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The following report(s) provides findings from an FDA-initiated query using Sentinel. While Sentinel queries may be undertaken to assess potential medical product safety risks, they may also be initiated for various other reasons. Some examples include determining a rate or count of an identified health outcome of interest, examining medical product use, exploring the feasibility of future, more detailed analyses within Sentinel, and seeking to better understand Sentinel capabilities.

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_mpl2p_wp020: Report 3 of 4

Request ID: cder mpl2p wp020 nsdp v01

Request Description: In this report we estimated the risk of hospitalized depression comparing brand name sertraline to its authorized generic in the Sentinel Distributed Database. This is report 3 of 4. Report 1 assesses the risk of intentional self-harm. Report 2 assesses the risk of intentional self-harm and includes covariates for socioeconomic status in the propensity score models. Report 4 assesses the risk of hospitalized depression and includes covariates for socioeconomic status in the propensity score models.

<u>Sentinel Modular Program Module Used:</u> Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis (PSA) modules, Version 7.3.3, with additional programming

<u>Data Source:</u> The study period spanned from June 30, 2006 to September 30, 2015. We distributed the analytic package to 16 Data Partners (DP) on March 2, 2020. Only the results from ten DPs whose propensity score models converged are included in this report. See Appendix A for a list of the latest dates of available data for each DP included in this report. **Study Design:** This study used a retrospective new-user cohort design.

Exposures: We defined the exposures of interest, new use of brand name sertraline compared to authorized generic sertraline, using outpatient dispensing data and National Drug Codes (NDCs). Please refer to Appendix B for generic medical product names used to define exposures.

<u>Secondary Outcome of Interest:</u> We defined hospitalized depression as evidence of a primary inpatient diagnosis of a mood or depressive disorder. We excluded members with evidence of an inpatient or emergency department self-harm diagnosis on the same day. Both components of the outcome definition used International Classification of Disease, Ninth Revision, with Clinical Modification (ICD-9-CM) diagnosis codes. Please see Appendix C for specific diagnosis codes used to define intentional self-harm in this report.

Cohort Eligibility Criteria: We included members' first valid exposure that occurred between June 30, 2006 and September 30, 2015. We required members to be continuously enrolled in health plans with medical and drug coverage for at least 180 days prior to their first qualifying sertraline dispensing date (i.e., index date). The following age groups were included in the cohort: 12-17, 18-24, 25-54, 55+ years. New use was defined as no evidence of any sertraline dispensing in the 180 days prior to index. We required members to have no evidence of a traumatic brain injury diagnosis in the 180 days preceding and including the index date. We required members to have evidence of a mood or depressive disorder diagnosis in the 90 days preceding and including the index date in order to be included in the cohorts. Please see Appendix D for specific ICD-9-CM diagnosis codes used to define traumatic brain injury and mood or depressive disorder. We examined three separate cohorts:

- 1) Risk window 1-14 days: We excluded members if they had evidence of the outcome of interest on the first day of their sertraline treatment episode.
- 2) Risk window 1-365 days: We excluded members if they had evidence of the outcome of interest on the first day of their sertraline treatment episode.
- 3) Risk window 15-365 days: We excluded members if they had evidence of the outcome of interest in the first 14 days of their sertraline treatment episode.

cder_mpl2p_wp020 Page 1 of 79



Overview for Request cder_mpl2p_wp020: Report 3 of 4

<u>Follow-up Time</u>: Follow-up time began on the day of first dispensing and continued for the duration of the exposure episode. Exposure episode lengths were defined using outpatient pharmacy dispensing days supplied to create a sequence of continuous exposure. Exposure episodes were considered continuous if gaps in days supplied were 15 days or less. An episode extension of 15 days was added to the end of each exposure episode. Follow-up continued until the first occurrence of any of the following: 1) outcome occurrence; 2) evidence of a dispensing for another antidepressant; 3) evidence of a dispensing for the opposite study drug; 4) disenrollment; 5) recorded death; 6) end of exposure episode; 7) end of query period; 8) end of risk window (defined above). Please see Appendix E for a list of NDCs used to define censoring criteria.

<u>Propensity Score Estimation:</u> The PSA tool calculated propensity scores and identified matched cohorts based on propensity scores within each Data Partner. The following covariates were assessed in the 180 days prior to index date and included in the propensity score estimation: age, year, sex, Charlson/Elixhauser combined comorbidity score¹, health service and drug utilization, recorded history of analgesic opiate use, antipsychotic medication use, anxiety, anxiolytic or hypnotic medication use, behavioral disorders, lithium and other mood stabilizer use, non-sertraline antidepressant use, other psychological disorders, sleep disorder, substance abuse disorder. Please see Appendices F and G for NDC, ICD-9-CM, Healthcare Common Procedure Coding System (HCPCS) codes, and Current Procedural Terminology, Fourth Edition (CPT-4) codes.

Analysis: The matching ratio for the propensity score was 1:n (n≤10). Patients in the exposed and comparator cohorts were nearest neighbor matched, without replacement, to up to 10 exposed patients. The matching caliper was 0.05. For each comparison, we used case-centered logistic regression to calculate relative risks and 95% confidence intervals. We performed a subgroup analysis by stratifying members from the unmatched cohorts based on their age at index: 12-17, 18-24, 25-54, or 55+ years. We rematched patients within each age group and estimated relative risks and 95% confidence intervals for each subgroup.

Please see Appendix H for the specifications of parameters used in this request.

<u>Limitations:</u> Algorithms to define exposures, outcomes, inclusion and exclusion criteria, and covariates are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

Notes: Please contact the Sentinel Operations Center (info@sentinelsystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

cder_mpl2p_wp020 Page 2 of 79

¹ Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759

² Patrick AR, Miller M, Barber CW, Wang PS, Canning CF, Schneeweiss S. Identification of Hospitalizations for Intentional Self-Harm when E-Codes are Incompletely Recorded. Pharmacoepidemiol Drug Saf. 2010; 19(12): 1263-1275



	Table of Contents
CIDA Glossary	Glossary of Terms for Analyses Using Cohort Identification and Descriptive Analysis (CIDA) Tool
PSA Glossary	Glossary of Terms for Analyses Using Propensity Score Analysis (PSA) Tool
Table 1a	Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05
Table 1b	Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05
Table 1c	Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05
<u>Table 1d</u>	Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05
Table 1e	Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05
Table 1f	Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05
<u>Table 2</u>	Effect Estimates for Risk Window 1-14 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type
<u>Table 3</u>	Effect Estimates for Risk Window 1-14 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type and Age Group
<u>Table 4</u>	Effect Estimates for Risk Window 1-365 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type
<u>Table 5</u>	Effect Estimates for Risk Window 1-365 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type and Age Group
Table 6	Effect Estimates for Risk Window 15-365 Days in the Sentinel Distributed Database (SDD) from June 30,

(Secondary Outcome: Hospitalized Depression)

<u>Figure 1a</u> Histogram Depicting Propensity Score Distributions Before Matching for Risk Window 1-14 Days

Group

2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type

Table 7 Effect Estimates for Risk Window 15-365 Days in the Sentinel Distributed Database (SDD) from June 30,

2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type and Age

Page 3 of 79 cder_mpl2p_wp020



	Table of Contents
Figure 1b	Histogram Depicting Propensity Score Distributions Before Matching for Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression)
Figure 1c	Histogram Depicting Propensity Score Distributions Before Matching for Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression)
Figure 2a	Kaplan Meier Survival Curves of Weighted Informative Events and Follow-up Time for Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression), Conditional Matched Cohort
Figure 2b	Kaplan Meier Survival Curves of Weighted Informative Events and Follow-up Time for Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression), Conditional Matched Cohort
Figure 2c	Kaplan Meier Survival Curves of Weighted Informative Events and Follow-up Time for Risk Window 15- 365 Days (Secondary Outcome: Hospitalized Depression), Conditional Matched Cohort
Appendix A	Dates of Available Data for Each Data Partner (DP) as of Request End Date (September 30, 2015)
Appendix B	List of Generic and Brand Medical Product Names Used to Define Exposures in this Request
Appendix C	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Outcomes in this Request
Appendix D	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusions and Exclusion Criteria in this Request
Appendix E	List of Generic and Brand Medical Product Names Used to Define Incidence in this Request
Appendix F	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request
Appendix G	List of Generic and Brand Medical Product Names Used to Define Covariates in this Request
Appendix H	Specifications for Parameters Used to Define this Request

cder_mpl2p_wp020 Page 4 of 79



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

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).

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.

cder_mpl2p_wp020 Page 5 of 79



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

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

cder_mpl2p_wp020 Page 6 of 79



Glossary of Terms for Analyses Using Propensity Score Analysis (PSA) Tool*

Covariate - requester defined binary variable to include in the propensity score estimation model (e.g., diabetes, heart failure, etc.) during requester-defined lookback period. Requester may also choose to add any of the following categorical, continuous, or count metrics to the propensity score estimation model:

- 1. Age (continuous)
- 2. Sex
- 3. Time period (i.e., monitoring period for sequential analyses)
- 4. Year of exposure
- 5. Comorbidity score
- 6. Medical utilization number of inpatient stays
- 7. Medical utilization number of institutional stays
- 8. Medical utilization number of emergency department visits
- 9. Medical utilization number of outpatient visits
- 10. Health care utilization number of other ambulatory encounters (e.g., telemedicine, email consults)
- 11. Drug utilization number of dispensings

may select any caliper (e.g., 0.01, 0.025, and 0.05).

- 12. Drug utilization number of unique generics dispensed
- 13. Drug Utilization number of unique drug classes dispensed

Covariate Evaluation Window - specified number of days relative to index date to evaluate the occurrence of covariates of interest. Note: members are required to have continuous enrollment during the covariate evaluation window, regardless of the value included in the "Continuous enrollment before exposure" field.

Individual Level Data Return - program may return individual-level, de-identified datasets to the Sentinel Operations Center (SOC). While the datasets contain a single row per patient for each specified analysis, patient identifiers such as a patient ID are not included in the output. Individual-level datasets are returned to the SOC, aggregated, and used to calculate effect estimates via Cox (proportional hazards) regression.

Mahalanobis Distance - provides a measure of balance across all variables while accounting for their correlation. **Matching Caliper** - maximum allowed difference in propensity scores between treatment and control patients. Requester

Matching Ratio - patients in exposed and comparator groups are nearest neighbor matched by a 1:1 or 1:n (up to 10) matching ratio.

Matched Conditional and Unconditional Analysis - in a conditional matched analysis, a Cox model, stratified by Data Partner site and matched set, is run on the matched population. This can be done for both the both 1:1 and 1:n matched cohorts. In an unconditional analysis, a Cox model, stratified by Data Partner site only, is run on the matched population. This can be done for the 1:1 matched cohort only.

Propensity Score Stratification - option to stratify propensity scores based on requester-defined percentiles in the unmatched population. In a stratified analysis, a Cox model, stratified by Data Partner site, is run on the stratified population. Note that all patients identified in exposure and comparator cohorts are used in the analysis.

PSM Tool - performs effect estimation by comparing exposure propensity-score matched parallel new user cohorts. Propensity score estimation and matching are conducted within each Sentinel Data Partner site via distributed programming code; data are returned to the SOC, aggregated, and used to calculate effect estimates.

Risk-set Level Data Return - alternative to the patient-level data return approach. In this approach, the PSM tool will produce de-identified, risk-set level datasets instead of or in addition to individual-level output. Whereas each observation in the patient-level datasets represents one patient in the cohort, each observation in the risk set dataset represents one event. Risk sets are created at the Data Partner site, returned to the SOC, aggregated, and used to calculate effect estimates via case-centered logistic regression.

Subgroup Analysis - may be conducted using any requester-defined covariates. Subgroup analyses may be performed in the unmatched and the matched population.

cder_mpl2p_wp020 Page 7 of 79



Glossary of Terms for Analyses Using Propensity Score Analysis (PSA) Tool*

Zero Cell Correction - indicator for whether to screen variables with a zero correction added to each cell in the confounder/outcome 2x2 table. Recommended when the number of exposed outcomes is fewer than 150.

*all terms may not be used in this report

cder_mpl2p_wp020 Page 8 of 79



Table 1a. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical P	roduct		Covariat	e Balance
			Authorized	l Generic		
	Brand Name	Sertraline	Sertra	line		
					Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Number of patients	10,535	100.0%	584,450	100.0%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	43.7	16.7	49.8	16.9	-6.111	-0.364
	Number	Percent	Number	Percent		
Age (years)						
12-17	862	8.2%	35,360	6.1%	2.132	0.083
18-24	1,041	9.9%	49,351	8.4%	1.437	0.05
25-54	5,861	55.6%	262,955	45.0%	10.642	0.214
55+	2,771	26.3%	236,784	40.5%	-14.211	-0.305
Sex						
Female	7,818	74.2%	406,936	69.6%	4.583	0.102
Male	2,717	25.8%	177,514	30.4%	-4.583	-0.102
Year						
2006	5,481	52.0%	7,203	1.2%	50.794	1.404
2007	753	7.1%	22,475	3.8%	3.302	0.145
2008	745	7.1%	36,901	6.3%	0.758	0.03
2009	838	8.0%	61,169	10.5%	-2.512	-0.087
2010	646	6.1%	87,259	14.9%	-8.798	-0.29
2011	581	5.5%	88,405	15.1%	-9.611	-0.32
2012	471	4.5%	75,621	12.9%	-8.468	-0.304
2013	452	4.3%	76,609	13.1%	-8.817	-0.317
2014	351	3.3%	78,882	13.5%	-10.165	-0.372
2015	217	2.1%	49,926	8.5%	-6.483	-0.292
		Standard		Standard		
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity score	0.7	1.3	1.2	2	-0.473	-0.273
	Number	Percent	Number	Percent		
Anxiety	2,724	25.9%	163,480	28.0%	-2.115	-0.048
Behavioral disorders	484	4.6%	25,930	4.4%	0.158	0.008
Other psychological disorders	2,678	25.4%	151,721	26.0%	-0.54	-0.012
Sleep disorder	1,015	9.6%	70,180	12.0%	-2.373	-0.076
Substance abuse	542	5.1%	46,403	7.9%	-2.795	-0.113
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of ambulatory	10.9	11	10.6	12	0.373	0.033
encounters						
Mean number of inpatient hospital	0.2	0.7	0.3	0.8	-0.093	-0.13
encounters						
Mean number of filled prescriptions	12.2	13.6	15.5	15.6	-3.356	-0.229

cder_mpl2p_wp020 Page 9 of 79



Table 1a. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Covariate Ba	Covariate Balance			
			Authorized	Generic		
	Brand Name S	Sertraline	Sertrali	ne		
Mean number of generics	5.5	4.8	6.5	5	-0.985	-0.199
Mean number of unique drug classes	5	4.3	6	4.5	-0.917	-0.21
History of use:	Number	Percent	Number	Percent		
Analgesic opiates	2,777	26.4%	207,874	35.6%	-9.208	-0.2
Antipsychotics	780	7.4%	51,198	8.8%	-1.356	-0.05
Anxiolytics/Hypnotics	3,127	29.7%	157,106	26.9%	2.801	0.062
Lithium and other mood stabilizers	1,184	11.2%	55,829	9.6%	1.686	0.055
Non-sertraline antidepressants	4,272	40.6%	230,542	39.4%	1.105	0.023

cder_mpl2p_wp020 Page 10 of 79



Table 1b. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical P	roduct		Covariat	Covariate Balance		
			Authorized					
	Brand Name	Sertraline	Sertra	line	A la la - 4 -	Charadandia ad		
Characteristic	Neuralagu	Dougoust	Number	Dougout	Difference	Standardized Difference		
Number of patients	Number 10,072	Percent 95.6%	Number	Percent	Difference	Difference		
Number of patients	10,072	Standard	57,668	9.9% Standard	-	-		
Demographics	Mean	Deviation	Mean	Deviation				
Mean age (years)	44.1	16.8	44	17.1	0.056	0.003		
mean age (years)	Number	Percent	Number	Percent	0.030	0.003		
Age (years)	Hamber	rereent	Humber	rerecite				
12-17	791	7.9%	748	7.4%	0.424	0.016		
18-24	968	9.6%	942	9.4%	0.424	0.010		
25-54	5,586	55.5%	5,701	56.6%	-1.143	-0.024		
55+	2,727	27.1%	2,680	26.6%	0.463	0.011		
Sex	2,727	27.170	2,000	20.070	0.403	0.011		
Female	7,458	74.0%	7,449	74.0%	0.094	0.002		
Male	2,614	26.0%	2,623	26.0%	-0.094	-0.002		
Year	2,014	20.070	2,023	20.070	0.054	0.002		
2006	5,020	49.8%	5,019	49.8%	0.008	0		
2007	752	7.5%	788	7.8%	-0.36	-0.014		
2008	745	7.4%	749	7.4%	-0.04	-0.002		
2009	838	8.3%	856	8.5%	-0.183	-0.002		
2010	646	6.4%	617	6.1%	0.185	0.012		
2011	581	5.8%	579	5.7%	0.019	0.012		
2012	470	4.7%	459	4.6%	0.108	0.001		
2013	452	4.7%	456	4.5%	-0.035	-0.002		
2014	351	3.5%	342	3.4%	0.093	0.002		
2015	217	2.2%	206	2.0%	0.106	0.003		
2015	217	Standard	200	Standard	0.100	0.008		
Recorded history of:	Mean	Deviation	Mean	Deviation				
Prior combined comorbidity score	0.7	1.3	0.7	1.5	0.005	0.003		
,	Number	Percent	Number	Percent	0.000	0.000		
Anxiety	2,657	26.4%	2,636	26.2%	0.212	0.005		
Behavioral disorders	467	4.6%	468	4.6%	-0.009	0		
Other psychological disorders	2,537	25.2%	2,530	25.1%	0.069	0.002		
Sleep disorder	992	9.8%	1,008	10.0%	-0.157			
Substance abuse	487	4.8%	487	4.8%	0.005	0		
	_	Standard		Standard				
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation				
Mean number of ambulatory								
encounters	10.9	10.9	10.6	11.9	0.269	0.024		
Mean number of inpatient hospital	0.5	2.5	2.5	2.5	2.51	2.21-		
encounters	0.2	0.6	0.2	0.6	-0.01	-0.015		
Mean number of filled prescriptions	12	13.5	12	12.9	0.033	0.002		

