Z68.27	Body mass index (BMI) 27.0-27.9, adult	ICD-10-CM	Diagnosis
Z68.28	Body mass index (BMI) 28.0-28.9, adult	ICD-10-CM	Diagnosis
Z68.29	Body mass index (BMI) 29.0-29.9, adult	ICD-10-CM	Diagnosis
Z68.53	Body mass index (BMI) pediatric, 85th percentile to less than 95th percentile for age	ICD-10-CM	Diagnosis
Body Mass Index (BMI) - Obese			
V85.3	Body Mass Index between 30-39, adult	ICD-9-CM	Diagnosis
V85.30	Body Mass Index 30.0-30.9, adult	ICD-9-CM	Diagnosis
V85.31	Body Mass Index 31.0-31.9, adult	ICD-9-CM	Diagnosis
V85.32	Body Mass Index 32.0-32.9, adult	ICD-9-CM	Diagnosis
V85.33	Body Mass Index 33.0-33.9, adult	ICD-9-CM	Diagnosis
V85.34	Body Mass Index 34.0-34.9, adult	ICD-9-CM	Diagnosis
V85.35	Body Mass Index 35.0-35.9, adult	ICD-9-CM	Diagnosis
V85.36	Body Mass Index 36.0-36.9, adult	ICD-9-CM	Diagnosis
V85.37	Body Mass Index 37.0-37.9, adult	ICD-9-CM	Diagnosis
V85.38	Body Mass Index 38.0-38.9, adult	ICD-9-CM	Diagnosis
V85.39	Body Mass Index 39.0-39.9, adult	ICD-9-CM	Diagnosis
V85.4	Body Mass Index 40 and over, adult	ICD-9-CM	Diagnosis
V85.41	Body Mass Index 40.0-44.9, adult	ICD-9-CM	Diagnosis
V85.42	Body Mass Index 45.0-49.9, adult	ICD-9-CM	Diagnosis
V85.43	Body Mass Index 50.0-59.9, adult	ICD-9-CM	Diagnosis
V85.44	Body Mass Index 60.0-69.9, adult	ICD-9-CM	Diagnosis
V85.45	Body Mass Index 70 and over, adult	ICD-9-CM	Diagnosis
V85.54	Body Mass Index, pediatric, greater than or equal to 95th percentile for age	ICD-9-CM	Diagnosis
Z68.30	Body mass index (BMI) 30.0-30.9, adult	ICD-10-CM	Diagnosis
Z68.31	Body mass index (BMI) 31.0-31.9, adult	ICD-10-CM	Diagnosis
Z68.32	Body mass index (BMI) 32.0-32.9, adult	ICD-10-CM	Diagnosis
Z68.33	Body mass index (BMI) 33.0-33.9, adult	ICD-10-CM	Diagnosis
Z68.34	Body mass index (BMI) 34.0-34.9, adult	ICD-10-CM	Diagnosis
Z68.35	Body mass index (BMI) 35.0-35.9, adult	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
Z68.36	Body mass index (BMI) 36.0-36.9, adult	ICD-10-CM	Diagnosis
Z68.37	Body mass index (BMI) 37.0-37.9, adult	ICD-10-CM	Diagnosis
Z68.38	Body mass index (BMI) 38.0-38.9, adult	ICD-10-CM	Diagnosis
Z68.39	Body mass index (BMI) 39.0-39.9, adult	ICD-10-CM	Diagnosis
Z68.41	Body mass index (BMI) 40.0-44.9, adult	ICD-10-CM	Diagnosis
Z68.42	Body mass index (BMI) 45.0-49.9, adult	ICD-10-CM	Diagnosis
Z68.43	Body mass index (BMI) 50-59.9, adult	ICD-10-CM	Diagnosis
Z68.44	Body mass index (BMI) 60.0-69.9, adult	ICD-10-CM	Diagnosis
Z68.45	Body mass index (BMI) 70 or greater, adult	ICD-10-CM	Diagnosis
Z68.54	Body mass index (BMI) pediatric, greater than or equal to 95th percentile for age	ICD-10-CM	Diagnosis
Type 2 Diabetes Mellitus			
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM	Diagnosis
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM	Diagnosis
E11.37	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment	ICD-10-CM	Diagnosis
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.354	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	ICD-10-CM	Diagnosis
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined	ICD-10-CM	Diagnosis
E11.353	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	ICD-10-CM	Diagnosis
E11.352	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	ICD-10-CM	Diagnosis
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM	Diagnosis
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM	Diagnosis
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM	Diagnosis
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM	Diagnosis
E11.355	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM	Diagnosis
E11	Type 2 diabetes mellitus	ICD-10-CM	Diagnosis
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM	Diagnosis
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM	Diagnosis
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM	Diagnosis
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
Type 2 Diabetes Mellitus Continued			
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM	Diagnosis
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM	Diagnosis
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM	Diagnosis
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM	Diagnosis
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM	Diagnosis
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	ICD-10-CM	Diagnosis
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular	ICD-10-CM	Diagnosis
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular	ICD-10-CM	Diagnosis
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular	ICD-10-CM	Diagnosis
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM	Diagnosis
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM	Diagnosis
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM	Diagnosis
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM	Diagnosis
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM	Diagnosis
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM	Diagnosis
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM	Diagnosis
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM	Diagnosis
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM	Diagnosis
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM	Diagnosis
E11.5	Type 2 diabetes mellitus with circulatory complications	ICD-10-CM	Diagnosis
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM	Diagnosis
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM	Diagnosis
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	ICD-10-CM	Diagnosis
E11.61	Type 2 diabetes mellitus with diabetic arthropathy	ICD-10-CM	Diagnosis
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM	Diagnosis
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	ICD-10-CM	Diagnosis
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	ICD-10-CM	Diagnosis
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	ICD-10-CM	Diagnosis
E11.2	Type 2 diabetes mellitus with kidney complications	ICD-10-CM	Diagnosis
E11.4	Type 2 diabetes mellitus with neurological complications	ICD-10-CM	Diagnosis
E11.3	Type 2 diabetes mellitus with ophthalmic complications	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.59	Type 2 diabetes mellitus with other circulatory complications	ICD-10-CM	Diagnosis
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM	Diagnosis
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	ICD-10-CM	Diagnosis
E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM	Diagnosis
E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM	Diagnosis
E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM	Diagnosis
E11.6	Type 2 diabetes mellitus with other specified complications	ICD-10-CM	Diagnosis
E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM	Diagnosis
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM	Diagnosis
E11.31	Type 2 diabetes mellitus with unspecified diabetic retinopathy	ICD-10-CM	Diagnosis
E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM	Diagnosis
E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM	Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM	Diagnosis
E11.0	Type 2 diabetes mellitus with hyperosmolarity	ICD-10-CM	Diagnosis
E11.64	Type 2 diabetes mellitus with hypoglycemia	ICD-10-CM	Diagnosis
E11.1	Type 2 diabetes mellitus with ketoacidosis	ICD-10-CM	Diagnosis
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	ICD-10-CM	Diagnosis
E11.63	Type 2 diabetes mellitus with oral complications	ICD-10-CM	Diagnosis
E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM	Diagnosis
E11.62	Type 2 diabetes mellitus with skin complications	ICD-10-CM	Diagnosis
E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM	Diagnosis
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular	ICD-10-CM	Diagnosis
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM	Diagnosis
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM	Diagnosis
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM	Diagnosis
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM	Diagnosis
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM	Diagnosis
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with	ICD-10-CM	Diagnosis
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.32	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.33	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.35	Type 2 diabetes mellitus with proliferative diabetic retinopathy	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.34	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy	ICD-10-CM	Diagnosis
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM	Diagnosis
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM	Diagnosis
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM	Diagnosis
Dyslipidemia			
272.0	Pure hypercholesterolemia	ICD-9-CM	Diagnosis
272.1	Pure hyperglyceridemia	ICD-9-CM	Diagnosis
272.2	Mixed hyperlipidemia	ICD-9-CM	Diagnosis
272.3	Hyperchylomicronemia	ICD-9-CM	Diagnosis
272.4	Other and unspecified hyperlipidemia	ICD-9-CM	Diagnosis
272.5	Lipoprotein deficiencies	ICD-9-CM	Diagnosis
272.8	Other disorders of lipoid metabolism	ICD-9-CM	Diagnosis
272.9	Unspecified disorder of lipoid metabolism	ICD-9-CM	Diagnosis
E78	Disorders of lipoprotein metabolism and other lipidemias	ICD-10-CM	Diagnosis
E78.0	Pure hypercholesterolemia	ICD-10-CM	Diagnosis
E78.00	Pure hypercholesterolemia, unspecified	ICD-10-CM	Diagnosis
E78.01	Familial hypercholesterolemia	ICD-10-CM	Diagnosis
E78.1	Pure hyperglyceridemia	ICD-10-CM	Diagnosis
E78.2	Mixed hyperlipidemia	ICD-10-CM	Diagnosis
E78.3	Hyperchylomicronemia	ICD-10-CM	Diagnosis
E78.4	Other hyperlipidemia	ICD-10-CM	Diagnosis
E78.41	Elevated Lipoprotein(a)	ICD-10-CM	Diagnosis
E78.49	Other hyperlipidemia	ICD-10-CM	Diagnosis
E78.5	Hyperlipidemia, unspecified	ICD-10-CM	Diagnosis
E78.6	Lipoprotein deficiency	ICD-10-CM	Diagnosis
E78.8	Other disorders of lipoprotein metabolism	ICD-10-CM	Diagnosis
E78.89	Other lipoprotein metabolism disorders	ICD-10-CM	Diagnosis
E78.9	Disorder of lipoprotein metabolism, unspecified	ICD-10-CM	Diagnosis
Chronic Kidney Disease			
016.00	Tuberculosis of kidney, confirmation unspecified	ICD-9-CM	Diagnosis
016.01	Tuberculosis of kidney, bacteriological or histological examination not done	ICD-9-CM	Diagnosis
016.02	Tuberculosis of kidney, bacteriological or histological examination unknown (at present)	ICD-9-CM	Diagnosis
016.03	Tuberculosis of kidney, tubercle bacilli found (in sputum) by microscopy	ICD-9-CM	Diagnosis
016.04	Tuberculosis of kidney, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture	ICD-9-CM	Diagnosis

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Code	Description	Code Type	Code Category
016.05	Tuberculosis of kidney, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically	ICD-9-CM	Diagnosis
016.06	Tuberculosis of kidney, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]	ICD-9-CM	Diagnosis
095.4	Syphilis of kidney	ICD-9-CM	Diagnosis
189.0	Malignant neoplasm of kidney, except pelvis	ICD-9-CM	Diagnosis
189.9	Malignant neoplasm of urinary organ, site unspecified	ICD-9-CM	Diagnosis
223.0	Benign neoplasm of kidney, except pelvis	ICD-9-CM	Diagnosis
236.91	Neoplasm of uncertain behavior of kidney and ureter	ICD-9-CM	Diagnosis
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM	Diagnosis
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	ICD-9-CM	Diagnosis
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
271.4	Renal glycosuria	ICD-9-CM	Diagnosis
274.10	Gouty nephropathy, unspecified	ICD-9-CM	Diagnosis
283.11	Hemolytic-uremic syndrome	ICD-9-CM	Diagnosis
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or	ICD-9-CM	Diagnosis
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage	ICD-9-CM	Diagnosis
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and	ICD-9-CM	Diagnosis
440.1	Atherosclerosis of renal artery	ICD-9-CM	Diagnosis
442.1	Aneurysm of renal artery	ICD-9-CM	Diagnosis
572.4	Hepatorenal syndrome	ICD-9-CM	Diagnosis
580.0	Acute glomerulonephritis with lesion of proliferative glomerulonephritis	ICD-9-CM	Diagnosis
580.4	Acute glomerulonephritis with lesion of rapidly progressive glomerulonephritis	ICD-9-CM	Diagnosis
580.81	Acute glomerulonephritis with other specified pathological lesion in kidney in	ICD-9-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
580.89	Other acute glomerulonephritis with other specified pathological lesion in kidney	ICD-9-CM	Diagnosis
580.9	Acute glomerulonephritis with unspecified pathological lesion in kidney	ICD-9-CM	Diagnosis
581.0	Nephrotic syndrome with lesion of proliferative glomerulonephritis	ICD-9-CM	Diagnosis
581.1	Nephrotic syndrome with lesion of membranous glomerulonephritis	ICD-9-CM	Diagnosis
581.2	Nephrotic syndrome with lesion of membranoproliferative glomerulonephritis	ICD-9-CM	Diagnosis
581.3	Nephrotic syndrome with lesion of minimal change glomerulonephritis	ICD-9-CM	Diagnosis
581.81	Nephrotic syndrome with other specified pathological lesion in kidney in diseases	ICD-9-CM	Diagnosis
581.89	Other nephrotic syndrome with specified pathological lesion in kidney	ICD-9-CM	Diagnosis
581.9	Nephrotic syndrome with unspecified pathological lesion in kidney	ICD-9-CM	Diagnosis
582.0	Chronic glomerulonephritis with lesion of proliferative glomerulonephritis	ICD-9-CM	Diagnosis
582.1	Chronic glomerulonephritis with lesion of membranous glomerulonephritis	ICD-9-CM	Diagnosis
582.2	Chronic glomerulonephritis with lesion of membranoproliferative glomerulonephritis	ICD-9-CM	Diagnosis
582.4	Chronic glomerulonephritis with lesion of rapidly progressive glomerulonephritis	ICD-9-CM	Diagnosis
582.81	Chronic glomerulonephritis with other specified pathological lesion in kidney in diseases classified elsewhere	ICD-9-CM	Diagnosis
582.89	Other chronic glomerulonephritis with specified pathological lesion in kidney	ICD-9-CM	Diagnosis
582.9	Chronic glomerulonephritis with unspecified pathological lesion in kidney	ICD-9-CM	Diagnosis
583.0	Nephritis and nephropathy, not specified as acute or chronic, with lesion of proliferative glomerulonephritis	ICD-9-CM	Diagnosis
583.1	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranous glomerulonephritis	ICD-9-CM	Diagnosis
583.2	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranoproliferative glomerulonephritis	ICD-9-CM	Diagnosis
583.4	Nephritis and nephropathy, not specified as acute or chronic, with lesion of rapidly progressive glomerulonephritis	ICD-9-CM	Diagnosis
583.6	Nephritis and nephropathy, not specified as acute or chronic, with lesion of renal cortical necrosis	ICD-9-CM	Diagnosis
583.7	Nephritis and nephropathy, not specified as acute or chronic, with lesion of renal medullary necrosis	ICD-9-CM	Diagnosis
583.81	Nephritis and nephropathy, not specified as acute or chronic, with other specified pathological lesion in kidney, in diseases classified elsewhere	ICD-9-CM	Diagnosis
583.89	Other nephritis and nephropathy, not specified as acute or chronic, with specified pathological lesion in kidney	ICD-9-CM	Diagnosis
583.9	Nephritis and nephropathy, not specified as acute or chronic, with unspecified pathological lesion in kidney	ICD-9-CM	Diagnosis
584.5	Acute kidney failure with lesion of tubular necrosis	ICD-9-CM	Diagnosis
584.6	Acute kidney failure with lesion of renal cortical necrosis	ICD-9-CM	Diagnosis
584.7	Acute kidney failure with lesion of medullary [papillary] necrosis	ICD-9-CM	Diagnosis
584.8	Acute kidney failure with other specified pathological lesion in kidney	ICD-9-CM	Diagnosis
584.9	Acute kidney failure, unspecified	ICD-9-CM	Diagnosis
585.1	Chronic kidney disease, Stage I	ICD-9-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM	Diagnosis
585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM	Diagnosis
585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM	Diagnosis
585.5	Chronic kidney disease, Stage V	ICD-9-CM	Diagnosis
585.6	End stage renal disease	ICD-9-CM	Diagnosis
585.9	Chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
586	Unspecified renal failure	ICD-9-CM	Diagnosis
587	Unspecified renal sclerosis	ICD-9-CM	Diagnosis
588.0	Renal osteodystrophy	ICD-9-CM	Diagnosis
588.1	Nephrogenic diabetes insipidus	ICD-9-CM	Diagnosis
588.81	Secondary hyperparathyroidism (of renal origin)	ICD-9-CM	Diagnosis
588.89	Other specified disorders resulting from impaired renal function	ICD-9-CM	Diagnosis
588.9	Unspecified disorder resulting from impaired renal function	ICD-9-CM	Diagnosis
591	Hydronephrosis	ICD-9-CM	Diagnosis
753.12	Congenital polycystic kidney, unspecified type	ICD-9-CM	Diagnosis
753.13	Congenital polycystic kidney, autosomal dominant	ICD-9-CM	Diagnosis
753.14	Congenital polycystic kidney, autosomal recessive	ICD-9-CM	Diagnosis
753.15	Congenital renal dysplasia	ICD-9-CM	Diagnosis
753.16	Congenital medullary cystic kidney	ICD-9-CM	Diagnosis
753.17	Congenital medullary sponge kidney	ICD-9-CM	Diagnosis
753.19	Other specified congenital cystic kidney disease	ICD-9-CM	Diagnosis
753.20	Unspecified obstructive defect of renal pelvis and ureter	ICD-9-CM	Diagnosis
753.21	Congenital obstruction of ureteropelvic junction	ICD-9-CM	Diagnosis
753.22	Congenital obstruction of ureterovesical junction	ICD-9-CM	Diagnosis
753.23	Congenital ureterocele	ICD-9-CM	Diagnosis
753.29	Other obstructive defect of renal pelvis and ureter	ICD-9-CM	Diagnosis
794.4	Nonspecific abnormal results of kidney function study	ICD-9-CM	Diagnosis
R94.4	Abnormal results of kidney function studies	ICD-10-CM	Diagnosis
Q62.39	Other obstructive defects of renal pelvis and ureter	ICD-10-CM	Diagnosis
Q62.32	Cecoureterocele	ICD-10-CM	Diagnosis
Q62.31	Congenital ureterocele, orthotopic	ICD-10-CM	Diagnosis
Q62.2	Congenital megaureter	ICD-10-CM	Diagnosis
Q62.12	Congenital occlusion of ureterovesical orifice	ICD-10-CM	Diagnosis
Q62.11	Congenital occlusion of ureteropelvic junction	ICD-10-CM	Diagnosis
Q62.10	Congenital occlusion of ureter, unspecified	ICD-10-CM	Diagnosis
Q62.0	Congenital hydronephrosis	ICD-10-CM	Diagnosis
Q61.8	Other cystic kidney diseases	ICD-10-CM	Diagnosis
Q61.5	Medullary cystic kidney	ICD-10-CM	Diagnosis
Q61.4	Renal dysplasia	ICD-10-CM	Diagnosis
Q61.3	Polycystic kidney, unspecified	ICD-10-CM	Diagnosis
Q61.2	Polycystic kidney, adult type	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
Q61.19	Other polycystic kidney, infantile type	ICD-10-CM	Diagnosis
Q61.11	Cystic dilatation of collecting ducts	ICD-10-CM	Diagnosis
Q61.02	Congenital multiple renal cysts	ICD-10-CM	Diagnosis
N26.9	Renal sclerosis, unspecified	ICD-10-CM	Diagnosis
N26.1	Atrophy of kidney (terminal)	ICD-10-CM	Diagnosis
N25.9	Disorder resulting from impaired renal tubular function, unspecified	ICD-10-CM	Diagnosis
N25.89	Other disorders resulting from impaired renal tubular function	ICD-10-CM	Diagnosis
N25.81	Secondary hyperparathyroidism of renal origin	ICD-10-CM	Diagnosis
N25.1	Nephrogenic diabetes insipidus	ICD-10-CM	Diagnosis
N25.0	Renal osteodystrophy	ICD-10-CM	Diagnosis
N19	Unspecified kidney failure	ICD-10-CM	Diagnosis
N18.9	Chronic kidney disease, unspecified	ICD-10-CM	Diagnosis
N18.6	End stage renal disease	ICD-10-CM	Diagnosis
N18.5	Chronic kidney disease, stage 5	ICD-10-CM	Diagnosis
N18.4	Chronic kidney disease, stage 4 (severe)	ICD-10-CM	Diagnosis
N18.3	Chronic kidney disease, stage 3 (moderate)	ICD-10-CM	Diagnosis
N18.2	Chronic kidney disease, stage 2 (mild)	ICD-10-CM	Diagnosis
N18.1	Chronic kidney disease, stage 1	ICD-10-CM	Diagnosis
N17.9	Acute kidney failure, unspecified	ICD-10-CM	Diagnosis
N17.8	Other acute kidney failure	ICD-10-CM	Diagnosis
N17.2	Acute kidney failure with medullary necrosis	ICD-10-CM	Diagnosis
N17.1	Acute kidney failure with acute cortical necrosis	ICD-10-CM	Diagnosis
N17.0	Acute kidney failure with tubular necrosis	ICD-10-CM	Diagnosis
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	ICD-10-CM	Diagnosis
N15.9	Renal tubulo-interstitial disease, unspecified	ICD-10-CM	Diagnosis
N15.8	Other specified renal tubulo-interstitial diseases	ICD-10-CM	Diagnosis
N15.0	Balkan nephropathy	ICD-10-CM	Diagnosis
N14.4	Toxic nephropathy, not elsewhere classified	ICD-10-CM	Diagnosis
N14.3	Nephropathy induced by heavy metals	ICD-10-CM	Diagnosis
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	ICD-10-CM	Diagnosis
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	ICD-10-CM	Diagnosis
N14.0	Analgesic nephropathy	ICD-10-CM	Diagnosis
N13.39	Other hydronephrosis	ICD-10-CM	Diagnosis
N13.30	Unspecified hydronephrosis	ICD-10-CM	Diagnosis
N13.2	Hydronephrosis with renal and ureteral calculous obstruction	ICD-10-CM	Diagnosis
N13.1	Hydronephrosis with ureteral stricture, not elsewhere classified	ICD-10-CM	Diagnosis
N08	Glomerular disorders in diseases classified elsewhere	ICD-10-CM	Diagnosis
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	ICD-10-CM	Diagnosis
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	ICD-10-CM	Diagnosis