cder_mpl2p_wp020 Page 11 of 79



Table 1b. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Covariate Ba	Covariate Balance			
			Authorized	Generic		
	Brand Name S	Sertraline	Sertrali	ne		
Mean number of generics	5.4	4.8	5.3	4.7	0.021	0.004
Mean number of unique drug classes	5	4.2	4.9	4.2	0.016	0.004
History of use:	Number	Percent	Number	Percent		
Analgesic opiates	2,555	25.4%	2,558	25.4%	-0.028	-0.001
Antipsychotics	695	6.9%	684	6.8%	0.107	0.004
Anxiolytics/Hypnotics	2,989	29.7%	3,003	29.8%	-0.142	-0.003
Lithium and other mood stabilizers	1,095	10.9%	1,099	10.9%	-0.038	-0.001
Non-sertraline antidepressants	4,052	40.2%	4,091	40.6%	-0.383	-0.008

cder_mpl2p_wp020 Page 12 of 79



Table 1c. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical P	roduct		Covariate	e Balance
			Authorized	Generic		
	Brand Name	Sertraline	Sertra	line		
					Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Number of patients	10,535	100.0%	584,450	100.0%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	43.7	16.7	49.8	16.9	-6.111	-0.364
	Number	Percent	Number	Percent		
Age (years)						
12-17	862	8.2%	35,360	6.1%	2.132	0.083
18-24	1,041	9.9%	49,351	8.4%	1.437	0.05
25-54	5,861	55.6%	262,955	45.0%	10.642	0.214
55+	2,771	26.3%	236,784	40.5%	-14.211	-0.305
Sex						
Female	7,818	74.2%	406,936	69.6%	4.583	0.102
Male	2,717	25.8%	177,514	30.4%	-4.583	-0.102
Year						
2006	5,481	52.0%	7,203	1.2%	50.794	1.404
2007	753	7.1%	22,475	3.8%	3.302	0.145
2008	745	7.1%	36,901	6.3%	0.758	0.03
2009	838	8.0%	61,169	10.5%	-2.512	-0.087
2010	646	6.1%	87,259	14.9%	-8.798	-0.29
2011	581	5.5%	88,405	15.1%	-9.611	-0.32
2012	471	4.5%	75,621	12.9%	-8.468	-0.304
2013	452	4.3%	76,609	13.1%	-8.817	-0.317
2014	351	3.3%	78,882	13.5%	-10.165	-0.372
2015	217	2.1%	49,926	8.5%	-6.483	-0.292
		Standard		Standard		
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity score	0.7	1.3	1.2	2	-0.473	-0.273
	Number	Percent	Number	Percent		
Anxiety	2,724	25.9%	163,480	28.0%	-2.115	-0.048
Behavioral disorders	484	4.6%	25,930	4.4%	0.158	0.008
Other psychological disorders	2,678	25.4%	151,721	26.0%	-0.54	-0.012
Sleep disorder	1,015	9.6%	70,180	12.0%	-2.373	-0.076
Substance abuse	542	5.1%	46,403	7.9%	-2.795	-0.113
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of ambulatory encounters	10.9	11	10.6	12	0.373	0.033
Mean number of inpatient hospital encounters	0.2	0.7	0.3	0.8	-0.093	-0.13
Mean number of filled prescriptions	12.2	13.6	15.5	15.6	-3.356	-0.229

cder_mpl2p_wp020 Page 13 of 79



Table 1c. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Covariate B	Covariate Balance			
	Brand Name S	Sertraline	Sertrali	ne		
Mean number of generics	5.5	4.8	6.5	5	-0.985	-0.199
Mean number of unique drug classes	5	4.3	6	4.5	-0.917	-0.21
History of use:	Number	Percent	Number	Percent		
Analgesic opiates	2,777	26.4%	207,874	35.6%	-9.208	-0.2
Antipsychotics	780	7.4%	51,198	8.8%	-1.356	-0.05
Anxiolytics/Hypnotics	3,127	29.7%	157,106	26.9%	2.801	0.062
Lithium and other mood stabilizers	1,184	11.2%	55,829	9.6%	1.686	0.055
Non-sertraline antidepressants	4,272	40.6%	230,542	39.4%	1.105	0.023

cder_mpl2p_wp020 Page 14 of 79



Table 1d. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical P	roduct		Covariate	Covariate Balance		
	Brand Name	Sertraline	Authorized Sertra					
					Absolute	Standardized		
Characteristic	Number	Percent	Number	Percent	Difference	Difference		
Number of patients	10,072	95.6%	57,668	9.9%	-	-		
		Standard		Standard				
Demographics	Mean	Deviation	Mean	Deviation				
Mean age (years)	44.1	16.8	44	17.1	0.056	0.003		
	Number	Percent	Number	Percent				
Age (years)								
12-17	791	7.9%	748	7.4%	0.424	0.016		
18-24	968	9.6%	942	9.4%	0.255	0.009		
25-54	5,586	55.5%	5,701	56.6%	-1.143	-0.024		
55+	2,727	27.1%	2,680	26.6%	0.463	0.011		
Sex								
Female	7,458	74.0%	7,449	74.0%	0.094	0.002		
Male	2,614	26.0%	2,623	26.0%	-0.094	-0.002		
Year								
2006	5,020	49.8%	5,019	49.8%	0.008	0		
2007	752	7.5%	788	7.8%	-0.36	-0.014		
2008	745	7.4%	749	7.4%	-0.04	-0.002		
2009	838	8.3%	856	8.5%	-0.183	-0.007		
2010	646	6.4%	617	6.1%	0.285	0.012		
2011	581	5.8%	579	5.7%	0.019	0.001		
2012	470	4.7%	459	4.6%	0.108	0.005		
2013	452	4.5%	456	4.5%	-0.035	-0.002		
2014	351	3.5%	342	3.4%	0.093	0.005		
2015	217	2.2%	206	2.0%	0.106	0.008		
2013	21,	Standard	200	Standard	0.100	0.000		
Recorded history of:	Mean	Deviation	Mean	Deviation				
Prior combined comorbidity score	0.7	1.3	0.7	1.5	0.005	0.003		
•	Number	Percent	Number	Percent				
Anxiety	2,657	26.4%	2,636	26.2%	0.212	0.005		
Behavioral disorders	467	4.6%	468	4.6%	-0.009	0		
Other psychological disorders	2,537	25.2%	2,530	25.1%	0.069	0.002		
Sleep disorder	992	9.8%	1,008	10.0%	-0.157	-0.005		
Substance abuse	487	4.8%	487	4.8%	0.005	0		
		Standard		Standard				
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation				
Mean number of ambulatory	10.9	10.9	10.6	11.9	0.269	0.024		
encounters			_0.9	,	2.230			
Mean number of inpatient hospital	0.2	0.6	0.2	0.6	-0.01	-0.015		
encounters	5.–	0.0		3.3	0.01	2.020		
Mean number of filled prescriptions	12	13.5	12	12.9	0.033	0.002		
In the first of		_5.5		,	2.055	5.552		

cder_mpl2p_wp020 Page 15 of 79



Table 1d. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical Pi	Covariate Balance						
		Authorized Generic							
	Brand Name S	Sertraline	Sertrali	ne					
Mean number of generics	5.4	4.8	5.3	4.7	0.021	0.004			
Mean number of unique drug classes	5	4.2	4.9	4.2	0.016	0.004			
History of use:	Number	Percent	Number	Percent					
Analgesic opiates	2,555	25.4%	2,558	25.4%	-0.028	-0.001			
Antipsychotics	695	6.9%	684	6.8%	0.107	0.004			
Anxiolytics/Hypnotics	2,989	29.7%	3,003	29.8%	-0.142	-0.003			
Lithium and other mood stabilizers	1,095	10.9%	1,099	10.9%	-0.038	-0.001			
Non-sertraline antidepressants	4,052	40.2%	4,091	40.6%	-0.383	-0.008			

cder_mpl2p_wp020 Page 16 of 79



Table 1e. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical P	Product		Covariate	e Balance
			Authorized	l Generic		
	Brand Name	Sertraline	Sertra	line		
					Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Number of patients	9,565	100.0%	532,933	100.0%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	43.7	16.8	49.5	16.9	-5.763	-0.343
	Number	Percent	Number	Percent		
Age (years)						
12-17	783	8.2%	32,984	6.2%	1.997	0.077
18-24	933	9.8%	46,328	8.7%	1.061	0.037
25-54	5,313	55.5%	240,354	45.1%	10.446	0.21
55+	2,536	26.5%	213,267	40.0%	-13.504	-0.29
Sex						
Female	7,089	74.1%	370,920	69.6%	4.514	0.101
Male	2,476	25.9%	162,013	30.4%	-4.514	-0.101
Year						
2006	5,034	52.6%	6,590	1.2%	51.393	1.421
2007	661	6.9%	20,739	3.9%	3.019	0.134
2008	693	7.2%	34,063	6.4%	0.854	0.034
2009	747	7.8%	56,467	10.6%	-2.786	-0.096
2010	570	6.0%	80,207	15.1%	-9.091	-0.3
2011	523	5.5%	80,637	15.1%	-9.663	-0.322
2012	424	4.4%	68,733	12.9%	-8.464	-0.304
2013	411	4.3%	69,689	13.1%	-8.78	-0.316
2014	316	3.3%	71,652	13.4%	-10.141	-0.372
2015	186	1.9%	44,156	8.3%	-6.341	-0.291
		Standard		Standard		
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity score	0.7	1.3	1.2	2	-0.447	-0.261
	Number	Percent	Number	Percent		
Anxiety	2,421	25.3%	143,785	27.0%	-1.669	-0.038
Behavioral disorders	430	4.5%	23,106	4.3%	0.16	0.008
Other psychological disorders	2,373	24.8%	133,270	25.0%	-0.198	-0.005
Sleep disorder	898	9.4%	60,980	11.4%	-2.054	-0.067
Substance abuse	464	4.9%	39,869	7.5%	-2.63	-0.11
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of ambulatory	10.6	10.7	10.3	11.8	0.372	0.033
encounters						
Mean number of inpatient hospital	0.2	0.6	0.3	0.7	-0.092	-0.132
encounters						
Mean number of filled prescriptions	11.4	12.8	14.5	14.6	-3.148	-0.23

cder_mpl2p_wp020 Page 17 of 79



Table 1e. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression) (Unmatched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Covariate B	Covariate Balance			
			Authorized	Generic		
	Brand Name S	Sertraline	Sertrali	ne		
Mean number of generics	5.2	4.7	6.2	4.9	-0.963	-0.201
Mean number of unique drug classes	4.8	4.1	5.7	4.3	-0.892	-0.21
History of use:	Number	Percent	Number	Percent		
Analgesic opiates	2,455	25.7%	185,245	34.8%	-9.093	-0.199
Antipsychotics	634	6.6%	41,821	7.8%	-1.219	-0.047
Anxiolytics/Hypnotics	2,738	28.6%	137,153	25.7%	2.89	0.065
Lithium and other mood stabilizers	981	10.3%	46,832	8.8%	1.469	0.05
Non-sertraline antidepressants	3,545	37.1%	192,032	36.0%	1.029	0.021

cder_mpl2p_wp020 Page 18 of 79



Table 1f. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Medical P	roduct		Covariate	e Balance
			Authorized	Generic		
	Brand Name	Sertraline	Sertra	line		
					Absolute	Standardized
Characteristic	Number	Percent	Number	Percent	Difference	Difference
Number of patients	9,167	95.8%	51,831	9.7%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	44.1	16.9	44.1	17.3	-0.015	-0.001
	Number	Percent	Number	Percent		
Age (years)						
12-17	723	7.9%	699	7.6%	0.263	0.01
18-24	878	9.6%	859	9.4%	0.207	0.007
25-54	5,075	55.4%	5,136	56.0%	-0.666	-0.014
55+	2,491	27.2%	2,473	27.0%	0.195	0.005
Sex						
Female	6,775	73.9%	6,769	73.8%	0.069	0.002
Male	2,392	26.1%	2,398	26.2%	-0.069	-0.002
Year						
2006	4,637	50.6%	4,637	50.6%	0.002	0
2007	661	7.2%	685	7.5%	-0.263	-0.011
2008	693	7.6%	710	7.7%	-0.188	-0.007
2009	747	8.1%	765	8.3%	-0.201	-0.008
2010	570	6.2%	553	6.0%	0.185	0.008
2011	523	5.7%	507	5.5%	0.173	0.008
2012	423	4.6%	411	4.5%	0.128	0.006
2013	411	4.5%	413	4.5%	-0.018	-0.001
2014	316	3.4%	308	3.4%	0.084	0.005
2015	186	2.0%	177	1.9%	0.097	0.007
		Standard		Standard		
Recorded history of:	Mean	Deviation	Mean	Deviation		
Prior combined comorbidity score	0.7	1.3	0.7	1.5	0.01	0.007
•	Number	Percent	Number	Percent		
Anxiety	2,360	25.7%	2,340	25.5%	0.219	0.005
Behavioral disorders	416	4.5%	421	4.6%	-0.05	-0.002
Other psychological disorders	2,258	24.6%	2,276	24.8%	-0.195	-0.005
Sleep disorder	878	9.6%	880	9.6%	-0.018	-0.001
Substance abuse	418	4.6%	401	4.4%	0.185	0.009
		Standard		Standard		
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation		
Mean number of ambulatory	10.6	10.6	10.3	11.5	0.264	0.024
encounters						
Mean number of inpatient hospital	0.2	0.6	0.2	0.6	-0.005	-0.008
encounters						
Mean number of filled prescriptions	11.2	12.7	11.2	12.2	0.025	0.002

cder_mpl2p_wp020 Page 19 of 79



Table 1f. Cohort of New Initiators of Brand Name Sertraline and Authorized Generic Sertraline in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015, Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression) (Matched, Aggregated), Ratio: 1:many, Caliper: 0.05

		Covariate Balance				
			Generic			
	Brand Name S	Sertraline				
Mean number of generics	5.1	4.6	5.1	4.5	0.031	0.007
Mean number of unique drug classes	4.8	4.1	4.7	4	0.027	0.007
History of use:	Number	Percent	Number	Percent		
Analgesic opiates	2,273	24.8%	2,295	25.0%	-0.237	-0.006
Antipsychotics	563	6.1%	562	6.1%	0.01	0
Anxiolytics/Hypnotics	2,613	28.5%	2,598	28.3%	0.167	0.004
Lithium and other mood stabilizers	915	10.0%	916	10.0%	-0.006	0
Non-sertraline antidepressants	3,374	36.8%	3,414	37.2%	-0.434	-0.009

cder_mpl2p_wp020 Page 20 of 79



Table 2: Effect Estimates for Risk Window 1-14 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% CI)	Wald P-Value
Unmatched Analysis (Site-adjust	ted only)										
Brand Name Sertraline	10,535	358.05	12.41	0.03	19	53.07	1.80	-8.10	-0.28	0.62	0.038
Authorized Generic Sertraline	584,450	19,895.78	12.43	0.03	1,217	61.17	2.08	-6.10	-0.20	(0.39, 0.97)	0.036
1:many Matched Conditional Pr	edefined Ana	lysis; Calipe	r= 0.05								
Brand Name Sertraline	10,072	338.15	12.26	0.03	17	50.27	1.69	-11.10	-0.31	0.81	0.455
Authorized Generic Sertraline	57,668	1,873.70	11.87	0.03	115	61.38	1.99	-11.10	-0.31	(0.47, 1.40)	0.433

cder_mpl2p_wp020 Page 21 of 79



Table 3: Effect Estimates for Risk Window 1-14 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% CI)	Wald P-Value
Age Group: 12-17											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	862	29.33	12.43	0.03	****	****	****	-201.98	-6.98	0.25	0.05
Authorized Generic Sertraline	35,360	1,217.74	12.58	0.03	****	****	****	-201.98	-0.98	(0.06, 1.00)	0.05
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	0.05								
Brand Name Sertraline	795	26.80	12.31	0.03	****	****	****	153.10	4.00	0.23	0.151
Authorized Generic Sertraline	5,128	168.86	12.03	0.03	****	****	****	-152.19	-4.98	(0.03, 1.71)	0.151
Age Group: 18-24											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	1,041	35.14	12.33	0.03	****	****	****	2.64	0.03	0.90	0.000
Authorized Generic Sertraline	49,351	1,704.29	12.61	0.03	****	****	****	2.64	0.02	(0.29, 2.85)	0.863
1:many Matched Conditional Pre	defined Analy	sis; Caliper	- 0.05								
Brand Name Sertraline	956	32.29	12.34	0.03	****	****	****	4.67	0.40	0.86	0.054
Authorized Generic Sertraline	5,025	165.91	12.06	0.03	****	****	****	1.67	0.10	(0.17, 4.32)	0.851
Age Group: 25-54											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	5,861	199.15	12.41	0.03	11	55.23	1.88	4.02	0.44	0.84	0.570
Authorized Generic Sertraline	262,955	8,960.88	12.45	0.03	531	59.26	2.02	-4.02	-0.14	(0.46, 1.54)	0.578
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	0.05								
Brand Name Sertraline	5,572	186.62	12.23	0.03	****	****	****	= 20	0.14	1.08	
Authorized Generic Sertraline	29,883	968.23	11.83	0.03	****	****	****	-5.29	-0.11	(0.53, 2.21)	0.827
Age Group: 55+											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	2,771	94.42	12.45	0.03	****	****	****	4.00	0.47	0.60	0.001
Authorized Generic Sertraline	236,784	8,012.87	12.36	0.03	****	****	****	4.82	0.17	(0.19, 1.89)	0.381
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	- 0.05							•	
Brand Name Sertraline	2,718	91.78	12.33	0.03	****	****	****			0.57	
Authorized Generic Sertraline	17,605	570.38	11.83	0.03	****	****	****	-18.16	-0.54	(0.16, 1.98)	0.378