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Code	Description	Code Type	Code Category
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	ICD-10-CM	Diagnosis
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary	ICD-10-CM	Diagnosis
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous	ICD-10-CM	Diagnosis
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	ICD-10-CM	Diagnosis
N06.9	Isolated proteinuria with unspecified morphologic lesion	ICD-10-CM	Diagnosis
N06.8	Isolated proteinuria with other morphologic lesion	ICD-10-CM	Diagnosis
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N06.6	Isolated proteinuria with dense deposit disease	ICD-10-CM	Diagnosis
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM	Diagnosis
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N06.0	Isolated proteinuria with minor glomerular abnormality	ICD-10-CM	Diagnosis
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	ICD-10-CM	Diagnosis
N05.8	Unspecified nephritic syndrome with other morphologic changes	ICD-10-CM	Diagnosis
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N05.6	Unspecified nephritic syndrome with dense deposit disease	ICD-10-CM	Diagnosis
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM	Diagnosis
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative	ICD-10-CM	Diagnosis
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	ICD-10-CM	Diagnosis
N04.9	Nephrotic syndrome with unspecified morphologic changes	ICD-10-CM	Diagnosis
N04.8	Nephrotic syndrome with other morphologic changes	ICD-10-CM	Diagnosis
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N04.6	Nephrotic syndrome with dense deposit disease	ICD-10-CM	Diagnosis
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM	Diagnosis
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis

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Code	Description	Code Type	Code Category
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N04.0	Nephrotic syndrome with minor glomerular abnormality	ICD-10-CM	Diagnosis
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	ICD-10-CM	Diagnosis
N03.8	Chronic nephritic syndrome with other morphologic changes	ICD-10-CM	Diagnosis
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N03.6	Chronic nephritic syndrome with dense deposit disease	ICD-10-CM	Diagnosis
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM	Diagnosis
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative	ICD-10-CM	Diagnosis
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	ICD-10-CM	Diagnosis
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	ICD-10-CM	Diagnosis
N02.8	Recurrent and persistent hematuria with other morphologic changes	ICD-10-CM	Diagnosis
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N02.6	Recurrent and persistent hematuria with dense deposit disease	ICD-10-CM	Diagnosis
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary	ICD-10-CM	Diagnosis
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	ICD-10-CM	Diagnosis
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	ICD-10-CM	Diagnosis
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	ICD-10-CM	Diagnosis
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	ICD-10-CM	Diagnosis
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary	ICD-10-CM	Diagnosis
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative	ICD-10-CM	Diagnosis
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	ICD-10-CM	Diagnosis
N00.9	Acute nephritic syndrome with unspecified morphologic changes	ICD-10-CM	Diagnosis
N00.8	Acute nephritic syndrome with other morphologic changes	ICD-10-CM	Diagnosis
N00.7	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM	Diagnosis
N00.6	Acute nephritic syndrome with dense deposit disease	ICD-10-CM	Diagnosis
N00.5	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
N00.4	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N00.3	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM	Diagnosis
N00.2	Acute nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM	Diagnosis
N00.1	Acute nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM	Diagnosis
N00.0	Acute nephritic syndrome with minor glomerular abnormality	ICD-10-CM	Diagnosis
M35.04	Sicca syndrome with tubulo-interstitial nephropathy	ICD-10-CM	Diagnosis
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.14	Glomerular disease in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M10.39	Gout due to renal impairment, multiple sites	ICD-10-CM	Diagnosis
M10.38	Gout due to renal impairment, vertebrae	ICD-10-CM	Diagnosis
M10.379	Gout due to renal impairment, unspecified ankle and foot	ICD-10-CM	Diagnosis
M10.372	Gout due to renal impairment, left ankle and foot	ICD-10-CM	Diagnosis
M10.371	Gout due to renal impairment, right ankle and foot	ICD-10-CM	Diagnosis
M10.369	Gout due to renal impairment, unspecified knee	ICD-10-CM	Diagnosis
M10.362	Gout due to renal impairment, left knee	ICD-10-CM	Diagnosis
M10.361	Gout due to renal impairment, right knee	ICD-10-CM	Diagnosis
M10.359	Gout due to renal impairment, unspecified hip	ICD-10-CM	Diagnosis
M10.352	Gout due to renal impairment, left hip	ICD-10-CM	Diagnosis
M10.351	Gout due to renal impairment, right hip	ICD-10-CM	Diagnosis
M10.349	Gout due to renal impairment, unspecified hand	ICD-10-CM	Diagnosis
M10.342	Gout due to renal impairment, left hand	ICD-10-CM	Diagnosis
M10.341	Gout due to renal impairment, right hand	ICD-10-CM	Diagnosis
M10.339	Gout due to renal impairment, unspecified wrist	ICD-10-CM	Diagnosis
M10.332	Gout due to renal impairment, left wrist	ICD-10-CM	Diagnosis
M10.331	Gout due to renal impairment, right wrist	ICD-10-CM	Diagnosis
M10.329	Gout due to renal impairment, unspecified elbow	ICD-10-CM	Diagnosis
M10.322	Gout due to renal impairment, left elbow	ICD-10-CM	Diagnosis
M10.321	Gout due to renal impairment, right elbow	ICD-10-CM	Diagnosis
M10.319	Gout due to renal impairment, unspecified shoulder	ICD-10-CM	Diagnosis
M10.312	Gout due to renal impairment, left shoulder	ICD-10-CM	Diagnosis
M10.311	Gout due to renal impairment, right shoulder	ICD-10-CM	Diagnosis
M10.30	Gout due to renal impairment, unspecified site	ICD-10-CM	Diagnosis
K76.7	Hepatorenal syndrome	ICD-10-CM	Diagnosis
I72.2	Aneurysm of renal artery	ICD-10-CM	Diagnosis
I70.1	Atherosclerosis of renal artery	ICD-10-CM	Diagnosis
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	ICD-10-CM	Diagnosis
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	ICD-10-CM	Diagnosis
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM	Diagnosis
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	ICD-10-CM	Diagnosis
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM	Diagnosis
E74.8	Other specified disorders of carbohydrate metabolism	ICD-10-CM	Diagnosis
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E13.21	Other specified diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM	Diagnosis
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM	Diagnosis
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	ICD-10-CM	Diagnosis
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	ICD-10-CM	Diagnosis
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	ICD-10-CM	Diagnosis
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	ICD-10-CM	Diagnosis
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	ICD-10-CM	Diagnosis
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	ICD-10-CM	Diagnosis
D59.3	Hemolytic-uremic syndrome	ICD-10-CM	Diagnosis
D41.22	Neoplasm of uncertain behavior of left ureter	ICD-10-CM	Diagnosis
D41.21	Neoplasm of uncertain behavior of right ureter	ICD-10-CM	Diagnosis
D41.20	Neoplasm of uncertain behavior of unspecified ureter	ICD-10-CM	Diagnosis
D41.12	Neoplasm of uncertain behavior of left renal pelvis	ICD-10-CM	Diagnosis
D41.11	Neoplasm of uncertain behavior of right renal pelvis	ICD-10-CM	Diagnosis
D41.10	Neoplasm of uncertain behavior of unspecified renal pelvis	ICD-10-CM	Diagnosis
D41.02	Neoplasm of uncertain behavior of left kidney	ICD-10-CM	Diagnosis
D41.01	Neoplasm of uncertain behavior of right kidney	ICD-10-CM	Diagnosis
D41.00	Neoplasm of uncertain behavior of unspecified kidney	ICD-10-CM	Diagnosis
D30.02	Benign neoplasm of left kidney	ICD-10-CM	Diagnosis
D30.01	Benign neoplasm of right kidney	ICD-10-CM	Diagnosis
D30.00	Benign neoplasm of unspecified kidney	ICD-10-CM	Diagnosis
C68.9	Malignant neoplasm of urinary organ, unspecified	ICD-10-CM	Diagnosis
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
C64.2	Malignant neoplasm of left kidney, except renal pelvis	ICD-10-CM	Diagnosis
C64.1	Malignant neoplasm of right kidney, except renal pelvis	ICD-10-CM	Diagnosis
B52.0	Plasmodium malariae malaria with nephropathy	ICD-10-CM	Diagnosis
A52.75	Syphilis of kidney and ureter	ICD-10-CM	Diagnosis
A18.11	Tuberculosis of kidney and ureter	ICD-10-CM	Diagnosis
Left Ventricular Hypertrophy			
429.3	Cardiomegaly	ICD-9-CM	Diagnosis
I51.7	Cardiomegaly	ICD-10-CM	Diagnosis
Pyelonephritis			
590.0	Chronic pyelonephritis	ICD-9-CM	Diagnosis
590.00	Chronic pyelonephritis without lesion of renal medullary necrosis	ICD-9-CM	Diagnosis
590.01	Chronic pyelonephritis with lesion of renal medullary necrosis	ICD-9-CM	Diagnosis
590.1	Acute pyelonephritis	ICD-9-CM	Diagnosis
590.10	Acute pyelonephritis without lesion of renal medullary necrosis	ICD-9-CM	Diagnosis
590.11	Acute pyelonephritis with lesion of renal medullary necrosis	ICD-9-CM	Diagnosis
590.8	Other pyelonephritis or pyonephrosis, not specified as acute or chronic	ICD-9-CM	Diagnosis
590.80	Unspecified pyelonephritis	ICD-9-CM	Diagnosis
590.81	Pyelitis or pyelonephritis in diseases classified elsewhere	ICD-9-CM	Diagnosis
A02.25	Salmonella pyelonephritis	ICD-10-CM	Diagnosis
D86.84	Sarcoid pyelonephritis	ICD-10-CM	Diagnosis
N10	Acute pyelonephritis	ICD-10-CM	Diagnosis
N11.0	Nonobstructive reflux-associated chronic pyelonephritis	ICD-10-CM	Diagnosis
N11.1	Chronic obstructive pyelonephritis	ICD-10-CM	Diagnosis
N11.8	Other chronic tubulo-interstitial nephritis	ICD-10-CM	Diagnosis
N11.9	Chronic tubulo-interstitial nephritis, unspecified	ICD-10-CM	Diagnosis
N12	Tubulo-interstitial nephritis, not specified as acute or chronic	ICD-10-CM	Diagnosis
N13.6	Pyonephrosis	ICD-10-CM	Diagnosis
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	ICD-10-CM	Diagnosis
Vesicoureteral Reflux			
593.7	Vesicoureteral reflux	ICD-9-CM	Diagnosis
593.70	Vesicoureteral reflux, unspecified or without reflux nephropathy	ICD-9-CM	Diagnosis
593.71	Vesicoureteral reflux with reflux nephropathy, unilateral	ICD-9-CM	Diagnosis
593.72	Vesicoureteral reflux with reflux nephropathy, bilateral	ICD-9-CM	Diagnosis
593.73	Vesicoureteral reflux with reflux nephropathy, NOS	ICD-9-CM	Diagnosis
N13.7	Vesicoureteral-reflux	ICD-10-CM	Diagnosis
N13.70	Vesicoureteral-reflux, unspecified	ICD-10-CM	Diagnosis
N13.71	Vesicoureteral-reflux without reflux nephropathy	ICD-10-CM	Diagnosis
N13.72	Vesicoureteral-reflux with reflux nephropathy without hydroureter	ICD-10-CM	Diagnosis
N13.721	Vesicoureteral-reflux with reflux nephropathy without hydroureter, unilateral	ICD-10-CM	Diagnosis
N13.722	Vesicoureteral-reflux with reflux nephropathy without hydroureter, bilateral	ICD-10-CM	Diagnosis
N13.729	Vesicoureteral-reflux with reflux nephropathy without hydroureter, unspecified	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
N13.73	Vesicoureteral-reflux with reflux nephropathy with hydroureter	ICD-10-CM	Diagnosis
N13.731	Vesicoureteral-reflux with reflux nephropathy with hydroureter, unilateral	ICD-10-CM	Diagnosis
N13.732	Vesicoureteral-reflux with reflux nephropathy with hydroureter, bilateral	ICD-10-CM	Diagnosis
N13.739	Vesicoureteral-reflux with reflux nephropathy with hydroureter, unspecified	ICD-10-CM	Diagnosis
N13.9	Obstructive and reflux uropathy, unspecified	ICD-10-CM	Diagnosis
Neurofibromatosis, Type 1			
237.71	Neurofibromatosis, Type 1 (von Recklinghausen's disease)	ICD-9-CM	Diagnosis
Q85.01	Neurofibromatosis, type 1	ICD-10-CM	Diagnosis
Hyperthyroidism			
242	Thyrotoxicosis with or without goiter	ICD-9-CM	Diagnosis
242.0	Toxic diffuse goiter	ICD-9-CM	Diagnosis
242.00	Toxic diffuse goiter without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.01	Toxic diffuse goiter with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.1	Toxic uninodular goiter	ICD-9-CM	Diagnosis
242.10	Toxic uninodular goiter without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.11	Toxic uninodular goiter with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.2	Toxic multinodular goiter	ICD-9-CM	Diagnosis
242.20	Toxic multinodular goiter without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.21	Toxic multinodular goiter with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.3	Toxic nodular goiter, unspecified type	ICD-9-CM	Diagnosis
242.30	Toxic nodular goiter, unspecified type, without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.31	Toxic nodular goiter, unspecified type, with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.4	Thyrotoxicosis from ectopic thyroid nodule	ICD-9-CM	Diagnosis
242.40	Thyrotoxicosis from ectopic thyroid nodule without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.41	Thyrotoxicosis from ectopic thyroid nodule with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.8	Thyrotoxicosis of other specified origin	ICD-9-CM	Diagnosis
242.80	Thyrotoxicosis of other specified origin without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.81	Thyrotoxicosis of other specified origin with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.9	Thyrotoxicosis without mention of goiter or other cause	ICD-9-CM	Diagnosis
242.90	Thyrotoxicosis without mention of goiter or other cause, without mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
242.91	Thyrotoxicosis without mention of goiter or other cause, with mention of thyrotoxic crisis or storm	ICD-9-CM	Diagnosis
E05.00	Thyrotoxicosis with diffuse goiter without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.01	Thyrotoxicosis with diffuse goiter with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.10	Thyrotoxicosis with toxic single thyroid nodule without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.11	Thyrotoxicosis with toxic single thyroid nodule with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.20	Thyrotoxicosis with toxic multinodular goiter without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.21	Thyrotoxicosis with toxic multinodular goiter with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.30	Thyrotoxicosis from ectopic thyroid tissue without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.31	Thyrotoxicosis from ectopic thyroid tissue with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Type	Code Category
E05.40	Thyrotoxicosis factitia without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.41	Thyrotoxicosis factitia with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.80	Other thyrotoxicosis without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.81	Other thyrotoxicosis with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.90	Thyrotoxicosis, unspecified without thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
E05.91	Thyrotoxicosis, unspecified with thyrotoxic crisis or storm	ICD-10-CM	Diagnosis
Tuberous Sclerosis			
759.5	Tuberous sclerosis	ICD-9-CM	Diagnosis
Q85.1	Tuberous sclerosis	ICD-10-CM	Diagnosis
Systemic Lupus Erythematosus			
710.0	Systemic lupus erythematosus	ICD-9-CM	Diagnosis
M32.0	Drug-induced systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.10	Systemic lupus erythematosus, organ or system involvement unspecified	ICD-10-CM	Diagnosis
M32.11	Endocarditis in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.12	Pericarditis in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.13	Lung involvement in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.14	Glomerular disease in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.19	Other organ or system involvement in systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.8	Other forms of systemic lupus erythematosus	ICD-10-CM	Diagnosis
M32.9	Systemic lupus erythematosus, unspecified	ICD-10-CM	Diagnosis
Cushing's Syndrome			
255.0	Cushing's syndrome	ICD-9-CM	Diagnosis
E24	Cushing's syndrome	ICD-10-CM	Diagnosis
E24.0	Pituitary-dependent Cushing's disease	ICD-10-CM	Diagnosis
E24.2	Drug-induced Cushing's syndrome	ICD-10-CM	Diagnosis
E24.3	Ectopic ACTH syndrome	ICD-10-CM	Diagnosis
E24.4	Alcohol-induced pseudo-Cushing's syndrome	ICD-10-CM	Diagnosis
E24.8	Other Cushing's syndrome	ICD-10-CM	Diagnosis
E24.9	Cushing's syndrome, unspecified	ICD-10-CM	Diagnosis
Williams Syndrome			
758.9	Conditions due to anomaly of unspecified chromosome	ICD-9-CM	Diagnosis
Q93.82	Williams syndrome	ICD-10-CM	Diagnosis
Turner's Syndrome			
758.6	Gonadal dysgenesis	ICD-9-CM	Diagnosis
Q96	Turner's syndrome	ICD-10-CM	Diagnosis
Q96.8	Other variants of Turner's syndrome	ICD-10-CM	Diagnosis
Q96.9	Turner's syndrome, unspecified	ICD-10-CM	Diagnosis
Blood Pressure Exam			
Z01.30	Encounter for examination of blood pressure without abnormal findings	ICD-10-CM	Diagnosis
Z01.31	Encounter for examination of blood pressure with abnormal findings	ICD-10-CM	Diagnosis