^{*****}Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

cder_mpl2p_wp020 Page 22 of 79



Table 4: Effect Estimates for Risk Window 1-365 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% CI)	Wald P-Value
Unmatched Analysis (Site-adjust	ted only)										
Brand Name Sertraline	10,535	1,858.38	64.43	0.18	48	25.83	4.56	2.40	-1.48	0.68	0.007
Authorized Generic Sertraline	584,450	150,695.55	94.18	0.26	3,530	23.42	6.04	2.40	-1.40	(0.51, 0.90)	0.007
1:many Matched Conditional Pro	edefined Ana	ılysis; Caliper	= 0.05								
Brand Name Sertraline	10,072	1,563.99	56.72	0.16	43	27.49	4.27	11.02	0.22	0.79	0.186
Authorized Generic Sertraline	57,668	6,569.80	41.61	0.11	259	39.42	4.49	-11.93	-0.22	(0.56, 1.12)	0.186

cder_mpl2p_wp020 Page 23 of 79



Table 5: Effect Estimates for Risk Window 1-365 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% CI)	Wald P-Value
Age Group: 12-17											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	862	164.82	69.84	0.19	****	****	****	-78.41	-25.56	0.41	0.005
Authorized Generic Sertraline	35,360	9,447.38	97.59	0.27	****	****	****	-/0.41	-25.50	(0.22, 0.76)	0.005
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	- 0.05								
Brand Name Sertraline	795	139.54	64.11	0.18	****	****	****	00.06	-8.27	0.48	0.05
Authorized Generic Sertraline	5,128	637.76	45.43	0.12	****	****	****	-90.06	-8.27	(0.23, 1.00)	0.05
Age Group: 18-24											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	1,041	164.28	57.64	0.16	****	****	****	4.07	2.00	0.76	0.505
Authorized Generic Sertraline	49,351	11,383.67	84.25	0.23	****	****	****	-1.87	-3.09	(0.34, 1.71)	0.505
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	0.05								
Brand Name Sertraline	956	134.59	51.42	0.14	****	****	****	0.00	0.05	0.90	0.044
Authorized Generic Sertraline	5,025	559.51	40.67	0.11	****	****	****	-9.32	0.06	(0.33, 2.48)	0.841
Age Group: 25-54											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	5,861	989.65	61.67	0.17	24	24.25	4.09	F 46	0.66	0.97	0.07
Authorized Generic Sertraline	262,955	66,561.02	92.45	0.25	1,251	18.79	4.76	5.46	-0.66	(0.64, 1.45)	0.87
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	0.05								
Brand Name Sertraline	5,572	825.21	54.09	0.15	19	23.02	3.41		0.40	0.95	
Authorized Generic Sertraline	29,883	3,334.82	40.76	0.11	99	29.69	3.31	-6.66	0.10	(0.56, 1.60)	0.837
Age Group: 55+											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	2,771	539.62	71.13	0.19	****	****	****	6.40	0.55	0.78	0.40
Authorized Generic Sertraline	236,784	63,303.49	97.65	0.27	****	****	****	6.48	0.66	(0.39, 1.58)	0.49
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	- 0.05							•	
Brand Name Sertraline	2,718	469.07	63.03	0.17	****	****	****			0.79	
Authorized Generic Sertraline	17,605	2,074.49	43.04	0.12	****	****	****	-9.66	-0.32	(0.34, 1.80)	0.57

^{*****}Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

cder_mpl2p_wp020 Page 24 of 79



Table 6: Effect Estimates for Risk Window 15-365 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	Hazard Ratio	Wald P-Value
Unmatched Analysis (Site-adjust	ted only)										
Brand Name Sertraline	9,565	1,501.92	57.35	0.16	29	19.31	3.03	1.57	-1.33	0.72	0.077
Authorized Generic Sertraline	532,933	130,996.00	89.78	0.25	2,324	17.74	4.36	1.57	-1.55	(0.50, 1.04)	0.077
1:many Matched Conditional Pr	edefined Ana	lysis; Caliper	= 0.05								
Brand Name Sertraline	9,167	1,273.03	50.72	0.14	24	18.85	2.62	-8.64	-0.14	0.91	0.693
Authorized Generic Sertraline	51,831	5,201.11	36.65	0.10	143	27.49	2.76	-0.04	-0.14	(0.58, 1.44)	0.093

cder_mpl2p_wp020 Page 25 of 79



Table 7: Effect Estimates for Risk Window 15-365 Days in the Sentinel Distributed Database (SDD) from June 30, 2006 to September 30, 2015 (Secondary Outcome: Hospitalized Depression) by Analysis Type and Age Group

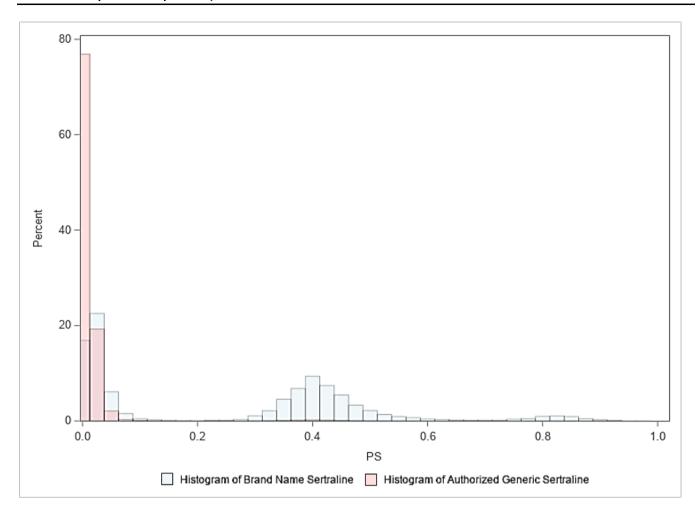
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% CI)	Wald P-Value
Age Group: 12-17											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	783	135.74	63.32	0.17	****	****	****	-60.79	-19.68	0.49	0.043
Authorized Generic Sertraline	32,984	8,235.37	91.19	0.25	****	****	****	-60.79	-19.08	(0.24, 0.98)	0.043
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	0.05								
Brand Name Sertraline	725	112.76	56.81	0.16	****	****	****	52.50	2.27	0.72	0.422
Authorized Generic Sertraline	4,655	488.76	38.35	0.10	****	****	****	-52.50	-2.37	(0.32, 1.62)	0.432
Age Group: 18-24											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	933	129.14	50.56	0.14	****	****	****	7.41	2.20	0.66	0.460
Authorized Generic Sertraline	46,328	9,691.97	76.41	0.21	****	****	****	-7.41	-3.20	(0.21, 2.05)	0.468
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	- 0.05								
Brand Name Sertraline	868	103.78	43.67	0.12	****	****	****	42.44	0.46	1.00	0.006
Authorized Generic Sertraline	4,599	428.08	34.00	0.09	****	****	****	-13.14	-0.46	(0.29, 3.53)	0.996
Age Group: 25-54											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	5,313	791.02	54.38	0.15	13	16.43	2.45	2.02	0.50	00/062 40	
Authorized Generic Sertraline	240,354	57,681.74	87.66	0.24	727	12.60	3.02	3.83	-0.58	.09 (0.63, 1.9	0.75
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	0.05								
Brand Name Sertraline	5,061	660.27	47.65	0.13	****	****	****	4.70	0.00	05/045 00	
Authorized Generic Sertraline	26,643	2,613.87	35.83	0.10	****	****	****	-4.73	-0.02	.95 (0.45, 2.0	0.902
Age Group: 55+											
Unmatched Analysis (Site-adjuste	ed only)										
Brand Name Sertraline	2,536	446.02	64.24	0.18	****	****	****		0.50	0.95	0.011
Authorized Generic Sertraline	213,267	55,386.91	94.86	0.26	****	****	****	5.54	0.50	(0.39, 2.33)	0.914
1:many Matched Conditional Pre	defined Analy	sis; Caliper=	- 0.05							,	
Brand Name Sertraline	2,485	388.50	57.10	0.16	****	****	****			1.01	
Authorized Generic Sertraline	15,917	1,668.33	38.28	0.10	****	****	****	-2.12	0.44	(0.36, 2.82)	0.98

^{*****}Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

cder_mpl2p_wp020 Page 26 of 79



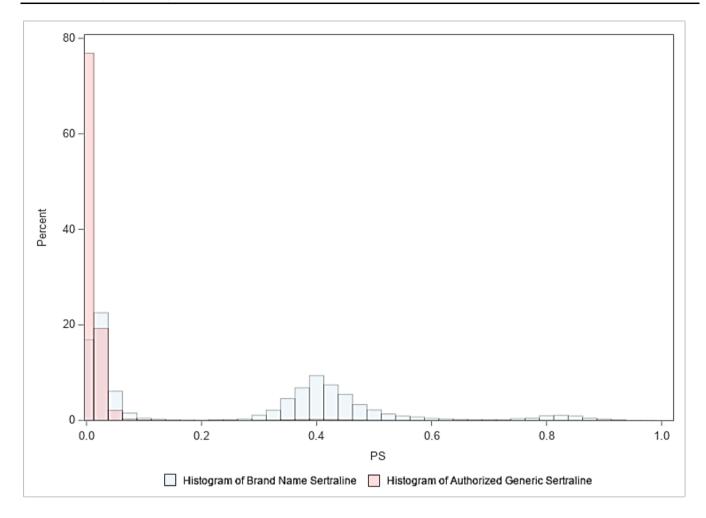
Figure 1a. Histogram Depicting Propensity Score Distributions Before Matching for Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression)



cder_mpl2p_wp020 Page 27 of 79



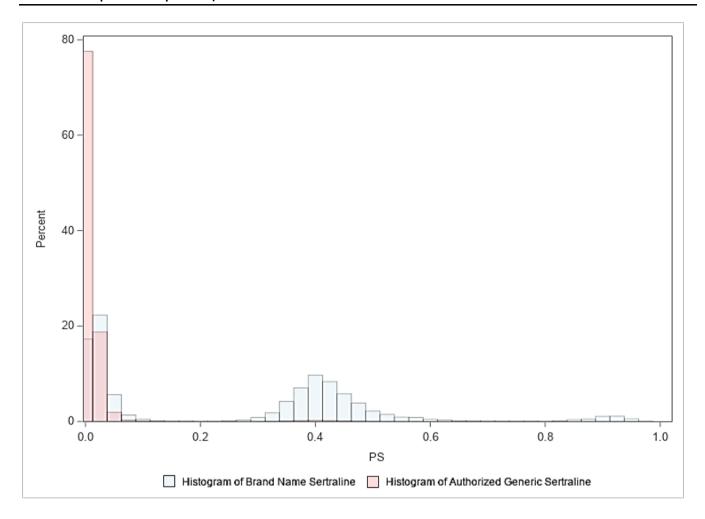
Figure 1b. Histogram Depicting Propensity Score Distributions Before Matching for Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression)



cder_mpl2p_wp020 Page 28 of 79



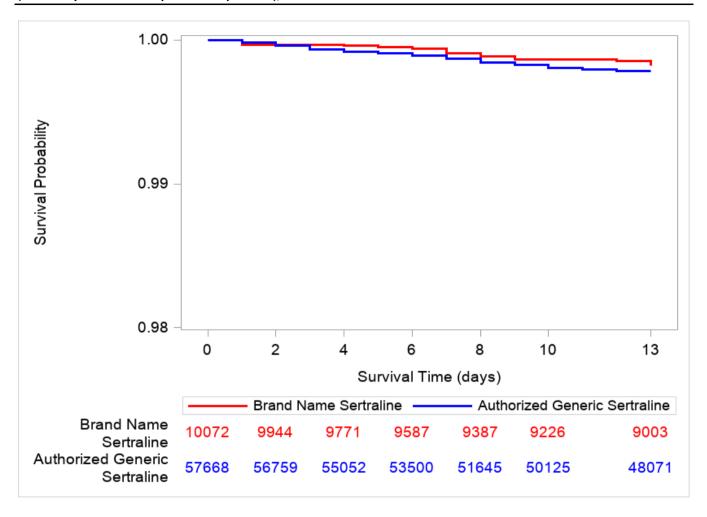
Figure 1c. Histogram Depicting Propensity Score Distributions Before Matching for Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression)



cder_mpl2p_wp020 Page 29 of 79



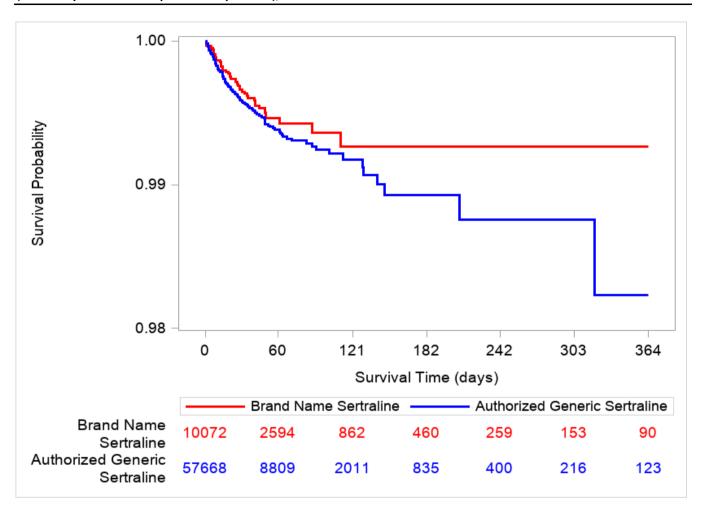
Figure 2a. Kaplan Meier Survival Curves of Weighted Informative Events and Follow-up Time for Risk Window 1-14 Days (Secondary Outcome: Hospitalized Depression), Conditional Matched Cohort



cder_mpl2p_wp020 Page 30 of 79



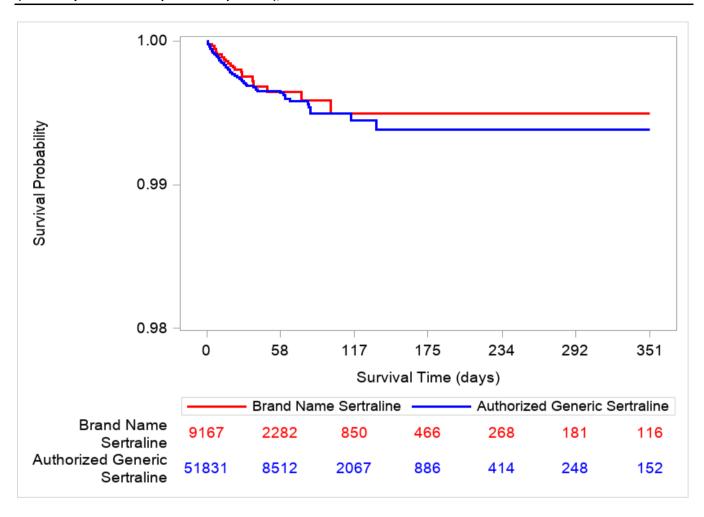
Figure 2b. Kaplan Meier Survival Curves of Weighted Informative Events and Follow-up Time for Risk Window 1-365 Days (Secondary Outcome: Hospitalized Depression), Conditional Matched Cohort



cder_mpl2p_wp020 Page 31 of 79



Figure 2c. Kaplan Meier Survival Curves of Weighted Informative Events and Follow-up Time for Risk Window 15-365 Days (Secondary Outcome: Hospitalized Depression), Conditional Matched Cohort



cder_mpl2p_wp020 Page 32 of 79



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request End Date (September 30, 2015)

DP ID	DP Start Date ¹	DP End Date ¹
DP01	01/01/2008	09/30/2015
DP02	01/01/2000	09/30/2015
DP03	01/01/2008	09/30/2015
DP04	01/01/2006	09/30/2015
DP05	01/01/2010	09/30/2015
DP06	01/01/2000	09/30/2015
DP07	06/01/2007	09/30/2015
DP08	01/01/2000	09/30/2015
DP09	01/01/2000	09/30/2015
DP10	01/01/2012	09/30/2015

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.

cder_mpl2p_wp020 Page 33 of 79



Appendix B. List of Generic and Brand Medical Product Names Used to Define Exposures in this Request

Generic Name	Brand Name	
	Sertraline	
sertraline HCl	Sertraline	
sertraline HCl	Zoloft	

cder_mpl2p_wp020 Page 34 of 79



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Outcomes in this Request

Code	Description	Code Type	Code Category						
	Mood or Depressive Disorder								
311	Depressive disorder, not elsewhere classified	Diagnosis	ICD-9-CM						
293.83	Mood disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM						
296.2	Major depressive disorder, single episode	Diagnosis	ICD-9-CM						
296.20	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-9-CM						
296.21	Major depressive disorder, single episode, mild	Diagnosis	ICD-9-CM						
296.22	Major depressive disorder, single episode, moderate	Diagnosis	ICD-9-CM						
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM						
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM						
296.25	Major depressive disorder, single episode, in partial or unspecified remission	Diagnosis	ICD-9-CM						
296.26	Major depressive disorder, single episode in full remission	Diagnosis	ICD-9-CM						
296.3	Major depressive disorder, recurrent episode	Diagnosis	ICD-9-CM						
296.30	Major depressive disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM						
296.31	Major depressive disorder, recurrent episode, mild	Diagnosis	ICD-9-CM						
296.32	Major depressive disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM						
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM						
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM						
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM						
296.36	Major depressive disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM						
296.5	Bipolar I disorder, most recent episode (or current), depressed	Diagnosis	ICD-9-CM						
296.50	Bipolar I disorder, most recent episode (or current) depressed, unspecified	Diagnosis	ICD-9-CM						
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	Diagnosis	ICD-9-CM						
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	Diagnosis	ICD-9-CM						
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	_	ICD-9-CM						
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM						
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	Diagnosis	ICD-9-CM						
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	Diagnosis	ICD-9-CM						
296.90	Unspecified episodic mood disorder	Diagnosis	ICD-9-CM						
298.0	Depressive type psychosis	Diagnosis	ICD-9-CM						
300.4	Dysthymic disorder	Diagnosis	ICD-9-CM						
301.12	Chronic depressive personality disorder	Diagnosis	ICD-9-CM						
309.0	Adjustment disorder with depressed mood	Diagnosis	ICD-9-CM						
309.1	Prolonged depressive reaction as adjustment reaction	Diagnosis	ICD-9-CM						
309.28	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-9-CM						
	Self-Harm Diagnosis								
960	Poisoning by antibiotics	Diagnosis	ICD-9-CM						
960.0	Poisoning by penicillins	Diagnosis	ICD-9-CM						