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Angiotensin Receptor Blockers	
Cozaar	losartan potassium
Avapro	irbesartan
Losartan	losartan potassium
Irbesartan	irbesartan
Telmisartan	telmisartan
Teveten	eprosartan mesylate
Diovan	valsartan
Valsartan	valsartan
Olmesartan	olmesartan medoxomil
Atacand	candesartan cilexetil
Eprosartan	eprosartan mesylate
Micardis	telmisartan
Candesartan	candesartan cilexetil
Benicar	olmesartan medoxomil
Edarbi	azilsartan medoxomil
Angiotensin-Converting Enzyme Inhibitors	
Prinivil	lisinopril
Aceon	perindopril erbumine
Ramipril	ramipril
Perindopril Erbumine	perindopril erbumine
Accupril	quinapril HCl
Mavik	trandolapril
Lotensin	benazepril HCl
Monopril	fosinopril sodium
Univasc	moexipril HCl
Moexipril	moexipril HCl
Enalapril Maleate	enalapril maleate
Quinapril	quinapril HCl
Benazepril	benazepril HCl
Fosinopril	fosinopril sodium
Trandolapril	trandolapril
Captopril	captopril
Lisinopril	lisinopril
Enalaprilat	enalaprilat dihydrate
Vasotec	enalapril maleate
Zestril	lisinopril
Altace	ramipril
Capoten	captopril
Captopril (bulk)	captopril
Enalapril Maleate (bulk)	enalapril maleate
Lisinopril (bulk)	lisinopril
Benazepril Hcl (bulk)	benazepril HCl
Epaned	enalapril maleate

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Qbrelis	lisinopril
Lytensopril	lisinopril/dietary supplement,comb.10
Lytensopril-90	lisinopril/dietary supplement,comb.10
Alpha Antagonists	
Cardura XL	doxazosin mesylate
Cardura	doxazosin mesylate
Phenoxybenzamine	phenoxybenzamine HCl
Minipress	prazosin HCl
Hytrin	terazosin HCl
Terazosin	terazosin HCl
Doxazosin	doxazosin mesylate
Prazosin	prazosin HCl
Phentolamine	phentolamine mesylate
Phentolamine Mesylate (bulk)	phentolamine mesylate
Doxazosin Mesylate (bulk)	doxazosin mesylate
Dibenzylamine	phenoxybenzamine HCl
Beta-Blockers	
Coreg CR	carvedilol phosphate
Coreg	carvedilol
Carvedilol	carvedilol
Labetalol	labetalol HCl
Labetalol (bulk)	labetalol HCl
Carvedilol phosphate	carvedilol phosphate
Normodyne	labetalol HCl
Trandate	labetalol HCl
Labetalol in dextrose 5 %	labetalol in dextrose 5 % in water
Kerlone	betaxolol HCl
Lopressor	metoprolol tartrate
Metoprolol tartrate	metoprolol tartrate
Atenolol	atenolol
Bisoprolol fumarate	bisoprolol fumarate
Metoprolol succinate	metoprolol succinate
Toprol XL	metoprolol succinate
Tenormin	atenolol
Acebutolol	acebutolol HCl
Bystolic	nebivolol HCl
Esmolol	esmolol HCl
Brevibloc	esmolol HCl
Brevibloc in NaCl (iso-osm)	esmolol HCl in sodium chloride, iso-osmotic
Betaxolol	betaxolol HCl
Kapsargo Sprinkle	metoprolol succinate
Atenolol (bulk)	atenolol
Metoprolol tartrate (bulk)	metoprolol tartrate
Esmolol in sterile water	esmolol HCl in sterile water

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Zebeta	bisoprolol fumarate
Esmolol in NaCl (iso-osm)	esmolol HCl in sodium chloride, iso-osmotic
Sectral	acebutolol HCl
Hypertensolol	metoprolol tartrate/dietary supplement,comb.10
Inderal	propranolol HCl
Inderal LA	propranolol HCl
Propranolol	propranolol HCl
Levatol	penbutolol sulfate
Sotalol	sotalol HCl
Nadolol	nadolol
Sotalol AF	sotalol HCl
InnoPran XL	propranolol HCl
Sorine	sotalol HCl
Pindolol	pindolol
Timolol maleate	timolol maleate
Sotylize	sotalol HCl
Corgard	nadolol
Propranolol (bulk)	propranolol HCl
Timolol maleate (bulk)	timolol maleate
Betapace	sotalol HCl
Betapace AF	sotalol HCl
Nadolol (bulk)	nadolol
Inderal XL	propranolol HCl
Hemangeol	propranolol HCl
Calcium Channel Blockers	
Cardene SR	nicardipine HCl
Calan	verapamil HCl
Calan SR	verapamil HCl
Covera-HS	verapamil HCl
Nimotop	nimodipine
Amlodipine	amlodipine besylate
Norvasc	amlodipine besylate
Procardia	nifedipine
Procardia XL	nifedipine
Verapamil	verapamil HCl
diltiazem HCl	diltiazem HCl
Cardizem LA	diltiazem HCl
Adalat CC	nifedipine
Cardizem	diltiazem HCl
Verelan	verapamil HCl
Verelan PM	verapamil HCl
Nicardipine	nicardipine HCl
Nifedical XL	nifedipine
Nifediac CC	nifedipine

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Nifedipine	nifedipine
DynaCirc CR	isradipine
Plendil	felodipine
Cardizem CD	diltiazem HCl
Tiazac	diltiazem HCl
Nisoldipine	nisoldipine
Felodipine	felodipine
Verapamil (bulk)	verapamil HCl
Amlodipine besylate (bulk)	amlodipine besylate
Nifedipine, micronized (bulk)	nifedipine, micronized
Cartia XT	diltiazem HCl
Diltia XT	diltiazem HCl
Nimodipine	nimodipine
Afeditab CR	nifedipine
Cardene IV in sodium chloride	nicardipine in sodium chloride, iso-osmotic
Cardene IV in dextrose	nicardipine in dextrose, iso-osmotic
Cleviprex	clevidipine butyrate
Isoptin SR	verapamil HCl
Diltiazem in dextrose 5 %	diltiazem HCl/dextrose 5 % in water
Isradipine	isradipine
Nymalize	nimodipine
Cardene IV	nicardipine HCl
Sular	nisoldipine
Nicardipine in 0.9 % NaCl	nicardipine HCl in 0.9 % sodium chloride
Dilacor XR	diltiazem HCl
Matzim LA	diltiazem HCl
DynaCirc	isradipine
DILT-XR	diltiazem HCl
DILT-CD	diltiazem HCl
Diltzac ER	diltiazem HCl
Tazia XT	diltiazem HCl
Diltiazem HCl in 0.9% NaCl	diltiazem HCl in 0.9 % sodium chloride
Nicardipine in 5% dextrose	nicardipine in 5 % dextrose in water
Nimodipine (bulk)	nimodipine
Central Alpha-Agonists	
Methyldopate	methyldopate HCl
Methyldopa	methyldopa
Guanabenz	guanabenz acetate
Clonidine HCl	clonidine HCl
Clonidine	clonidine
Guanfacine	guanfacine HCl
Catapres	clonidine HCl
Catapres-TTS-1	clonidine
Catapres-TTS-2	clonidine