cder_mpl2p_wp020 Page 35 of 79



960.1 Poisoning by antifungal antibiotics Diagnosis ICD-9-CM 960.2 Poisoning by chloramphenicol group Diagnosis ICD-9-CM 960.3 Poisoning by tetracycline group Diagnosis ICD-9-CM 960.4 Poisoning by tetracycline group Diagnosis ICD-9-CM 960.6 Poisoning of antimycobacterial antibiotics Diagnosis ICD-9-CM 960.7 Poisoning by antineoplastic antibiotics Diagnosis ICD-9-CM 960.8 Poisoning by antineoplastic antibiotics Diagnosis ICD-9-CM 960.9 Poisoning by unspecified antibiotic Diagnosis ICD-9-CM 961.0 Poisoning by other anti-infectives Diagnosis ICD-9-CM 961.1 Poisoning by actival anti-infectives Diagnosis ICD-9-CM 961.2 Poisoning by actival anti-infectives Diagnosis ICD-9-CM 961.3 Poisoning by actival anti-infectives Diagnosis ICD-9-CM 961.4 Poisoning by actival anti-infectives Diagnosis ICD-9-CM 961.2 Poisoning by optical anti-infectives Diagnosis <th>Code</th> <th>Description</th> <th>Code Type</th> <th>Code Category</th>	Code	Description	Code Type	Code Category
960.3 Poisoning by erythromycin and other macrolides 960.4 Poisoning by tetracycline group 960.5 Poisoning of pelpalosporing group 960.6 Poisoning of antimycobacterial antibiotics 960.7 Poisoning of antimycobacterial antibiotics 960.8 Poisoning by antineoplastic antibiotics 960.9 Poisoning by other specified antibiotics 960.9 Poisoning by other anti-infectives 961.0 Poisoning by unspecified antibiotics 961.1 Poisoning by other anti-infectives 961.2 Poisoning by suppositionamides 961.1 Poisoning by suppositionamides 961.2 Poisoning by suppositionamides 961.3 Poisoning by autionamides 961.4 Poisoning by autionamides 961.5 Poisoning by antimalarials and drugs acting on other blood protozoa 961.6 Poisoning by antimalarials and drugs acting on other blood protozoa 961.7 Poisoning by antimalarials and drugs acting on other blood protozoa 961.8 Poisoning by antiherimitics 961.9 Poisoning by antiherimitics 961.7 Poisoning by antiherimitics 961.8 Poisoning by antiherimitics 961.9 Poisoning by other and unspecified anti-infectives 962.0 Poisoning by other and unspecified anti-infectives 962.0 Poisoning by other and unspecified anti-infectives 962.1 Poisoning by other and unspecified anti-infectives 962.2 Poisoning by other and unspecified anti-infectives 962.3 Poisoning by antiherimitics 962.4 Poisoning by antiherimitics 962.5 Poisoning by by androgens and anabolic congeners 962.6 Poisoning by other and unspecified anti-infectives 962.7 Poisoning by other and unspecified anti-infectives 962.8 Poisoning by other and unspecified anti-infectives 962.9 Poisoning by other and unspecified anti-infectives 962.9 Poisoning by other and unspecified anti-infectives 962.9 Poisoning by androgens and anabolic congeners 962.1 Poisoning by androgens and anabolic congeners 962.2 Poisoning by antiherior pituitary hormones 962.3 Poisoning by otherior pituitary hormones 962.4 Poisoning by antiherior pituita	960.1	Poisoning by antifungal antibiotics	Diagnosis	ICD-9-CM
960.4 Poisoning by tetracycline group Diagnosis ICD-9 CM 960.5 Poisoning of cephalosporin group Diagnosis ICD-9 CM 960.6 Poisoning by antimeoplastic antibiotics Diagnosis ICD-9 CM 960.7 Poisoning by antimeoplastic antibiotics Diagnosis ICD-9 CM 960.9 Poisoning by unspecified antibiotic Diagnosis ICD-9 CM 961.1 Poisoning by sulfonamides Diagnosis ICD-9 CM 961.2 Poisoning by sarenical anti-infectives Diagnosis ICD-9 CM 961.2 Poisoning by resenical anti-infectives Diagnosis ICD-9 CM 961.2 Poisoning by resenical anti-infectives Diagnosis ICD-9 CM 961.2 Poisoning by enter antiprotozoal drugs acting on other blood protozoa Diagnosis ICD-9 CM 961.5 Poisoning by athelminitics Diagnosis ICD-9 CM 961.5 Poisoning by athelminitics Diagnosis ICD-9 CM 961.7 Poisoning by athelminitics Diagnosis ICD-9 CM 961.8 Poisoning by other and unspecified anti-infectives D	960.2	Poisoning by chloramphenicol group	Diagnosis	ICD-9-CM
960.5 Poisoning of cephalosporin group Diagnosis ICD-9-CM 960.6 Poisoning of antimycobacterial antibiotics Diagnosis ICD-9-CM 960.7 Poisoning by other specified antibiotics Diagnosis ICD-9-CM 960.8 Poisoning by unspecified antibiotic Diagnosis ICD-9-CM 961. Poisoning by other anti-infectives Diagnosis ICD-9-CM 961.0 Poisoning by ather specified anti-infectives Diagnosis ICD-9-CM 961.1 Poisoning by atheway metal anti-infectives Diagnosis ICD-9-CM 961.2 Poisoning by atheway metal anti-infectives Diagnosis ICD-9-CM 961.3 Poisoning by atheway metal anti-infectives Diagnosis ICD-9-CM 961.3 Poisoning by ather antimotocal drugs Diagnosis ICD-9-CM 961.5 Poisoning by ather antimotocal drugs Diagnosis ICD-9-CM 961.6 Poisoning by ather and unspecified anti-infectives Diagnosis ICD-9-CM 961.7 Poisoning by ather and unspecified anti-infectives Diagnosis ICD-9-CM 961.9 Poisoni	960.3	Poisoning by erythromycin and other macrolides	Diagnosis	ICD-9-CM
960.6 Poisoning of antimycobacterial antibiotics Diagnosis ICD-9-CM Polsoning by antineoplastic antibiotics Diagnosis ICD-9-CM Poisoning by other specified antibiotics Diagnosis ICD-9-CM Poisoning by other specified antibiotic Diagnosis ICD-9-CM Poisoning by other specified antibiotic Diagnosis ICD-9-CM Poisoning by other anti-infectives Diagnosis ICD-9-CM Poisoning by other anti-infectives Diagnosis ICD-9-CM Poisoning by arsenical anti-infectives Diagnosis ICD-9-CM Poisoning by arsenical anti-infectives Diagnosis ICD-9-CM Poisoning by heavy metal anti-infectives Diagnosis ICD-9-CM Poisoning by natimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM Poisoning by antimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM Poisoning by antimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM Poisoning by antimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM Poisoning by antiviral drugs Diagnosis ICD-9-CM Poisoning by antiviral drugs Diagnosis ICD-9-CM Poisoning by antiviral drugs Diagnosis ICD-9-CM Poisoning by other antimycobacterial drugs Diagnosis ICD-9-CM Poisoning by other and unspecified anti-infectives Diagnosis ICD-9-CM Poisoning by other and unspecified anti-infectives Diagnosis ICD-9-CM Poisoning by other and unspecified anti-infectives Diagnosis ICD-9-CM Poisoning by antiviral drugs Diagnosis ICD-9-CM Poisoning by parathyroid and parathyroid derivatives Diagnosis ICD-9-CM Poisoning by parathyroid and parathyroid derivatives Diagnosis ICD-9-CM Poisoning by antireor pituitary hormones Diagnosis ICD-9-CM Poisoning by antireor pituitary hormones Diagnosis ICD-9-	960.4	Poisoning by tetracycline group	Diagnosis	ICD-9-CM
960.7 Poisoning by antineoplastic antibiotics Diagnosis ICD-9-CM 960.8 Poisoning by other specified antibiotics Diagnosis ICD-9-CM 961.1 Poisoning by unspecified antibiotic Diagnosis ICD-9-CM 961.1 Poisoning by sulfonamides Diagnosis ICD-9-CM 961.1 Poisoning by assenical anti-infectives Diagnosis ICD-9-CM 961.2 Poisoning by heavy metal anti-infectives Diagnosis ICD-9-CM 961.3 Poisoning by quinoline and hydroxyquinoline derivatives Diagnosis ICD-9-CM 961.4 Poisoning by other antiprotozoal drugs Diagnosis ICD-9-CM 961.5 Poisoning by other antiprotozoal drugs Diagnosis ICD-9-CM 961.6 Poisoning by antiviral drugs Diagnosis ICD-9-CM 961.7 Poisoning by antiviral drugs Diagnosis ICD-9-CM 961.8 Poisoning by antiviral drugs Diagnosis ICD-9-CM 961.9 Poisoning by antiviral drugs Diagnosis ICD-9-CM 961.9 Poisoning by other and unspecified anti-infectives Dia	960.5	Poisoning of cephalosporin group	Diagnosis	ICD-9-CM
960.8 Poisoning by other specified antibiotic Diagnosis ICD-9-CM 960.9 Poisoning by unspecified antibiotic Diagnosis ICD-9-CM 961.0 Poisoning by sulfonamides Diagnosis ICD-9-CM 961.1 Poisoning by arsenical anti-infectives Diagnosis ICD-9-CM 961.1 Poisoning by arsenical anti-infectives Diagnosis ICD-9-CM 961.2 Poisoning by autimalarials and hydroxyquinoline derivatives Diagnosis ICD-9-CM 961.3 Poisoning by antimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM 961.5 Poisoning by antimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM 961.5 Poisoning by antimalarials and drugs Diagnosis ICD-9-CM 961.6 Poisoning by antimitics Diagnosis ICD-9-CM 961.7 Poisoning by antimitics Diagnosis ICD-9-CM 961.7 Poisoning by other and unspecified anti-infectives Diagnosis ICD-9-CM 961.7 Poisoning by other and unspecified anti-infectives Diagnosis ICD-9-CM 962.	960.6	Poisoning of antimycobacterial antibiotics	Diagnosis	ICD-9-CM
960.9 Poisoning by unspecified antibiotic Diagnosis ICD-9-CM 961 Poisoning by other anti-infectives Diagnosis ICD-9-CM 961.0 Poisoning by other anti-infectives Diagnosis ICD-9-CM 961.1 Poisoning by heavy metal anti-infectives Diagnosis ICD-9-CM 961.2 Poisoning by durinoline and hydroxyquinoline derivatives Diagnosis ICD-9-CM 961.3 Poisoning by antimalarials and drugs acting on other blood protozoa Diagnosis ICD-9-CM 961.5 Poisoning by anthelmintics Diagnosis ICD-9-CM 961.6 Poisoning by anthelmintics Diagnosis ICD-9-CM 961.7 Poisoning by anthelmintics Diagnosis ICD-9-CM 961.8 Poisoning by anthelmintics Diagnosis ICD-9-CM 961.9 Poisoning by other antimycobacterial drugs Diagnosis ICD-9-CM 961.1 Poisoning by other and unspecified anti-infectives Diagnosis ICD-9-CM 962.2 Poisoning by advareal cortical steroids Diagnosis ICD-9-CM 962.1 Poisoning by antimelanting stero	960.7	Poisoning by antineoplastic antibiotics	Diagnosis	ICD-9-CM
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962.5Poisoning by posterior pituitary hormonesDiagnosisICD-9-CM962.6Poisoning by parathyroid and parathyroid derivativesDiagnosisICD-9-CM962.7Poisoning by thyroid and thyroid derivativesDiagnosisICD-9-CM962.8Poisoning by antithyroid agentsDiagnosisICD-9-CM962.9Poisoning by other and unspecified hormones and synthetic substitutesDiagnosisICD-9-CM963Poisoning by primarily systemic agentsDiagnosisICD-9-CM963.0Poisoning by antiallergic and antiemetic drugsDiagnosisICD-9-CM963.1Poisoning by antineoplastic and immunosuppressive drugsDiagnosisICD-9-CM963.2Poisoning by acidifying agentsDiagnosisICD-9-CM963.3Poisoning by alkalizing agentsDiagnosisICD-9-CM963.4Poisoning by enzymes, not elsewhere classifiedDiagnosisICD-9-CM963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by iron and its compoundsDiagnosisICD-9-CM964.0Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.1Poisoning by anticoagulantsDiagnosisICD-9-CM	962.3	Poisoning by insulins and antidiabetic agents	Diagnosis	ICD-9-CM
962.6Poisoning by parathyroid and parathyroid derivativesDiagnosisICD-9-CM962.7Poisoning by thyroid and thyroid derivativesDiagnosisICD-9-CM962.8Poisoning by antithyroid agentsDiagnosisICD-9-CM962.9Poisoning by other and unspecified hormones and synthetic substitutesDiagnosisICD-9-CM963Poisoning by primarily systemic agentsDiagnosisICD-9-CM963.0Poisoning by antiallergic and antiemetic drugsDiagnosisICD-9-CM963.1Poisoning by antineoplastic and immunosuppressive drugsDiagnosisICD-9-CM963.2Poisoning by acidifying agentsDiagnosisICD-9-CM963.3Poisoning by alkalizing agentsDiagnosisICD-9-CM963.4Poisoning by enzymes, not elsewhere classifiedDiagnosisICD-9-CM963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM964.0Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.1Poisoning by anticoagulantsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	962.4	Poisoning by anterior pituitary hormones	Diagnosis	ICD-9-CM
962.7Poisoning by thyroid and thyroid derivativesDiagnosisICD-9-CM962.8Poisoning by antithyroid agentsDiagnosisICD-9-CM962.9Poisoning by other and unspecified hormones and synthetic substitutesDiagnosisICD-9-CM963Poisoning by primarily systemic agentsDiagnosisICD-9-CM963.0Poisoning by antiallergic and antiemetic drugsDiagnosisICD-9-CM963.1Poisoning by acidifying agentsDiagnosisICD-9-CM963.2Poisoning by acidifying agentsDiagnosisICD-9-CM963.3Poisoning by alkalizing agentsDiagnosisICD-9-CM963.4Poisoning by enzymes, not elsewhere classifiedDiagnosisICD-9-CM963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.1Poisoning by anticoagulantsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	962.5	Poisoning by posterior pituitary hormones	Diagnosis	ICD-9-CM
962.8Poisoning by antithyroid agentsDiagnosisICD-9-CM962.9Poisoning by other and unspecified hormones and synthetic substitutesDiagnosisICD-9-CM963Poisoning by primarily systemic agentsDiagnosisICD-9-CM963.0Poisoning by antiallergic and antiemetic drugsDiagnosisICD-9-CM963.1Poisoning by actidifying agentsDiagnosisICD-9-CM963.2Poisoning by actidifying agentsDiagnosisICD-9-CM963.3Poisoning by alkalizing agentsDiagnosisICD-9-CM963.4Poisoning by enzymes, not elsewhere classifiedDiagnosisICD-9-CM963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by iron and its compoundsDiagnosisICD-9-CM964.1Poisoning by anticoagulantsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	962.6	Poisoning by parathyroid and parathyroid derivatives	Diagnosis	ICD-9-CM
962.9Poisoning by other and unspecified hormones and synthetic substitutesDiagnosisICD-9-CM963Poisoning by primarily systemic agentsDiagnosisICD-9-CM963.0Poisoning by antiallergic and antiemetic drugsDiagnosisICD-9-CM963.1Poisoning by antineoplastic and immunosuppressive drugsDiagnosisICD-9-CM963.2Poisoning by acidifying agentsDiagnosisICD-9-CM963.3Poisoning by alkalizing agentsDiagnosisICD-9-CM963.4Poisoning by enzymes, not elsewhere classifiedDiagnosisICD-9-CM963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by iron and its compoundsDiagnosisICD-9-CM964.1Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	962.7	Poisoning by thyroid and thyroid derivatives	Diagnosis	ICD-9-CM
Poisoning by primarily systemic agents Poisoning by antiallergic and antiemetic drugs Poisoning by antiallergic and antiemetic drugs Poisoning by antineoplastic and immunosuppressive drugs Poisoning by acidifying agents Poisoning by acidifying agents Poisoning by alkalizing agents Poisoning by enzymes, not elsewhere classified Poisoning by vitamins, not elsewhere classified Poisoning by vitamins, not elsewhere classified Poisoning by other specified systemic agents Poisoning by unspecified systemic agent Poisoning by agents primarily affecting blood constituents Poisoning by iron and its compounds Poisoning by liver preparations and other antianemic agents Diagnosis ICD-9-CM Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by anticoagulants	962.8	Poisoning by antithyroid agents	Diagnosis	ICD-9-CM
Poisoning by antiallergic and antiemetic drugs Poisoning by antineoplastic and immunosuppressive drugs Poisoning by acidifying agents Poisoning by alkalizing agents Poisoning by enzymes, not elsewhere classified Poisoning by vitamins, not elsewhere classified Poisoning by other specified systemic agents Poisoning by unspecified systemic agent Poisoning by unspecified systemic agent Poisoning by agents primarily affecting blood constituents Poisoning by iron and its compounds Poisoning by liver preparations and other antianemic agents Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by iron and its compounds Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by anticoagulants	962.9	Poisoning by other and unspecified hormones and synthetic substitutes	Diagnosis	ICD-9-CM
Poisoning by antineoplastic and immunosuppressive drugs Poisoning by acidifying agents Poisoning by alkalizing agents Poisoning by enzymes, not elsewhere classified Poisoning by vitamins, not elsewhere classified Poisoning by other specified systemic agents Poisoning by unspecified systemic agent Poisoning by agents primarily affecting blood constituents Poisoning by iron and its compounds Poisoning by liver preparations and other antianemic agents Diagnosis ICD-9-CM Poisoning by iron and its compounds Poisoning by agents primarily affecting blood constituents Poisoning by agents Diagnosis ICD-9-CM Poisoning by iron and its compounds Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by anticoagulants	963	Poisoning by primarily systemic agents	Diagnosis	ICD-9-CM
963.2Poisoning by acidifying agentsDiagnosisICD-9-CM963.3Poisoning by alkalizing agentsDiagnosisICD-9-CM963.4Poisoning by enzymes, not elsewhere classifiedDiagnosisICD-9-CM963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by iron and its compoundsDiagnosisICD-9-CM964.1Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	963.0	Poisoning by antiallergic and antiemetic drugs	Diagnosis	ICD-9-CM
Poisoning by alkalizing agents Poisoning by enzymes, not elsewhere classified Poisoning by vitamins, not elsewhere classified Poisoning by vitamins, not elsewhere classified Poisoning by other specified systemic agents Poisoning by unspecified systemic agent Poisoning by unspecified systemic agent Poisoning by agents primarily affecting blood constituents Poisoning by iron and its compounds Poisoning by liver preparations and other antianemic agents Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by liver preparations and other antianemic agents Diagnosis ICD-9-CM Poisoning by anticoagulants Diagnosis ICD-9-CM Poisoning by anticoagulants	963.1	Poisoning by antineoplastic and immunosuppressive drugs	Diagnosis	ICD-9-CM
963.4 Poisoning by enzymes, not elsewhere classified 963.5 Poisoning by vitamins, not elsewhere classified 963.8 Poisoning by other specified systemic agents 963.9 Poisoning by unspecified systemic agent 964 Poisoning by agents primarily affecting blood constituents 964.0 Poisoning by iron and its compounds 964.1 Poisoning by liver preparations and other antianemic agents 964.2 Poisoning by anticoagulants Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM	963.2	Poisoning by acidifying agents	Diagnosis	ICD-9-CM
963.5Poisoning by vitamins, not elsewhere classifiedDiagnosisICD-9-CM963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by iron and its compoundsDiagnosisICD-9-CM964.1Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	963.3	Poisoning by alkalizing agents	Diagnosis	ICD-9-CM
963.8Poisoning by other specified systemic agentsDiagnosisICD-9-CM963.9Poisoning by unspecified systemic agentDiagnosisICD-9-CM964Poisoning by agents primarily affecting blood constituentsDiagnosisICD-9-CM964.0Poisoning by iron and its compoundsDiagnosisICD-9-CM964.1Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	963.4	Poisoning by enzymes, not elsewhere classified	Diagnosis	ICD-9-CM
Poisoning by unspecified systemic agent Diagnosis ICD-9-CM Poisoning by agents primarily affecting blood constituents Diagnosis ICD-9-CM Poisoning by iron and its compounds Diagnosis ICD-9-CM Poisoning by liver preparations and other antianemic agents Diagnosis ICD-9-CM Poisoning by anticoagulants Diagnosis ICD-9-CM	963.5	Poisoning by vitamins, not elsewhere classified	Diagnosis	ICD-9-CM
Poisoning by agents primarily affecting blood constituents Diagnosis ICD-9-CM Poisoning by iron and its compounds Diagnosis ICD-9-CM Poisoning by liver preparations and other antianemic agents Poisoning by anticoagulants Diagnosis ICD-9-CM Diagnosis ICD-9-CM	963.8	Poisoning by other specified systemic agents	Diagnosis	ICD-9-CM
964.0Poisoning by iron and its compoundsDiagnosisICD-9-CM964.1Poisoning by liver preparations and other antianemic agentsDiagnosisICD-9-CM964.2Poisoning by anticoagulantsDiagnosisICD-9-CM	963.9	Poisoning by unspecified systemic agent	Diagnosis	ICD-9-CM
964.1 Poisoning by liver preparations and other antianemic agents Diagnosis ICD-9-CM 964.2 Poisoning by anticoagulants Diagnosis ICD-9-CM	964	Poisoning by agents primarily affecting blood constituents	Diagnosis	ICD-9-CM
964.2 Poisoning by anticoagulants Diagnosis ICD-9-CM	964.0	Poisoning by iron and its compounds	Diagnosis	ICD-9-CM
	964.1	Poisoning by liver preparations and other antianemic agents	Diagnosis	ICD-9-CM
964.3 Poisoning by vitamin K (phytonadione) Diagnosis ICD-9-CM	964.2	Poisoning by anticoagulants	Diagnosis	ICD-9-CM
	964.3	Poisoning by vitamin K (phytonadione)	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 36 of 79