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Catapres-TTS-3	clonidine
Nexiclon XR	clonidine HCl
Guanabenz (bulk)	guanabenz acetate
Guanfacine (bulk)	guanfacine HCl
Tenex	guanfacine HCl
Direct Renin Inhibitors	
Tekturna	aliskiren hemifumarate
Aliskiren	aliskiren hemifumarate
Direct Vasodilators	
Hydralazine	hydralazine HCl
Nitropress	nitroprusside sodium
Minoxidil	minoxidil
Sodium nitroprusside	nitroprusside sodium
Diazoxide (bulk)	diazoxide
Nipride RTU	nitroprusside sodium in 0.9 % sodium chloride
Tolazoline (bulk)	tolazoline HCl
Diuretics	
Bumex	bumetanide
Demadex	toremide
Edecrin	ethacrynic acid
Diuril	chlorothiazide
Aldactone	spironolactone
Lasix	furosemide
Toremide	toremide
Ethacrynic acid	ethacrynic acid
Furosemide	furosemide
Hydrochlorothiazide	hydrochlorothiazide
Bumetanide	bumetanide
Chlorothiazide	chlorothiazide
Indapamide	indapamide
Metolazone	metolazone
Inspira	eplerenone
Methyclothiazide	methyclothiazide
Chlorthalidone	chlorthalidone
Eplerenone	eplerenone
Spironolactone	spironolactone
Spironolactone (bulk)	spironolactone
Chlorothiazide sodium	chlorothiazide sodium
Midamor	amiloride HCl
Amiloride	amiloride HCl
Furosemide in 0.9 % NaCl	furosemide in 0.9 % sodium chloride
Hydrochlorothiazide (bulk)	hydrochlorothiazide
Methyclothiazide (bulk)	methyclothiazide
CaroSpir	spironolactone

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Spironolactone micro (bulk)	spironolactone, micronized
Ethacrynic acid (bulk)	ethacrynic acid
Microzide	hydrochlorothiazide
Zaroxolyn	metolazone
Enduron	methyclothiazide
Dyrenium	triamterene
Thalitone	chlorthalidone
Diuril IV	chlorothiazide sodium
Furosemide in dextrose 5%	furosemide/dextrose 5 % in water
Combination Products	
Inderide	propranolol HCl/hydrochlorothiazide
Lopressor HCT	metoprolol tartrate/hydrochlorothiazide
Nadolol-bendroflumethiazide	nadolol/bendroflumethiazide
Bisoprolol-hydrochlorothiazide	bisoprolol fumarate/hydrochlorothiazide
Propranolol-hydrochlorothiazid	propranolol HCl/hydrochlorothiazide
Tenoretic 50	atenolol/chlorthalidone
Tenoretic 100	atenolol/chlorthalidone
Dutoprol	metoprolol succinate/hydrochlorothiazide
Clorpres	clonidine HCl/chlorthalidone
Metoprolol ta-hydrochlorothiaz	metoprolol tartrate/hydrochlorothiazide
Methyldopa-hydrochlorothiazide	methyldopa/hydrochlorothiazide
Atenolol-chlorthalidone	atenolol/chlorthalidone
Hydra-Zide	hydralazine HCl/hydrochlorothiazide
Ziac	bisoprolol fumarate/hydrochlorothiazide
Corzide	nadolol/bendroflumethiazide
Metoprolol su-hydrochlorothiaz	metoprolol succinate/hydrochlorothiazide
Hyzaar	losartan potassium/hydrochlorothiazide
Byvalson	nebivolol HCl/valsartan
Avalide	irbesartan/hydrochlorothiazide
Losartan-hydrochlorothiazide	losartan potassium/hydrochlorothiazide
Irbesartan-hydrochlorothiazide	irbesartan/hydrochlorothiazide
Telmisartan-hydrochlorothiazid	telmisartan/hydrochlorothiazide
Teveten HCT	eprosartan mesylate/hydrochlorothiazide
Diovan HCT	valsartan/hydrochlorothiazide
Exforge	amlodipine besylate/valsartan
Exforge HCT	amlodipine besylate/valsartan/hydrochlorothiazide
Entresto	sacubitril/valsartan
Olmesartan-amlodipin-hcthiazid	olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide
Amlodipine-olmesartan	amlodipine besylate/olmesartan medoxomil
Amlodipine-valsartan-hcthiazid	amlodipine besylate/valsartan/hydrochlorothiazide
Olmesartan-hydrochlorothiazide	olmesartan medoxomil/hydrochlorothiazide
Amlodipine-valsartan	amlodipine besylate/valsartan
Atacand HCT	candesartan cilexetil/hydrochlorothiazide
Telmisartan-amlodipine	telmisartan/amlodipine besylate

Appendix D. List of Generic and Brand Medical Product Names Used to Define Baseline Characteristics in this Request

Brand Name	Generic Name
Candesartan-hydrochlorothiazid	candesartan cilexetil/hydrochlorothiazide
Valsartan-hydrochlorothiazide	valsartan/hydrochlorothiazide
Micardis HCT	telmisartan/hydrochlorothiazide
Twynsta	telmisartan/amlodipine besylate
Benicar HCT	olmesartan medoxomil/hydrochlorothiazide
Azor	amlodipine besylate/olmesartan medoxomil
Edarbyclor	azilsartan medoxomil/chlorthalidone
Tribenzor	olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide
Aldactazide	spironolactone/hydrochlorothiazide
Spiroonolacton-hydrochlorothiaz	spironolactone/hydrochlorothiazide
Prinzide	lisinopril/hydrochlorothiazide
Accuretic	quinapril HCl/hydrochlorothiazide
Tarka	trandolapril/verapamil HCl
Lotrel	amlodipine besylate/benazepril HCl
Lotensin HCT	benazepril HCl/hydrochlorothiazide
Monopril HCT	fosinopril sodium/hydrochlorothiazide
Uniretic	moexipril HCl/hydrochlorothiazide
Captopril-hydrochlorothiazide	captopril/hydrochlorothiazide
Lisinopril-hydrochlorothiazide	lisinopril/hydrochlorothiazide
Enalapril-hydrochlorothiazide	enalapril maleate/hydrochlorothiazide
Moexipril-hydrochlorothiazide	moexipril HCl/hydrochlorothiazide
Amlodipine-benazepril	amlodipine besylate/benazepril HCl
Benazepril-hydrochlorothiazide	benazepril HCl/hydrochlorothiazide
Fosinopril-hydrochlorothiazide	fosinopril sodium/hydrochlorothiazide
Lexxel	enalapril maleate/felodipine
Vaseretic	enalapril maleate/hydrochlorothiazide
Zestoretic	lisinopril/hydrochlorothiazide
Quinapril-hydrochlorothiazide	quinapril HCl/hydrochlorothiazide
Capozide	captopril/hydrochlorothiazide
Trandolapril-verapamil	trandolapril/verapamil HCl
Quinaretic	quinapril HCl/hydrochlorothiazide
Prestalia	perindopril arginine/amlodipine besylate
Dyazide	triamterene/hydrochlorothiazide
Triamterene-hydrochlorothiazid	triamterene/hydrochlorothiazide
Maxzide	triamterene/hydrochlorothiazide
Maxzide-25mg	triamterene/hydrochlorothiazide
Amiloride-hydrochlorothiazide	amiloride HCl/hydrochlorothiazide
Tekturna HCT	aliskiren hemifumarate/hydrochlorothiazide

Appendix E. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) module, version 8.1.0 to estimate rates of hypertension (HTN) in a pediatric population in the Sentinel Distributed Database (SDD).