Code	Description	Code Type	Code Category
964.4	Poisoning by fibrinolysis-affecting drugs	Diagnosis	ICD-9-CM
964.5	Poisoning by anticoagulant antagonists and other coagulants	Diagnosis	ICD-9-CM
964.6	Poisoning by gamma globulin	Diagnosis	ICD-9-CM
964.7	Poisoning by natural blood and blood products	Diagnosis	ICD-9-CM
964.8	Poisoning by other specified agents affecting blood constituents	Diagnosis	ICD-9-CM
964.9	Poisoning by unspecified agent affecting blood constituents	Diagnosis	ICD-9-CM
965	Poisoning by analgesics, antipyretics, and antirheumatics	Diagnosis	ICD-9-CM
965.0	Poisoning by opiates and related narcotics	Diagnosis	ICD-9-CM
965.00	Poisoning by opium (alkaloids), unspecified	Diagnosis	ICD-9-CM
965.01	Poisoning by heroin	Diagnosis	ICD-9-CM
965.02	Poisoning by methadone	Diagnosis	ICD-9-CM
965.09	Poisoning by opiates and related narcotics, other	Diagnosis	ICD-9-CM
965.1	Poisoning by salicylates	Diagnosis	ICD-9-CM
965.4	Poisoning by aromatic analgesics, not elsewhere classified	Diagnosis	ICD-9-CM
965.5	Poisoning by pyrazole derivatives	Diagnosis	ICD-9-CM
965.6	Poisoning by antirheumatics (antiphlogistics)	Diagnosis	ICD-9-CM
965.61	Poisoning by propionic acid derivatives	Diagnosis	ICD-9-CM
965.69	Poisoning by other antirheumatics	Diagnosis	ICD-9-CM
965.7	Poisoning by other non-narcotic analgesics	Diagnosis	ICD-9-CM
965.8	Poisoning by other specified analgesics and antipyretics	Diagnosis	ICD-9-CM
965.9	Poisoning by unspecified analgesic and antipyretic	Diagnosis	ICD-9-CM
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Diagnosis	ICD-9-CM
966.0	Poisoning by oxazolidine derivatives	Diagnosis	ICD-9-CM
966.1	Poisoning by hydantoin derivatives	Diagnosis	ICD-9-CM
966.2	Poisoning by succinimides	Diagnosis	ICD-9-CM
966.3	Poisoning by other and unspecified anticonvulsants	Diagnosis	ICD-9-CM
966.4	Poisoning by anti-Parkinsonism drugs	Diagnosis	ICD-9-CM
967	Poisoning by sedatives and hypnotics	Diagnosis	ICD-9-CM
967.0	Poisoning by barbiturates	Diagnosis	ICD-9-CM
967.1	Poisoning by chloral hydrate group	Diagnosis	ICD-9-CM
967.2	Poisoning by paraldehyde	Diagnosis	ICD-9-CM
967.3	Poisoning by bromine compounds	Diagnosis	ICD-9-CM
967.4	Poisoning by methaqualone compounds	Diagnosis	ICD-9-CM
967.5	Poisoning by glutethimide group	Diagnosis	ICD-9-CM
967.6	Poisoning by mixed sedatives, not elsewhere classified	Diagnosis	ICD-9-CM
967.8	Poisoning by other sedatives and hypnotics	Diagnosis	ICD-9-CM
967.9	Poisoning by unspecified sedative or hypnotic	Diagnosis	ICD-9-CM
968	Poisoning by other central nervous system depressants and anesthetics	Diagnosis	ICD-9-CM
968.0	Poisoning by central nervous system muscle-tone depressants	Diagnosis	ICD-9-CM
968.1	Poisoning by halothane	Diagnosis	ICD-9-CM
968.2	Poisoning by other gaseous anesthetics	Diagnosis	ICD-9-CM
968.3	Poisoning by intravenous anesthetics	Diagnosis	ICD-9-CM
968.4	Poisoning by other and unspecified general anesthetics	Diagnosis	ICD-9-CM
968.5	Poisoning by other central nervous system depressants and anesthetics, Surface (topical) and infiltration anesthetics	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 37 of 79



Code	Description	Code Type	Code Category
968.6	Poisoning by peripheral nerve- and plexus-blocking anesthetics	Diagnosis	ICD-9-CM
968.7	Poisoning by spinal anesthetics	Diagnosis	ICD-9-CM
968.9	Poisoning by other and unspecified local anesthetics	Diagnosis	ICD-9-CM
969	Poisoning by psychotropic agents	Diagnosis	ICD-9-CM
969.0	Poisoning by antidepressants	Diagnosis	ICD-9-CM
969.00	Poisoning by antidepressant, unspecified	Diagnosis	ICD-9-CM
969.01	Poisoning by monoamine oxidase inhibitors	Diagnosis	ICD-9-CM
969.02	Poisoning by selective serotonin and norepinephrine reuptake inhibitors	Diagnosis	ICD-9-CM
969.03	Poisoning by selective serotonin reuptake inhibitors	Diagnosis	ICD-9-CM
969.04	Poisoning by tetracyclic antidepressants	Diagnosis	ICD-9-CM
969.05	Poisoning by tricyclic antidepressants	Diagnosis	ICD-9-CM
969.09	Poisoning by other antidepressants	Diagnosis	ICD-9-CM
969.1	Poisoning by phenothiazine-based tranquilizers	Diagnosis	ICD-9-CM
969.2	Poisoning by butyrophenone-based tranquilizers	Diagnosis	ICD-9-CM
969.3	Poisoning by other antipsychotics, neuroleptics, and major tranquilizers	Diagnosis	ICD-9-CM
969.4	Poisoning by benzodiazepine-based tranquilizers	Diagnosis	ICD-9-CM
969.5	Poisoning by other tranquilizers	Diagnosis	ICD-9-CM
969.6	Poisoning by psychodysleptics (hallucinogens)	Diagnosis	ICD-9-CM
969.7	Poisoning by psychostimulants	Diagnosis	ICD-9-CM
969.70	Poisoning by psychostimulant, unspecified	Diagnosis	ICD-9-CM
969.71	Poisoning by caffeine	Diagnosis	ICD-9-CM
969.72	Poisoning by amphetamines	Diagnosis	ICD-9-CM
969.73	Poisoning by methylphenidate	Diagnosis	ICD-9-CM
969.79	Poisoning by other psychostimulants	Diagnosis	ICD-9-CM
969.8	Poisoning by other specified psychotropic agents	Diagnosis	ICD-9-CM
969.9	Poisoning by unspecified psychotropic agent	Diagnosis	ICD-9-CM
970	Poisoning by central nervous system stimulants	Diagnosis	ICD-9-CM
970.0	Poisoning by analeptics	Diagnosis	ICD-9-CM
970.1	Poisoning by opiate antagonists	Diagnosis	ICD-9-CM
970.8	Poisoning by other specified central nervous system stimulants	Diagnosis	ICD-9-CM
970.81	Poisoning by cocaine	Diagnosis	ICD-9-CM
970.89	Poisoning by other central nervous system stimulants	Diagnosis	ICD-9-CM
970.9	Poisoning by unspecified central nervous system stimulant	Diagnosis	ICD-9-CM
971	Poisoning by drugs primarily affecting the autonomic nervous system	Diagnosis	ICD-9-CM
971.0	Poisoning by parasympathomimetics (cholinergics)	Diagnosis	ICD-9-CM
971.1	Poisoning by parasympatholytics (anticholinergics and antimuscarinics) and	Diagnosis	ICD-9-CM
	spasmolytics		
971.2	Poisoning by sympathomimetics (adrenergics)	Diagnosis	ICD-9-CM
971.3	Poisoning by sympatholytics (antiadrenergics)	Diagnosis	ICD-9-CM
971.9	Poisoning by unspecified drug primarily affecting autonomic nervous system	Diagnosis	ICD-9-CM
972	Poisoning by agents primarily affecting the cardiovascular system	Diagnosis	ICD-9-CM
972.0	Poisoning by cardiac rhythm regulators	Diagnosis	ICD-9-CM
972.1	Poisoning by cardiotonic glycosides and drugs of similar action	Diagnosis	ICD-9-CM
972.2	Poisoning by antilipemic and antiarteriosclerotic drugs	Diagnosis	ICD-9-CM
972.3	Poisoning by ganglion-blocking agents	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 38 of 79



Code	Description	Code Type	Code Category
972.4	Poisoning by coronary vasodilators	Diagnosis	ICD-9-CM
972.5	Poisoning by other vasodilators	Diagnosis	ICD-9-CM
972.6	Poisoning by other antihypertensive agents	Diagnosis	ICD-9-CM
972.7	Poisoning by antivaricose drugs, including sclerosing agents	Diagnosis	ICD-9-CM
972.8	Poisoning by capillary-active drugs	Diagnosis	ICD-9-CM
972.9	Poisoning by other and unspecified agents primarily affecting the cardiovascular system	Diagnosis	ICD-9-CM
973	Poisoning by agents primarily affecting the gastrointestinal system	Diagnosis	ICD-9-CM
973.0	Poisoning by antacids and antigastric secretion drugs	Diagnosis	ICD-9-CM
973.1	Poisoning by irritant cathartics	Diagnosis	ICD-9-CM
973.2	Poisoning by emollient cathartics	Diagnosis	ICD-9-CM
973.3	Poisoning by other cathartics, including intestinal atonia drugs	Diagnosis	ICD-9-CM
973.4	Poisoning by digestants	Diagnosis	ICD-9-CM
973.5	Poisoning by antidiarrheal drugs	Diagnosis	ICD-9-CM
973.6	Poisoning by emetics	Diagnosis	ICD-9-CM
973.8	Poisoning by other specified agents primarily affecting the gastrointestinal system	Diagnosis	ICD-9-CM
973.9	Poisoning by unspecified agent primarily affecting the gastrointestinal system	Diagnosis	ICD-9-CM
974	Poisoning by water, mineral, and uric acid metabolism drugs	Diagnosis	ICD-9-CM
974.0	Poisoning by mercurial diuretics	Diagnosis	ICD-9-CM
974.1	Poisoning by purine derivative diuretics	Diagnosis	ICD-9-CM
974.2	Poisoning by carbonic acid anhydrase inhibitors	Diagnosis	ICD-9-CM
974.3	Poisoning by saluretics	Diagnosis	ICD-9-CM
974.4	Poisoning by other diuretics	Diagnosis	ICD-9-CM
974.5	Poisoning by electrolytic, caloric, and water-balance agents	Diagnosis	ICD-9-CM
974.6	Poisoning by other mineral salts, not elsewhere classified	Diagnosis	ICD-9-CM
974.7	Poisoning by uric acid metabolism drugs	Diagnosis	ICD-9-CM
975	Poisoning by agents primarily acting on the smooth and skeletal muscles and respiratory system	Diagnosis	ICD-9-CM
975.0	Poisoning by oxytocic agents	Diagnosis	ICD-9-CM
975.1	Poisoning by smooth muscle relaxants	Diagnosis	ICD-9-CM
975.2	Poisoning by skeletal muscle relaxants	Diagnosis	ICD-9-CM
975.3	Poisoning by other and unspecified drugs acting on muscles	Diagnosis	ICD-9-CM
975.4	Poisoning by antitussives	Diagnosis	ICD-9-CM
975.5	Poisoning by expectorants	Diagnosis	ICD-9-CM
975.6	Poisoning by anti-common cold drugs	Diagnosis	ICD-9-CM
975.7	Poisoning by antiasthmatics	Diagnosis	ICD-9-CM
975.8	Poisoning by other and unspecified respiratory drugs	Diagnosis	ICD-9-CM
976	Poisoning by agents primarily affecting skin and mucous membrane, ophthalmological, otorhinolaryngological, and dental drugs	Diagnosis	ICD-9-CM
976.0	Poisoning by local anti-infectives and anti-inflammatory drugs	Diagnosis	ICD-9-CM
976.1	Poisoning by antipruritics	Diagnosis	ICD-9-CM
976.2	Poisoning by local astringents and local detergents	Diagnosis	ICD-9-CM
976.3	Poisoning by emollients, demulcents, and protectants	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 39 of 79



Code	Description	Code Type	Code Category
976.4	Poisoning by keratolytics, keratoplastics, other hair treatment drugs and	Diagnosis	ICD-9-CM
	preparations		
976.5	Poisoning by eye anti-infectives and other eye drugs	Diagnosis	ICD-9-CM
976.6	Poisoning by anti-infectives and other drugs and preparations for ear, nose, and throat	Diagnosis	ICD-9-CM
976.7	Poisoning by dental drugs topically applied	Diagnosis	ICD-9-CM
976.8	Poisoning by other agents primarily affecting skin and mucous membrane	Diagnosis	ICD-9-CM
976.9	Poisoning by unspecified agent primarily affecting skin and mucous membrane	Diagnosis	ICD-9-CM
977	Poisoning by other and unspecified drugs and medicinal substances	Diagnosis	ICD-9-CM
977.0	Poisoning by dietetics	Diagnosis	ICD-9-CM
977.1	Poisoning by lipotropic drugs	Diagnosis	ICD-9-CM
977.2	Poisoning by antidotes and chelating agents, not elsewhere classified	Diagnosis	ICD-9-CM
977.3	Poisoning by alcohol deterrents	Diagnosis	ICD-9-CM
977.4	Poisoning by pharmaceutical excipients	Diagnosis	ICD-9-CM
977.8	Poisoning by other specified drugs and medicinal substances	Diagnosis	ICD-9-CM
977.9	Poisoning by unspecified drug or medicinal substance	Diagnosis	ICD-9-CM
978	Poisoning by bacterial vaccines	Diagnosis	ICD-9-CM
978.0	Poisoning by BCG vaccine	Diagnosis	ICD-9-CM
978.1	Poisoning by typhoid and paratyphoid vaccine	Diagnosis	ICD-9-CM
978.2	Poisoning by cholera vaccine	Diagnosis	ICD-9-CM
978.3	Poisoning by plague vaccine	Diagnosis	ICD-9-CM
978.4	Poisoning by tetanus vaccine	Diagnosis	ICD-9-CM
978.5	Poisoning by diphtheria vaccine	Diagnosis	ICD-9-CM
978.6	Poisoning by pertussis vaccine, including combinations with pertussis component	Diagnosis	ICD-9-CM
978.8	Poisoning by other and unspecified bacterial vaccines	Diagnosis	ICD-9-CM
978.9	Poisoning by mixed bacterial vaccines, except combinations with pertussis component	Diagnosis	ICD-9-CM
979	Poisoning by other vaccines and biological substances	Diagnosis	ICD-9-CM
979.0	Poisoning by smallpox vaccine	Diagnosis	ICD-9-CM
979.1	Poisoning by rabies vaccine	Diagnosis	ICD-9-CM
979.2	Poisoning by typhus vaccine	Diagnosis	ICD-9-CM
979.3	Poisoning by yellow fever vaccine	Diagnosis	ICD-9-CM
979.4	Poisoning by measles vaccine	Diagnosis	ICD-9-CM
979.5	Poisoning by poliomyelitis vaccine	Diagnosis	ICD-9-CM
979.6	Poisoning by other and unspecified viral and rickettsial vaccines	Diagnosis	ICD-9-CM
979.7	Poisoning by mixed viral-rickettsial and bacterial vaccines, except	Diagnosis	ICD-9-CM
	combinations with pertussis component	J	
979.9	Poisoning by other and unspecified vaccines and biological substances	Diagnosis	ICD-9-CM
881	Open wound of elbow, forearm, and wrist	Diagnosis	ICD-9-CM
980	Toxic effect of alcohol	Diagnosis	ICD-9-CM
980.0	Toxic effect of ethyl alcohol	Diagnosis	ICD-9-CM
980.1	Toxic effect of methyl alcohol	Diagnosis	ICD-9-CM
980.2	Toxic effect of isopropyl alcohol	Diagnosis	ICD-9-CM
980.3	Toxic effect of fusel oil	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 40 of 79



Code	Description	Code Type	Code Category
980.8	Toxic effect of other specified alcohols	Diagnosis	ICD-9-CM
980.9	Toxic effect of unspecified alcohol	Diagnosis	ICD-9-CM
981	Toxic effect of petroleum products	Diagnosis	ICD-9-CM
982	Toxic effect of solvents other than petroleum-based	Diagnosis	ICD-9-CM
982.0	Toxic effect of benzene and homologues	Diagnosis	ICD-9-CM
982.1	Toxic effect of carbon tetrachloride	Diagnosis	ICD-9-CM
982.2	Toxic effect of carbon disulfide	Diagnosis	ICD-9-CM
982.3	Toxic effect of other chlorinated hydrocarbon solvents	Diagnosis	ICD-9-CM
982.4	Toxic effect of nitroglycol	Diagnosis	ICD-9-CM
982.8	Toxic effect of other nonpetroleum-based solvents	Diagnosis	ICD-9-CM
983	Toxic effect of corrosive aromatics, acids, and caustic alkalis	Diagnosis	ICD-9-CM
983.0	Toxic effect of corrosive aromatics	Diagnosis	ICD-9-CM
983.1	Toxic effect of acids	Diagnosis	ICD-9-CM
983.2	Toxic effect of caustic alkalis	Diagnosis	ICD-9-CM
983.9	Toxic effect of caustic, unspecified	Diagnosis	ICD-9-CM
984	Toxic effect of lead and its compounds (including fumes)	Diagnosis	ICD-9-CM
984.0	Toxic effect of inorganic lead compounds	Diagnosis	ICD-9-CM
984.1	Toxic effect of organic lead compounds	Diagnosis	ICD-9-CM
984.8	Toxic effect of other lead compounds	Diagnosis	ICD-9-CM
984.9	Toxic effect of unspecified lead compound	Diagnosis	ICD-9-CM
985	Toxic effect of other metals	Diagnosis	ICD-9-CM
985.0	Toxic effect of mercury and its compounds	Diagnosis	ICD-9-CM
985.1	Toxic effect of arsenic and its compounds	Diagnosis	ICD-9-CM
985.2	Toxic effect of manganese and its compounds	Diagnosis	ICD-9-CM
985.3	Toxic effect of beryllium and its compounds	Diagnosis	ICD-9-CM
985.4	Toxic effect of antimony and its compounds	Diagnosis	ICD-9-CM
985.5	Toxic effect of cadmium and its compounds	Diagnosis	ICD-9-CM
985.6	Toxic effect of chromium	Diagnosis	ICD-9-CM
985.8	Toxic effect of other specified metals	Diagnosis	ICD-9-CM
985.9	Toxic effect of unspecified metal	Diagnosis	ICD-9-CM
986	Toxic effect of carbon monoxide	Diagnosis	ICD-9-CM
987	Toxic effect of other gases, fumes, or vapors	Diagnosis	ICD-9-CM
987.0	Toxic effect of liquefied petroleum gases	Diagnosis	ICD-9-CM
987.1	Toxic effect of other hydrocarbon gas	Diagnosis	ICD-9-CM
987.2	Toxic effect of nitrogen oxides	Diagnosis	ICD-9-CM
987.3	Toxic effect of sulfur dioxide	Diagnosis	ICD-9-CM
987.4	Toxic effect of freon	Diagnosis	ICD-9-CM
987.5	Toxic effect of lacrimogenic gas	Diagnosis	ICD-9-CM
987.6	Toxic effect of chlorine gas	Diagnosis	ICD-9-CM
987.7	Toxic effect of hydrocyanic acid gas	Diagnosis	ICD-9-CM
987.8	Toxic effect of other specified gases, fumes, or vapors	Diagnosis	ICD-9-CM
987.9	Toxic effect of unspecified gas, fume, or vapor	Diagnosis	ICD-9-CM
988	Toxic effect of noxious substances eaten as food	Diagnosis	ICD-9-CM
988.0	Toxic effect of fish and shellfish	Diagnosis	ICD-9-CM
988.1	Toxic effect of mushrooms	Diagnosis	ICD-9-CM
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cder_mpl2p_wp020 Page 41 of 79



Code	Description	Code Type	Code Category
988.2	Toxic effect of berries and other plants	Diagnosis	ICD-9-CM
988.8	Toxic effect of other specified noxious substances	Diagnosis	ICD-9-CM
988.9	Toxic effect of unspecified noxious substance	Diagnosis	ICD-9-CM
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Diagnosis	ICD-9-CM
989.0	Toxic effect of hydrocyanic acid and cyanides	Diagnosis	ICD-9-CM
989.1	Toxic effect of strychnine and salts	Diagnosis	ICD-9-CM
989.2	Toxic effect of chlorinated hydrocarbons	Diagnosis	ICD-9-CM
989.3	Toxic effect of organophosphate and carbamate	Diagnosis	ICD-9-CM
989.4	Toxic effect of other pesticides, not elsewhere classified	Diagnosis	ICD-9-CM
989.5	Toxic effect of venom	Diagnosis	ICD-9-CM
989.6	Toxic effect of soaps and detergents	Diagnosis	ICD-9-CM
989.7	Toxic effect of aflatoxin and other mycotoxin (food contaminants)	Diagnosis	ICD-9-CM
989.8	Toxic effect of other substances, chiefly nonmedicinal as to source	Diagnosis	ICD-9-CM
989.81	Toxic effect of asbestos	Diagnosis	ICD-9-CM
989.82	Toxic effect of latex	Diagnosis	ICD-9-CM
989.83	Toxic effect of silicone	Diagnosis	ICD-9-CM
989.84	Toxic effect of tobacco	Diagnosis	ICD-9-CM
989.89	Toxic effect of other substances	Diagnosis	ICD-9-CM
989.9	Toxic effect of unspecified substance, chiefly nonmedicinal as to source	Diagnosis	ICD-9-CM
994.7	Asphyxiation and strangulation	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 42 of 79



Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code	Description	Code Type	Code Category
	Mood or Depressive Disorder (Inclusion)		
311	Depressive disorder, not elsewhere classified	Diagnosis	ICD-9-CM
293.83	Mood disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM
296.2	Major depressive disorder, single episode	Diagnosis	ICD-9-CM
296.20	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-9-CM
296.21	Major depressive disorder, single episode, mild	Diagnosis	ICD-9-CM
296.22	Major depressive disorder, single episode, moderate	Diagnosis	ICD-9-CM
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.25	Major depressive disorder, single episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.26	Major depressive disorder, single episode in full remission	Diagnosis	ICD-9-CM
296.3	Major depressive disorder, recurrent episode	Diagnosis	ICD-9-CM
296.30	Major depressive disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.31	Major depressive disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.32	Major depressive disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.36	Major depressive disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
296.5	Bipolar I disorder, most recent episode (or current), depressed	Diagnosis	ICD-9-CM
296.50	Bipolar I disorder, most recent episode (or current) depressed, unspecified	Diagnosis	ICD-9-CM
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	Diagnosis	ICD-9-CM
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	Diagnosis	ICD-9-CM
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	Diagnosis	ICD-9-CM
296.90	Unspecified episodic mood disorder	Diagnosis	ICD-9-CM
298.0	Depressive type psychosis	Diagnosis	ICD-9-CM
300.4	Dysthymic disorder	Diagnosis	ICD-9-CM
301.12	Chronic depressive personality disorder	Diagnosis	ICD-9-CM
309.0	Adjustment disorder with depressed mood	Diagnosis	ICD-9-CM
309.1	Prolonged depressive reaction as adjustment reaction	Diagnosis	ICD-9-CM
309.28	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-9-CM
Traumatic Brain Injury (Exclusion)			
851	Cerebral laceration and contusion	Diagnosis	ICD-9-CM
851.0	Cortex (cerebral) contusion without mention of open intracranial wound	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 43 of 79



Code	Description	Code Type	Code Category
851.00	Cortex (cerebral) contusion without mention of open intracranial wound, state of consciousness unspecified	Diagnosis	ICD-9-CM
851.01	Cortex (cerebral) contusion without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.02	Cortex (cerebral) contusion without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.03	Cortex (cerebral) contusion without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.04	Cortex (cerebral) contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.05	Cortex (cerebral) contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.06	Cortex (cerebral) contusion without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.09	Cortex (cerebral) contusion without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.1	Cortex (cerebral) contusion with open intracranial wound	Diagnosis	ICD-9-CM
851.10	Cortex (cerebral) contusion with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.11	Cortex (cerebral) contusion with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.12	Cortex (cerebral) contusion with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.13	Cortex (cerebral) contusion with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.14	Cortex (cerebral) contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.15	Cortex (cerebral) contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.16	Cortex (cerebral) contusion with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.19	Cortex (cerebral) contusion with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.2	Cortex (cerebral) laceration without mention of open intracranial wound	Diagnosis	ICD-9-CM
851.20	Cortex (cerebral) laceration without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.21	Cortex (cerebral) laceration without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.22	Cortex (cerebral) laceration without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.23	Cortex (cerebral) laceration without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 44 of 79



Code	Description	Code Type	Code Category
851.24	Cortex (cerebral) laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.25	Cortex (cerebral) laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.26	Cortex (cerebral) laceration without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.29	Cortex (cerebral) laceration without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.3	Cortex (cerebral) laceration with open intracranial wound	Diagnosis	ICD-9-CM
851.30	Cortex (cerebral) laceration with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.31	Cortex (cerebral) laceration with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.32	Cortex (cerebral) laceration with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.33	Cortex (cerebral) laceration with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.34	Cortex (cerebral) laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.35	Cortex (cerebral) laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.36	Cortex (cerebral) laceration with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.39	Cortex (cerebral) laceration with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.4	Cerebellar or brain stem contusion without mention of open intracranial wound	Diagnosis	ICD-9-CM
851.40	Cerebellar or brain stem contusion without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.41	Cerebellar or brain stem contusion without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.42	Cerebellar or brain stem contusion without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.43	Cerebellar or brain stem contusion without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.44	Cerebellar or brain stem contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.45	Cerebellar or brain stem contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 45 of 79



Code	Description	Code Type	Code Category
851.46	Cerebellar or brain stem contusion without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.49	Cerebellar or brain stem contusion without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.5	Cerebellar or brain stem contusion with open intracranial wound	Diagnosis	ICD-9-CM
851.50	Cerebellar or brain stem contusion with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.51	Cerebellar or brain stem contusion with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.52	Cerebellar or brain stem contusion with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.53	Cerebellar or brain stem contusion with open intracranial wound, moderate (1-24 hours) loss of consciousness	- Diagnosis	ICD-9-CM
851.54	Cerebellar or brain stem contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.55	Cerebellar or brain stem contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.56	Cerebellar or brain stem contusion with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.59	Cerebellar or brain stem contusion with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.6	Cerebellar or brain stem laceration without mention of open intracranial wound	Diagnosis	ICD-9-CM
851.60	Cerebellar or brain stem laceration without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.61	Cerebellar or brain stem laceration without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.62	Cerebellar or brain stem laceration without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.63	Cerebellar or brain stem laceration without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.64	Cerebellar or brain stem laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.65	Cerebellar or brain stem laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.66	Cerebellar or brain stem laceration without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.69	Cerebellar or brain stem laceration without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.7	Cerebellar or brain stem laceration with open intracranial wound	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 46 of 79



Code	Description	Code Type	Code Category
851.70	Cerebellar or brain stem laceration with open intracranial wound, state of consciousness unspecified	Diagnosis	ICD-9-CM
851.71	Cerebellar or brain stem laceration with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.72	Cerebellar or brain stem laceration with open intracranial wound, brief (less than one hour) loss of consciousness	Diagnosis	ICD-9-CM
851.73	Cerebellar or brain stem laceration with open intracranial wound, moderate (1 24 hours) loss of consciousness	- Diagnosis	ICD-9-CM
851.74	Cerebellar or brain stem laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.75	Cerebellar or brain stem laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.76	Cerebellar or brain stem laceration with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.79	Cerebellar or brain stem laceration with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.8	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound	Diagnosis	ICD-9-CM
851.80	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.81	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
851.82	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.83	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.84	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	Diagnosis	ICD-9-CM
851.85	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.86	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.89	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
851.9	Other and unspecified cerebral laceration and contusion, with open intracranial wound	Diagnosis	ICD-9-CM
851.90	Other and unspecified cerebral laceration and contusion, with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
851.91	Other and unspecified cerebral laceration and contusion, with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 47 of 79



Code	Description	Code Type	Code Category
851.92	Other and unspecified cerebral laceration and contusion, with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
851.93	Other and unspecified cerebral laceration and contusion, with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
851.94	Other and unspecified cerebral laceration and contusion, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.95	Other and unspecified cerebral laceration and contusion, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
851.96	Other and unspecified cerebral laceration and contusion, with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
851.99	Other and unspecified cerebral laceration and contusion, with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
852	Subarachnoid, subdural, and extradural hemorrhage, following injury	Diagnosis	ICD-9-CM
852.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	Diagnosis	ICD-9-CM
852.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
852.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
852.04	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.05	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
852.1	Subarachnoid hemorrhage following injury, with open intracranial wound	Diagnosis	ICD-9-CM
852.10	Subarachnoid hemorrhage following injury, with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
852.11	Subarachnoid hemorrhage following injury, with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
852.12	Subarachnoid hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
852.13	Subarachnoid hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 48 of 79



Code	Description	Code Type	Code Category
852.14	Subarachnoid hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.15	Subarachnoid hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.16	Subarachnoid hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
852.19	Subarachnoid hemorrhage following injury, with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	Diagnosis	ICD-9-CM
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	Diagnosis	ICD-9-CM
852.23	Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
852.24	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.25	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
852.3	Subdural hemorrhage following injury, with open intracranial wound	Diagnosis	ICD-9-CM
852.30	Subdural hemorrhage following injury, with open intracranial wound, state of consciousness unspecified	Diagnosis	ICD-9-CM
852.31	Subdural hemorrhage following injury, with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
852.32	Subdural hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
852.33	Subdural hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
852.34	Subdural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.35	Subdural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 49 of 79



Code	Description	Code Type	Code Category
852.36	Subdural hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
852.39	Subdural hemorrhage following injury, with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
852.4	Extradural hemorrhage following injury without mention of open intracranial wound	Diagnosis	ICD-9-CM
852.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
852.44	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.45	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
852.5	Extradural hemorrhage following injury with open intracranial wound	Diagnosis	ICD-9-CM
852.50	Extradural hemorrhage following injury, with open intracranial wound, state of consciousness unspecified	Diagnosis	ICD-9-CM
852.51	Extradural hemorrhage following injury, with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
852.52	Extradural hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
852.53	Extradural hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
852.54	Extradural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.55	Extradural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
852.56	Extradural hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
852.59	Extradural hemorrhage following injury, with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
853	Other and unspecified intracranial hemorrhage following injury	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 50 of 79



Code	Description	Code Type	Code Category
853.0	Other and unspecified intracranial hemorrhage following injury, without	Diagnosis	ICD-9-CM
	mention of open intracranial wound		
853.00	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
853.01	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
853.02	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
853.03	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
853.04	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	Diagnosis	ICD-9-CM
853.05	Other and unspecified intracranial hemorrhage following injury. Without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
853.06	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
853.09	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
853.1	Other and unspecified intracranial hemorrhage following injury with open intracranial wound	Diagnosis	ICD-9-CM
853.10	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
853.11	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
853.12	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
853.13	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
853.14	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis I	ICD-9-CM
853.15	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
853.16	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
853.19	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
854	Intracranial injury of other and unspecified nature	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 51 of 79



Code	Description	Code Type	Code Category
854.0	Intracranial injury of other and unspecified nature without mention of open intracranial wound	Diagnosis	ICD-9-CM
854.00	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
854.01	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
854.02	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
854.03	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
854.04	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
854.05	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
854.06	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
854.09	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, unspecified concussion	Diagnosis	ICD-9-CM
854.1	Intracranial injury of other and unspecified nature with open intracranial wound	Diagnosis	ICD-9-CM
854.10	Intracranial injury of other and unspecified nature, with open intracranial wound, unspecified state of consciousness	Diagnosis	ICD-9-CM
854.11	Intracranial injury of other and unspecified nature, with open intracranial wound, no loss of consciousness	Diagnosis	ICD-9-CM
854.12	Intracranial injury of other and unspecified nature, with open intracranial wound, brief (less than 1 hour) loss of consciousness	Diagnosis	ICD-9-CM
854.13	Intracranial injury of other and unspecified nature, with open intracranial wound, moderate (1-24 hours) loss of consciousness	Diagnosis	ICD-9-CM
854.14	Intracranial injury of other and unspecified nature, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	Diagnosis	ICD-9-CM
854.15	Intracranial injury of other and unspecified nature, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	Diagnosis	ICD-9-CM
854.16	Intracranial injury of other and unspecified nature, with open intracranial wound, loss of consciousness of unspecified duration	Diagnosis	ICD-9-CM
854.19	Intracranial injury of other and unspecified nature, with open intracranial wound, with unspecified concussion	Diagnosis	ICD-9-CM
959.01	Head injury, unspecified		

cder_mpl2p_wp020 Page 52 of 79



Generic Name Brand Name

Other Generic Sertraline

sertraline HCL Sertraline

Non-Sertraline Antidepressants

amitriptyline HCl Amitriptyline
amitriptyline HCl Vanatrip
amitriptyline HCl/chlordiazepoxide Limbitrol
amitriptyline HCl/chlordiazepoxide Limbitrol DS

amitriptyline HCl/chlordiazepoxide Amitriptyline-Chlordiazepoxide

amoxapine Amoxapine bupropion HBr **Aplenzin** bupropion HCl **Bupropion HCl** bupropion HCI **Budeprion XL** bupropion HCl **Budeprion SR** Wellbutrin SR bupropion HCl Wellbutrin bupropion HCl bupropion HCl Wellbutrin XL bupropion HCl Forfivo XL bupropion HCI/dietary supplement combination no.15 Appbutamone-D

bupropion HCl/dietary supplement combination no.16 Appbutamone citalopram hydrobromide Citalopram hydrobromide Celexa clomipramine HCl Clomipramine

clomipramine HCl Clomipramine
clomipramine HCl Anafranil
desipramine HCl Norpramin
desipramine HCl Desipramine
desvenlafaxine Desvenlafaxine
desvenlafaxine Khedezla

desvenlafaxine fumarate Desvenlafaxine Fumarate

desvenlafaxine succinate Pristiq

desvenlafaxine succinate Desvenlafaxine Succinate

doxepin HClSinequandoxepin HClDoxepindoxepin HClSilenorduloxetine HClCymbaltaduloxetine HClDuloxetineduloxetine HClIrenka