Coverage requirement: Medical & Drug Coverage
Pre-index enrollment requirement: 365 days
Post-index enrollment requirement: 0 days
Enrollment gap: 45 days
Age groups: 0-2, 3-5, 6-11, 12-17 years
Stratifications: Age group, Sex, Calendar year, Race, Hispanic
Censor output categorization: 0-183, 184-364, 365-729, 730-1094, 1095+ days
Distribution of index-defining codes: Yes
Envelope macro: Reclassify encounters during inpatient stay as inpatient

Exposure

Scenario	Query Period	Index Event	Cohort Definition	Washout Period	Incident with Respect to:	Care Setting	Principal Diagnosis Position	Censor Enrollment at Evidence of
1	January 1, 2008 - Most recent available data (April 30, 2019)	Hypertension definition 1: 2 Outpatient HTN claims (combo) OR 1 inpatient HTN claim	Any valid index date during query period	0	N/A	Emergency department encounter; Ambulatory visit; Other ambulatory visit; Non-Acute Institutional Stay OR Inpatient hospital stay	N/A Any	Death; Data Partner End Date; Query End Date
2	January 1, 2008 - Most recent available data (April 30, 2019)	Hypertension definition 2: Any HTN claim	Any valid index date during query period	0	N/A	Any care setting	N/A	Death; Data Partner End Date; Query End Date
3	October 1, 2015 - Most recent available data (April 30, 2019)	Hypertension definition 1: 2 Outpatient HTN claims (combo) OR 1 inpatient HTN claim	Any valid index date during query period	0	N/A	Emergency department encounter; Ambulatory visit; Other ambulatory visit; Non-Acute Institutional Stay OR Inpatient hospital stay	N/A Any	Death; Data Partner End Date; Query End Date

Appendix E. Specifications Defining Parameters Used in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) module, version 8.1.0 to estimate rates of hypertension (HTN) in a pediatric population in the Sentinel Distributed Database (SDD).

Scenario	Query Period	Index Event	Cohort Definition	Washout Period	Exposure			Principal Diagnosis Position	Censor Enrollment at Evidence of
					Incident with Respect to:	Care Setting			
4	October 1, 2015 - Most recent available data (April 30, 2019)	Hypertension definition 2: Any HTN claim	Any valid index date during query period	0	N/A	Any care setting	N/A	Death; Data Partner End Date; Query End Date	
5	October 1, 2016 - Most recent available data (April 30, 2019)	Hypertension definition 1: 2 Outpatient HTN claims (combo) OR 1 inpatient HTN claim	Any valid index date during query period	0	N/A	Emergency department encounter; Ambulatory visit; Other ambulatory visit; Non-Acute Institutional Stay OR Inpatient hospital stay	N/A Any	Death; Data Partner End Date; Query End Date	
6	October 1, 2016 - Most recent available data (April 30, 2019)	Hypertension definition 2: Any HTN claim	Any valid index date during query period	0	N/A	Any care setting	N/A	Death; Data Partner End Date; Query End Date	

International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) codes are provided by Optum360.

National Drug Codes (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."

Appendix F. Specifications Defining Combo Parameters Used in this Request

Combo

Combination description	Combination date	Encounter type for each combination component	Principal diagnosis for each combination component
2 hypertension codes in the outpatient care setting 183 days	First code to occur	Emergency department encounter; Ambulatory visit; Other ambulatory visit; Non-Acute Institutional Stay	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters Used in this Request

Baseline Characteristics						
Characteristic	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	Exclude evidence of days supply if characteristic includes dispensings	Number of instances the characteristic should be found in evaluation period
Angiotensin receptor blockers	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Angiotensin-converting enzyme inhibitors	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Alpha antagonists	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Beta-blockers	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Calcium channel blockers	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Central Alpha-agonists	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Direct renin inhibitor	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Direct vasodilators	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Diuretics	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1

Appendix G. Specifications Defining Baseline Characteristics Parameters Used in this Request

Baseline Characteristics						
Characteristic	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	Exclude evidence of days supply if characteristic includes dispensings	Number of instances the characteristic should be found in evaluation period
Combination products	N/A	N/A	-365	0	Evaluation period should search for only evidence of a dispensing date	1
Angiotensin receptor blockers	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Angiotensin-converting enzyme inhibitors	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Alpha antagonists	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Beta-blockers	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Calcium channel blockers	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Central Alpha-agonists	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Direct renin inhibitor	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Direct vasodilators	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1

Appendix G. Specifications Defining Baseline Characteristics Parameters Used in this Request

Baseline Characteristics						
Characteristic	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	Exclude evidence of days supply if characteristic includes dispensings	Number of instances the characteristic should be found in evaluation period
Diuretics	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Combination products	N/A	N/A	1	End of enrollment	Evaluation period should search for only evidence of a dispensing date	1
Blood pressure exam Z01.30*	Any care setting	N/A	-365	0	N/A	1
Blood pressure exam Z01.31*	Any care setting	N/A	-365	0	N/A	1
Obesity	Any care setting	N/A	-365	0	N/A	1
BMI	Any care setting	N/A	-365	0	N/A	1
Type 2 Diabetes	Any care setting	N/A	-365	0	N/A	1
Dyslipidemia	Any care setting	N/A	-365	0	N/A	1
Chronic Kidney Disease	Any care setting	N/A	-365	0	N/A	1
Left ventricular hypertrophy	Any care setting	N/A	-365	0	N/A	1
Pyelonephritis	Any care setting	N/A	-365	0	N/A	1
Vesicoureteral reflux	Any care setting	N/A	-365	0	N/A	1
Neurofibromatosis type 1	Any care setting	N/A	-365	0	N/A	1
Hyperthyroidism	Any care setting	N/A	-365	0	N/A	1
Tuberous sclerosis	Any care setting	N/A	-365	0	N/A	1
Systemic lupus erythematosus	Any care setting	N/A	-365	0	N/A	1
Cushing's syndrome	Any care setting	N/A	-365	0	N/A	1
Williams syndrome	Any care setting	N/A	-365	0	N/A	1

Appendix G. Specifications Defining Baseline Characteristics Parameters Used in this Request

Baseline Characteristics						
Characteristic	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	Exclude evidence of days supply if characteristic includes dispensings	Number of instances the characteristic should be found in evaluation period
Turner's syndrome	Any care setting	N/A	-365	0	N/A	1
Mean number of ambulatory encounters (AV)	AV	N/A	-365	0	N/A	N/A
Mean number of emergency room encounters (ED)	ED	N/A	-365	0	N/A	N/A
Mean number of inpatient hospital encounters (IP)	IP	N/A	-365	0	N/A	N/A
Mean number of non-acute institutional encounters (IS)	IS	N/A	-365	0	N/A	N/A
Mean number of other ambulatory encounters (OA)	OA	N/A	-365	0	N/A	N/A

*ICD-10 Sensitivity Analyses Only

Appendix I. Pictorial Summary of Index Defining Cohort Enrollment Criteria for Hypertension (HTN) Definition 2 Index Inclusion and Enrollment Criteria