escitalopram oxalate Escitalopram Oxalate

escitalopram oxalate Lexapro fluoxetine HCl Prozac Weekly fluoxetine HCl Fluoxetine fluoxetine HCl Selfemra fluoxetine HCl Prozac fluoxetine HCl Sarafem fluoxetine HCl Rapiflux fluoxetine HCI/dietary supplement no.17 Gaboxetine fluoxetine HCI/dietary supplement no.8 Sentroxatine

cder_mpl2p_wp020 Page 53 of 79



Generic Name	Brand Name
fluvoxamine maleate	Fluvoxamine
fluvoxamine maleate	Luvox CR
imipramine HCl	Tofranil
imipramine HCl	Imipramine HCl
imipramine pamoate	Imipramine Pamoate
imipramine pamoate	Tofranil-PM
isocarboxazid	Marplan
levomilnacipran HCl	Fetzima
maprotiline HCl	Maprotiline
mirtazapine	Remeron
mirtazapine	Remeron SolTab
mirtazapine	Mirtazapine
nefazodone HCl	Nefazodone
nefazodone HCl	Serzone
nortriptyline HCl	Pamelor
nortriptyline HCl	Nortriptyline
olanzapine/fluoxetine HCl	Symbyax
olanzapine/fluoxetine HCl	Olanzapine-Fluoxetine
paroxetine HCl	Paxil CR
paroxetine HCl	Paxil
paroxetine HCl	Paroxetine HCl
paroxetine mesylate	Paroxetine Mesylate (menop.sym)
paroxetine mesylate	Pexeva
paroxetine mesylate	Brisdelle
perphenazine/amitriptyline HCl	Perphenazine-Amitriptyline
perphenazine/amitriptyline HCl	Duo-Vil 2-10
perphenazine/amitriptyline HCl	Duo-Vil 2-25
phenelzine sulfate	Nardil
phenelzine sulfate	Phenelzine
protriptyline HCl	Protriptyline
protriptyline HCl	Vivactil
selegiline	Emsam
tranylcypromine sulfate	Parnate
tranylcypromine sulfate	Tranylcypromine
trazodone HCl	Desyrel
trazodone HCl	Trazodone
trazodone HCl	Oleptro ER
trazodone HCl/dietary supplement no.8	Trazamine
trimipramine maleate	Trimipramine
trimipramine maleate	Surmontil
venlafaxine HCl	Effexor
venlafaxine HCl	Effexor XR
venlafaxine HCl	Venlafaxine
vortioxetine hydrobromide	Brintellix
vortioxetine hydrobromide	Trintellix

cder_mpl2p_wp020 Page 54 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
	Anxiety		
300.02	Generalized anxiety disorder	Diagnosis	ICD-9-CM
300.0	Anxiety states	Diagnosis	ICD-9-CM
300.00	Anxiety state, unspecified	Diagnosis	ICD-9-CM
300.09	Other anxiety states	Diagnosis	ICD-9-CM
300.2	Phobic disorders	Diagnosis	ICD-9-CM
300.20	Phobia, unspecified	Diagnosis	ICD-9-CM
300.22	Agoraphobia without mention of panic attacks	Diagnosis	ICD-9-CM
300.29	Other isolated or specific phobias	Diagnosis	ICD-9-CM
300.01	Panic disorder without agoraphobia	Diagnosis	ICD-9-CM
300.21	Agoraphobia with panic disorder	Diagnosis	ICD-9-CM
300.23	Social phobia	Diagnosis	ICD-9-CM
	Behavioral Disorders		
314	Hyperkinetic syndrome of childhood	Diagnosis	ICD-9-CM
314.0	Attention deficit disorder of childhood	Diagnosis	ICD-9-CM
314.00	Attention deficit disorder without mention of hyperactivity	Diagnosis	ICD-9-CM
314.01	Attention deficit disorder with hyperactivity	Diagnosis	ICD-9-CM
314.1	Hyperkinesis with developmental delay	Diagnosis	ICD-9-CM
314.2	Hyperkinetic conduct disorder	Diagnosis	ICD-9-CM
314.8	Other specified manifestations of hyperkinetic syndrome	Diagnosis	ICD-9-CM
314.9	Unspecified hyperkinetic syndrome	Diagnosis	ICD-9-CM
312	Disturbance of conduct not elsewhere classified	Diagnosis	ICD-9-CM
312.0	Undersocialized conduct disorder aggressive type	Diagnosis	ICD-9-CM
312.00	Undersocialized conduct disorder aggressive type, unspecified	Diagnosis	ICD-9-CM
312.01	Undersocialized conduct disorder aggressive type, mild	Diagnosis	ICD-9-CM
312.02	Undersocialized conduct disorder aggressive type, moderate	Diagnosis	ICD-9-CM
312.03	Undersocialized conduct disorder aggressive, severe	Diagnosis	ICD-9-CM
312.1	Undersocialized conduct disorder unaggressive type	Diagnosis	ICD-9-CM
312.10	Undersocialized conduct disorder unaggressive type, unspecified	Diagnosis	ICD-9-CM
312.11	Undersocialized conduct disorder unaggressive type, mild	Diagnosis	ICD-9-CM
312.12	Undersocialized conduct disorder unaggressive type, moderate	Diagnosis	ICD-9-CM
312.13	Undersocialized conduct disorder unaggressive, severe	Diagnosis	ICD-9-CM
312.2	Socialized conduct disorder	Diagnosis	ICD-9-CM
312.20	Socialized conduct disorder, unspecified	Diagnosis	ICD-9-CM
312.21	Socialized conduct disorder, mild	Diagnosis	ICD-9-CM
312.22	Socialized conduct disorder, moderate	Diagnosis	ICD-9-CM
312.23	Socialized conduct disorder, severe	Diagnosis	ICD-9-CM
312.3	Disorders of impulse control not elsewhere classified	Diagnosis	ICD-9-CM
312.30	Impulse control disorder, unspecified	Diagnosis	ICD-9-CM
312.31	Pathological gambling	Diagnosis	ICD-9-CM
312.32	Kleptomania	Diagnosis	ICD-9-CM
312.33	Pyromania	Diagnosis	ICD-9-CM
312.34	Intermittent explosive disorder	Diagnosis	ICD-9-CM
312.35	Isolated explosive disorder	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 55 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
312.39	Other disorders of impulse control	Diagnosis	ICD-9-CM
312.4	Mixed disturbance of conduct and emotions	Diagnosis	ICD-9-CM
312.8	Other specified disturbances of conduct not elsewhere classified	Diagnosis	ICD-9-CM
312.81	Conduct disorder, childhood onset type	Diagnosis	ICD-9-CM
312.82	Conduct disorder, adolescent onset type	Diagnosis	ICD-9-CM
312.89	Other conduct disorder	Diagnosis	ICD-9-CM
312.9	Unspecified disturbance of conduct	Diagnosis	ICD-9-CM
	Other Psychological Disorders		
294	Persistent mental disorders due to conditions classified elsewhere	Diagnosis	ICD-9-CM
294.0	Amnestic disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM
294.1	Dementia in conditions classified elsewhere	Diagnosis	ICD-9-CM
294.10	Dementia in conditions classified elsewhere without behavioral disturbance	Diagnosis	ICD-9-CM
294.11	Dementia in conditions classified elsewhere with behavioral disturbance	Diagnosis	ICD-9-CM
294.2	Dementia, unspecified	Diagnosis	ICD-9-CM
294.20	Dementia, unspecified, without behavioral disturbance	Diagnosis	ICD-9-CM
294.21	Dementia, unspecified, with behavioral disturbance	Diagnosis	ICD-9-CM
294.8	Other persistent mental disorders due to conditions classified elsewhere	Diagnosis	ICD-9-CM
294.9	Unspecified persistent mental disorders due to conditions classified elsewhere	Diagnosis	ICD-9-CM
296.0	Bipolar I disorder, single manic episode	Diagnosis	ICD-9-CM
296.00	Bipolar I disorder, single manic episode, unspecified	Diagnosis	ICD-9-CM
296.01	Bipolar I disorder, single manic episode, mild	Diagnosis	ICD-9-CM
296.02	Bipolar I disorder, single manic episode, moderate	Diagnosis	ICD-9-CM
296.03	Bipolar I disorder, single manic episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.04	Bipolar I disorder, single manic episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.05	Bipolar I disorder, single manic episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.06	Bipolar I disorder, single manic episode, in full remission	Diagnosis	ICD-9-CM
296.1	Manic disorder, recurrent episode	Diagnosis	ICD-9-CM
296.10	Manic disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.11	Manic disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.12	Manic disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.13	Manic disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.14	Manic disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.15	Manic disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.16	Manic disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
296.4	Bipolar I disorder, most recent episode (or current) manic	Diagnosis	ICD-9-CM
296.40	Bipolar I disorder, most recent episode (or current) manic, unspecified	Diagnosis	ICD-9-CM
296.41	Bipolar I disorder, most recent episode (or current) manic, mild	Diagnosis	ICD-9-CM
296.42	Bipolar I disorder, most recent episode (or current) manic, moderate	Diagnosis	ICD-9-CM
296.43	Bipolar I disorder, most recent episode (or current) manic, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.44	Bipolar I disorder, most recent episode (or current) manic, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 56 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
296.45	Bipolar I disorder, most recent episode (or current) manic, in partial or	Diagnosis	ICD-9-CM
	unspecified remission		
296.46	Bipolar I disorder, most recent episode (or current) manic, in full remission	Diagnosis	ICD-9-CM
296.5	Bipolar I disorder, most recent episode (or current), depressed	Diagnosis	ICD-9-CM
296.50	Bipolar I disorder, most recent episode (or current) depressed, unspecified	Diagnosis	ICD-9-CM
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	Diagnosis	ICD-9-CM
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	Diagnosis	ICD-9-CM
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	Diagnosis	ICD-9-CM
296.6	Bipolar I disorder, most recent episode (or current), mixed	Diagnosis	ICD-9-CM
296.60	Bipolar I disorder, most recent episode (or current) mixed, unspecified	Diagnosis	ICD-9-CM
296.61	Bipolar I disorder, most recent episode (or current) mixed, mild	Diagnosis	ICD-9-CM
296.62	Bipolar I disorder, most recent episode (or current) mixed, moderate	Diagnosis	ICD-9-CM
296.63	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.64	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.65	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.66	Bipolar I disorder, most recent episode (or current) mixed, in full remission	Diagnosis	ICD-9-CM
296.7	Bipolar I disorder, most recent episode (or current) unspecified	Diagnosis	ICD-9-CM
296.8	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM
296.80	Bipolar disorder, unspecified	Diagnosis	ICD-9-CM
296.81	Atypical manic disorder	Diagnosis	ICD-9-CM
296.82	Atypical depressive disorder	Diagnosis	ICD-9-CM
296.89	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM
296.99	Other specified episodic mood disorder	Diagnosis	ICD-9-CM
300.3	Obsessive-compulsive disorders	Diagnosis	ICD-9-CM
300.1	Dissociative, conversion and factitious disorders	Diagnosis	ICD-9-CM
300.10	Hysteria unspecified	Diagnosis	ICD-9-CM
300.11	conversion disorder	Diagnosis	ICD-9-CM
300.12	Dissociative amnesia	Diagnosis	ICD-9-CM
300.13	Dissociative fugue	Diagnosis	ICD-9-CM
300.14	Dissociative identity disorder	Diagnosis	ICD-9-CM
300.15	Dissociative disorder or reaction, unspecified	Diagnosis	ICD-9-CM
300.16	Factitious disorder with predominantly psychological signs and symptoms	Diagnosis	ICD-9-CM
300.19	Other and unspecified factitious illness	Diagnosis	ICD-9-CM
300.5	Neurasthenia	Diagnosis	ICD-9-CM
300.6	Depersonalization disorder	Diagnosis	ICD-9-CM
300.7	Hypochondriasis	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 57 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

300.81 Somatoform disorders Diagnosis ICD-9-CM 300.81 Somatization disorder Diagnosis ICD-9-CM 300.82 Undifferentiated somatoform disorders Diagnosis ICD-9-CM 300.99 Unspecified nonpsychotic mental disorder Diagnosis ICD-9-CM 302 Sexual and gender identity disorders Diagnosis ICD-9-CM 302.1 Zoophilia Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.50 Trans-sexualism with berosexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with herosexual history Diagnosis ICD-9-CM 302.52 Trans-sexualism with herosexual history Diagnosis ICD-9-CM 302.73 Trans-sexualism with herosexual history Diagnosis ICD-9-CM 302.74 P	Code	Description	Code Type	Code Category
300.82 Undifferentiated somatoform disorders Diagnosis ICD-9-CM 300.89 Other somatoform disorders Diagnosis ICD-9-CM 300.9 Unspecified nonsychotic mental disorder Diagnosis ICD-9-CM 302.0 Ego-dystonic sexual orientation Diagnosis ICD-9-CM 302.1 Zoophilia Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.50 Trans-sexualism with asexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.53 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.70 Psychosexual dysfunction Diagnosis ICD-9-CM 302.71 Hypoactive sexual desired disorder Diagnosis ICD-9-CM 302.72 P	300.8	Somatoform disorders	Diagnosis	ICD-9-CM
300.89 Other somatoform disorders Diagnosis ICD-9-CM 300.9 Unspecified nonpsychotic mental disorder Diagnosis ICD-9-CM 302.0 Ego-dystonic sexual orientation Diagnosis ICD-9-CM 302.1 Zoophilia Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism Diagnosis ICD-9-CM 302.5.1 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.5.2 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.5.2 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.6.2 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.7.2 Prochosexual dysfunction, unspecified Diagnosis ICD-9-CM 302.7.3 Prochosexual dysfunction, unspecified Diagnosis ICD-9-CM 302.7.2	300.81	Somatization disorder	Diagnosis	ICD-9-CM
300.9 Unspecified nonpsychotic mental disorder Diagnosis ICD-9-CM 302.0 Sexual and gender identity disorders Diagnosis ICD-9-CM 302.0 Ege dystonic sexual orientation Diagnosis ICD-9-CM 302.1 Zoophilla Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.50 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.53 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.6 Gender identity disorder in children Diagnosis ICD-9-CM 302.7 Psychosexual dysfunction, unspecified Diagnosis ICD-9-CM 302.70 Psychosexual dysfunction with inhibited sexual excitement Diagnosis ICD-9-CM	300.82	Undifferentiated somatoform disorder	Diagnosis	ICD-9-CM
302 Sexual and gender identity disorders Diagnosis ICD-9-CM 302.0 Ego-dystonic sexual orientation Diagnosis ICD-9-CM 302.1 Zoophilia Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.5 Trans-sexualism Diagnosis ICD-9-CM 302.5 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.52 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.52 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.52 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.6 Gender identity disorder in children Diagnosis ICD-9-CM 302.7 Psychosexual dysfunction, unspecified Diagnosis ICD-9-CM 302.7 Psychosexual dysfunction with inhibited sexual exitement Diagnosis ICD-9-CM	300.89	Other somatoform disorders	Diagnosis	ICD-9-CM
302.0 Ego-dystonic sexual orientation Diagnosis ICD-9-CM 302.1 Zoophilia Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with bacesual history Diagnosis ICD-9-CM 302.52 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.53 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.6 Gender identity disorder in children Diagnosis ICD-9-CM 302.70 Psychosexual dysfunction, unspecified Diagnosis ICD-9-CM 302.71 Hypoactive sexual desire disorder Diagnosis ICD-9-CM 302.72 Psychosexual dysfunction with inhibited sexual excitement Diagnosis ICD-9-CM 302.73 Female orgasmic disorder Diagnosis ICD-9-CM <	300.9	Unspecified nonpsychotic mental disorder	Diagnosis	ICD-9-CM
302.1 Zophilla Diagnosis ICD-9-CM 302.2 Pedophilia Diagnosis ICD-9-CM 302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.50 Trans-sexualism with bomosexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.53 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.6 Gender identity disorder in children Diagnosis ICD-9-CM 302.7 Psychosexual dysfunction Diagnosis ICD-9-CM 302.7 Psychosexual dysfunction, unspecified Diagnosis ICD-9-CM 302.71 Psychosexual dysfunction with inhibited sexual excitement Diagnosis ICD-9-CM 302.72 Psychosexual dysfunction with inhibited sexual excitement Diagnosis ICD-9-CM 302.73 Female orgasmic disorder Diagnosis ICD-9-CM <	302	Sexual and gender identity disorders	Diagnosis	ICD-9-CM
302.2PedophiliaDiagnosisICD-9-CM302.3Transvestic fetishismDiagnosisICD-9-CM302.4ExhibitionismDiagnosisICD-9-CM302.5Trans-sexualismDiagnosisICD-9-CM302.50Trans-sexualism with unspecified sexual historyDiagnosisICD-9-CM302.51Trans-sexualism with homosexual historyDiagnosisICD-9-CM302.52Trans-sexualism with heterosexual historyDiagnosisICD-9-CM302.53Trans-sexualism with heterosexual historyDiagnosisICD-9-CM302.6Gender identity disorder in childrenDiagnosisICD-9-CM302.7Psychosexual dysfunctionDiagnosisICD-9-CM302.70Psychosexual dysfunction, unspecifiedDiagnosisICD-9-CM302.71Hypoactive sexual desire disorderDiagnosisICD-9-CM302.72Psychosexual dysfunction with inhibited sexual excitementDiagnosisICD-9-CM302.73Female orgasmic disorderDiagnosisICD-9-CM302.74Male orgasmic disorderDiagnosisICD-9-CM302.75Premature ejaculationDiagnosisICD-9-CM302.76Dyspareunia, psychogenicDiagnosisICD-9-CM302.77Psychosexual dysfunction with other specified psychosexual dsyfunctionsDiagnosisICD-9-CM302.79Psychosexual dysfunction with other specified psychosexual dsyfunctionsDiagnosisICD-9-CM302.80Other specified psychosexual disordersDiagnosisICD-9-CM <td>302.0</td> <td>Ego-dystonic sexual orientation</td> <td>Diagnosis</td> <td>ICD-9-CM</td>	302.0	Ego-dystonic sexual orientation	Diagnosis	ICD-9-CM
302.3 Transvestic fetishism Diagnosis ICD-9-CM 302.4 Exhibitionism Diagnosis ICD-9-CM 302.5 Trans-sexualism Diagnosis ICD-9-CM 302.50 Trans-sexualism with unspecified sexual history Diagnosis ICD-9-CM 302.51 Trans-sexualism with asexual history Diagnosis ICD-9-CM 302.52 Trans-sexualism with homosexual history Diagnosis ICD-9-CM 302.53 Trans-sexualism with heterosexual history Diagnosis ICD-9-CM 302.6 Gender identity disorder in children Diagnosis ICD-9-CM 302.7 Psychosexual dysfunction unspecified Diagnosis ICD-9-CM 302.71 Hypoactive sexual desire disorder Diagnosis ICD-9-CM 302.72 Psychosexual dysfunction with inhibited sexual excitement Diagnosis ICD-9-CM 302.73 Premature ejaculation Diagnosis ICD-9-CM 302.74 Male orgasmic disorder Diagnosis ICD-9-CM 302.75 Premature ejaculation Diagnosis ICD-9-CM 302.76 Dyspareunia, psychogenic Diagnosis ICD-9-CM 302.79 Psychosexual dysfunction with other specified psychosexual dsyfunctions Diagnosis ICD-9-CM	302.1	Zoophilia	Diagnosis	ICD-9-CM
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Musculoskeletal malfunction arising from mental factors Nusculoskeletal malfunction arising from mental factors Respiratory malfunction arising from mental factors Cardiovascular malfunction arising from mental factors Diagnosis ICD-9-CM Diagnosis ICD-9-CM Solicity of the street of the s	302.9	Unspecified psychosexual disorders	Diagnosis	ICD-9-CM
306.1 Respiratory malfunction arising from mental factors 306.2 Cardiovascular malfunction arising from mental factors 306.3 Skin disorder arising from mental factors 306.4 Gastrointerstinal malfunction arising from mental factors 306.5 Genitourinary malfunction arising from mental factors 306.6 Psychogenic genitourinary malfunction, unspecified 306.5 psychogenic vaginismis 306.5 psychogenic dysmenorrhea Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM	306	Physiological malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.2Cardiovascular malfunction arising from mental factorsDiagnosisICD-9-CM306.3Skin disorder arising from mental factorsDiagnosisICD-9-CM306.4Gastrointerstinal malfunction arising from mental factorsDiagnosisICD-9-CM306.5Genitourinary malfunction arising from mental factorsDiagnosisICD-9-CM306.50Psychogenic genitourinary malfunction, unspecifiedDiagnosisICD-9-CM306.51psychogenic vaginismisDiagnosisICD-9-CM306.52psychogenic dysmenorrheaDiagnosisICD-9-CM	306.0	Musculoskeletal malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.3 Skin disorder arising from mental factors 306.4 Gastrointerstinal malfunction arising from mental factors 306.5 Genitourinary malfunction arising from mental factors 306.50 Psychogenic genitourinary malfunction, unspecified 306.51 psychogenic vaginismis 306.52 psychogenic dysmenorrhea Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM	306.1	Respiratory malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.4 Gastrointerstinal malfunction arising from mental factors Diagnosis ICD-9-CM 306.5 Genitourinary malfunction arising from mental factors Diagnosis ICD-9-CM 306.50 Psychogenic genitourinary malfunction, unspecified Diagnosis ICD-9-CM 306.51 psychogenic vaginismis Diagnosis ICD-9-CM 306.52 psychogenic dysmenorrhea Diagnosis ICD-9-CM	306.2	Cardiovascular malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.5 Genitourinary malfunction arising from mental factors 306.50 Psychogenic genitourinary malfunction, unspecified Diagnosis ICD-9-CM 306.51 psychogenic vaginismis Diagnosis ICD-9-CM 306.52 psychogenic dysmenorrhea Diagnosis ICD-9-CM	306.3	Skin disorder arising from mental factors	Diagnosis	ICD-9-CM
306.50Psychogenic genitourinary malfunction, unspecifiedDiagnosisICD-9-CM306.51psychogenic vaginismisDiagnosisICD-9-CM306.52psychogenic dysmenorrheaDiagnosisICD-9-CM	306.4	Gastrointerstinal malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.51psychogenic vaginismisDiagnosisICD-9-CM306.52psychogenic dysmenorrheaDiagnosisICD-9-CM	306.5	Genitourinary malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.52 psychogenic dysmenorrhea Diagnosis ICD-9-CM	306.50	Psychogenic genitourinary malfunction, unspecified	Diagnosis	ICD-9-CM
	306.51	psychogenic vaginismis	Diagnosis	ICD-9-CM
306.53 psychogenic dysuria Diagnosis ICD-9-CM	306.52	psychogenic dysmenorrhea	Diagnosis	ICD-9-CM
	306.53	psychogenic dysuria	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 58 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
306.59	Other genitourinary malfunction arising from mental factors	Diagnosis	ICD-9-CM
306.6	Endocrine disorder arising from mental factors	Diagnosis	ICD-9-CM
306.7	Disorder of organs of special sense arising from mental factors	Diagnosis	ICD-9-CM
306.8	Other specified psychophysiological malfunction	Diagnosis	ICD-9-CM
306.9	Unspecified psychophysiological malfunction	Diagnosis	ICD-9-CM
307	Special symptoms or syndromes not elsewhere classified	Diagnosis	ICD-9-CM
307.0	Adult onset fluency disorder	Diagnosis	ICD-9-CM
307.1	Anorexia nervosa	Diagnosis	ICD-9-CM
307.2	Tics	Diagnosis	ICD-9-CM
307.20	Tic disorder, unspecified	Diagnosis	ICD-9-CM
307.21	Transient tic disorder	Diagnosis	ICD-9-CM
307.22	Chronic motor or vocal tic disorder	Diagnosis	ICD-9-CM
307.23	Tourette's disorder	Diagnosis	ICD-9-CM
307.3	Stereotypic movement disorder	Diagnosis	ICD-9-CM
307.5	Other unspecified disorder of eating	Diagnosis	ICD-9-CM
307.50	Eating disorder, unspecified	Diagnosis	ICD-9-CM
307.51	Bulimia nervosa	Diagnosis	ICD-9-CM
307.52	Pica	Diagnosis	ICD-9-CM
307.53	Rumination disorder	Diagnosis	ICD-9-CM
307.54	Psychogenic vomiting	Diagnosis	ICD-9-CM
307.59	Other disorders of eating	Diagnosis	ICD-9-CM
307.6	Enuresis	Diagnosis	ICD-9-CM
307.7	Encopresis	Diagnosis	ICD-9-CM
307.8	pain disorder related to psychological factors	Diagnosis	ICD-9-CM
307.80	psychogenic pain, site unspecified	Diagnosis	ICD-9-CM
307.81	Tension headache	Diagnosis	ICD-9-CM
307.89	Other pain disorders related to psychological factors	Diagnosis	ICD-9-CM
307.9	Other and unspecified special symptoms or syndromes, not elsewhere classified	Diagnosis	ICD-9-CM
308	Acute reaction to stress	Diagnosis	ICD-9-CM
308.0	Predominant disturbance of emotions	Diagnosis	ICD-9-CM
308.1	Predominant disturbance of consciousness	Diagnosis	ICD-9-CM
308.2	Predominant psychomotor disturbance	Diagnosis	ICD-9-CM
308.3	Other acute reactions to stress	Diagnosis	ICD-9-CM
308.4	Mixed disorders as reaction to stress	Diagnosis	ICD-9-CM
308.9	Unspecified acute reaction to stress	Diagnosis	ICD-9-CM
309.2	Adjustment reaction with predominant disturbance of other emotions	Diagnosis	ICD-9-CM
309.21	Separation anxiety disorder	Diagnosis	ICD-9-CM
309.22	Emancipation disorder of adolescence and early adult life	Diagnosis	ICD-9-CM
309.23	Specific academic or work inhibition	Diagnosis	ICD-9-CM
309.24	Adjustment disorder with anxiety	Diagnosis	ICD-9-CM
309.28	Adjustment disorder with mixed anxiety and depressed mo	Diagnosis	ICD-9-CM
309.29	Other adjustment reactions with predominant disturbance of other emotions	Diagnosis	ICD-9-CM
309.3	Adjustment disorder with disturbance of conduct	Diagnosis	ICD-9-CM
309.4	Adjustment disorder with mixed disturbance of emotions and conduct	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 59 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

309.8.1 Other specified adjustment reactions Diagnosis ICD-9-CM 309.8.1 Posttraumatic stress disorder Diagnosis ICD-9-CM 309.8.2 Adjustment reaction with physical symptoms Diagnosis ICD-9-CM 309.8.9 Other specified adjustment reactions Diagnosis ICD-9-CM 309.9 Unspecified adjustment reaction Diagnosis ICD-9-CM 310.0 Specific nonpsychotic mental disorders due to brain damage Diagnosis ICD-9-CM 310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.8 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.8.1 Pseudobulbar affect Diagnosis ICD-9-CM 310.9 Unspecified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.9 Unspecified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Other specified emotions specific to childhood and adolescence Diag	Code	Description	Code Type	Code Category
309.82 Adjustment reaction with physical symptoms Diagnosis ICD-9-CM 309.83 Adjustment reaction with withdrawal Diagnosis ICD-9-CM 309.89 Unspecified adjustment reaction Diagnosis ICD-9-CM 309.9 Unspecified adjustment reaction Diagnosis ICD-9-CM 310.0 Fortal lobe syndrome Diagnosis ICD-9-CM 310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.8 Other specified onpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.8 Other specified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 310.9 Other specified onpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Other specified on posychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.1 Miscreamental disorder of childhood and adolescence Diagnosis ICD-9-CM 313.2 Signasis disorder specific to childhood and adolesc	309.8	Other specified adjustment reactions	Diagnosis	ICD-9-CM
309.83 Adjustment reaction with withdrawal Diagnosis ICD-9-CM 309.89 Other specified adjustment reactions Diagnosis ICD-9-CM 310 Specific nonpsychotic mental disorders due to brain damage Diagnosis ICD-9-CM 310.0 Frontal lobe syndrome Diagnosis ICD-9-CM 310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.81 Pseudobulbar affect Diagnosis ICD-9-CM 310.89 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.89 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 313.0 Unspecified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 313.1 Disturbance of emotions specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Share specified nonpsychotic mental disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Share specified specific	309.81	Posttraumatic stress disorder	Diagnosis	ICD-9-CM
309.89 Other specified adjustment reactions Diagnosis ICD-9-CM 309.9 Unspecified adjustment reaction Diagnosis ICD-9-CM 310.0 Specific nonsyschotic mental disorders due to brain damage Diagnosis ICD-9-CM 310.0 Frontal lobe syndrome Diagnosis ICD-9-CM 310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.8 Other specified nonsyschotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.81 Pseudobulbar affect Diagnosis ICD-9-CM 310.9 Unspecified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 313.0 Unspecified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.1 Disturbance of emotions specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Overanious disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Spesitivity shyness and social withdrawal disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.21	309.82	Adjustment reaction with physical symptoms	Diagnosis	ICD-9-CM
309.9Unspecified adjustment reactionDiagnosisICD-9-CM310Specific nonpsychotic mental disorders due to brain damageDiagnosisICD-9-CM310.1Personality change due to conditions classified elsewhereDiagnosisICD-9-CM310.2Postconcussion syndromeDiagnosisICD-9-CM310.8Other specified nonpsychotic mental disorders following organic brain damageDiagnosisICD-9-CM310.81Pseudobulbar affectDiagnosisICD-9-CM310.9Unspecified nonpsychotic mental disorders following organic brain damageDiagnosisICD-9-CM310.9Unspecified nonpsychotic mental disorders following organic brain damageDiagnosisICD-9-CM313.0Other specified nonpsychotic mental disorders following organic brain damageDiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2.1Shyness disorder of childhoodDiagnosisICD-9-CM313.2.2Introverted disorder of childhoodDiagnosisICD-9-CM313.2.3Slective mutismDiagnosisICD-9-CM313.2.4Oppositional defiant disorderDiagnosisICD-9-CM313.3.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8.1Oppositional defiant disorderDiagnosisICD-9-CM313.8.2Identity disorder of childhoo	309.83	Adjustment reaction with withdrawal	Diagnosis	ICD-9-CM
310 Specific nonpsychotic mental disorders due to brain damage Diagnosis ICD-9-CM 310.0 Frontal lobe syndrome Diagnosis ICD-9-CM 310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.81 Pseudobulbar affect Diagnosis ICD-9-CM 310.89 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.9 Unspecified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Overanxious disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.1 Misery and unhappiness disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2.1 Shyness disorder of childhood Diagnosis ICD-9-CM 313.2.2 Senstituity shyness and social withdrawal disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2.1 Shyness disorder of childhood Diagnosis ICD-9-CM 313.2.2 Introverted disorder of childhood	309.89	Other specified adjustment reactions	Diagnosis	ICD-9-CM
310.0 Frontal lobe syndrome Diagnosis ICD-9-CM 310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.8 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.89 Other specified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Unspecified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Obsturbance of emotions specific to childhood and adolescence Diagnosis ICD-9-CM 313.1 Misery and unhappiness disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Sensitivity shyness and social withdrawal disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.21 Shyness disorder of childhood Diagnosis ICD-9-CM 313.22 Introverted disorder of childhood Diagnosis ICD-9-CM 313.33 Slective mutism Diagnosis ICD-9-CM 313.41 Shyness disorder	309.9	Unspecified adjustment reaction	Diagnosis	ICD-9-CM
310.1 Personality change due to conditions classified elsewhere Diagnosis ICD-9-CM 310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.8 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.81 Pseudobulbar affect Diagnosis ICD-9-CM 310.89 Other specified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 310.9 Unspecified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Overanxious disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.1 Misery and unhappiness disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Shyness disorder of childhood Diagnosis ICD-9-CM 313.21 Shyness disorder of childhood Diagnosis ICD-9-CM 313.23 Slective muttis Diagnosis ICD-9-CM 313.33 Relationship problems specific to childhood and adolescence Diagnosis ICD-9-CM 313.34 Other or mixed emotional disturbances of childhood or adol	310	Specific nonpsychotic mental disorders due to brain damage	Diagnosis	ICD-9-CM
310.2 Postconcussion syndrome Diagnosis ICD-9-CM 310.8 Other specified nonpsychotic mental disorders following organic brain damage Diagnosis ICD-9-CM 310.81 Pseudobulbar affect Diagnosis ICD-9-CM 310.9 Other specified nonpsychotic mental disorder following organic brain damage Diagnosis ICD-9-CM 313.0 Disturbance of emotions specific to childhood and adolescence Diagnosis ICD-9-CM 313.1 Misery and unhappiness disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Sensitivity shyness and social withdrawal disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Shestivity shyness and social withdrawal disorder specific to childhood and adolescence Diagnosis ICD-9-CM 313.2 Shyness disorder of childhood Diagnosis ICD-9-CM 313.2 Shyness disorder of childhood Diagnosis ICD-9-CM 313.3 Relationship problems specific to childhood and adolescence Diagnosis ICD-9-CM 313.8 Other or mixed emotional disturbances of childhood or adolescence Diagnosis ICD-9-CM <tr< td=""><td>310.0</td><td>Frontal lobe syndrome</td><td>Diagnosis</td><td>ICD-9-CM</td></tr<>	310.0	Frontal lobe syndrome	Diagnosis	ICD-9-CM
310.8Other specified nonpsychotic mental disorders following organic brain damageDiagnosis DiagnosisICD-9-CM310.81Pseudobulbar affectDiagnosis DiagnosisICD-9-CM310.99Unspecified nonpsychotic mental disorder following organic brain damageDiagnosis DiagnosisICD-9-CM313Disturbance of emotions specific to childhood and adolescenceDiagnosis DiagnosisICD-9-CM313.0Overanxious disorder specific to childhood and adolescenceDiagnosis DiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosis DiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2.1Shyness disorder of childhoodDiagnosisICD-9-CM313.2.2Introverted disorder of childhoodDiagnosisICD-9-CM313.3.3Slective mutismDiagnosisICD-9-CM313.3.4Opter or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.8.1Oppositional defiant disorderDiagnosisICD-9-CM313.8.2Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.8.3Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.8.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified developmentDiagnosisICD-9-CM315.0Developmental reading disorderD	310.1	Personality change due to conditions classified elsewhere	Diagnosis	ICD-9-CM
310.81Pseudobulbar affectDiagnosisICD-9-CM310.89Other specified nonpsychotic mental disorders following organic brain damageDiagnosisICD-9-CM310.9Unspecified nonpsychotic mental disorders following organic brain damageDiagnosisICD-9-CM313.0Disturbance of emotions specific to childhood and adolescenceDiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.21Shyness disorder of childhoodDiagnosisICD-9-CM313.22Introverted disorder of childhoodDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.90Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorderDiagnosisICD-9-CM<	310.2	Postconcussion syndrome	Diagnosis	ICD-9-CM
310.89Other specified nonpsychotic mental disorder following organic brain damageDiagnosisICD-9-CM310.9Unspecified nonpsychotic mental disorder following organic brain damageDiagnosisICD-9-CM313Disturbance of emotions specific to childhood and adolescenceDiagnosisICD-9-CM313.0Overanxious disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.21Shyness disorder of childhoodDiagnosisICD-9-CM313.22Introverted disorder of childhoodDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM	310.8	Other specified nonpsychotic mental disorders following organic brain damage	Diagnosis	ICD-9-CM
310.9Unspecified nonpsychotic mental disorder following organic brain damageDiagnosisICD-9-CM313Disturbance of emotions specific to childhood and adolescenceDiagnosisICD-9-CM313.0Overanxious disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2.1Shyness disorder of childhoodDiagnosisICD-9-CM313.2.2Introverted disorder of childhoodDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8.1Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.8.2Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.8.3Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.8.9Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.0Developmental dyslexiaDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other sp	310.81	Pseudobulbar affect	Diagnosis	ICD-9-CM
313Disturbance of emotions specific to childhood and adolescenceDiagnosisICD-9-CM313.0Overanxious disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.21Shyness disorder of childhoodDiagnosisICD-9-CM313.22Introverted disorder of childhoodDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM315.0Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.03Other specific developmental learning difficultiesDiagnosisICD-9-C	310.89	Other specified nonpsychotic mental disorders following organic brain damage	Diagnosis	ICD-9-CM
313.0Overanxious disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.21Shyness disorder of childhoodDiagnosisICD-9-CM313.22Introverted disorder of childhoodDiagnosisICD-9-CM313.23Slective mutismDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.81Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315.0Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental dyslexiaDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental l	310.9	Unspecified nonpsychotic mental disorder following organic brain damage	Diagnosis	ICD-9-CM
313.1Misery and unhappiness disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.2Sensitivity shyness and social withdrawal disorder specific to childhood and adolescenceDiagnosisICD-9-CM313.21Shyness disorder of childhoodDiagnosisICD-9-CM313.22Introverted disorder of childhoodDiagnosisICD-9-CM313.23Slective mutismDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecificed emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorderDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.3Expressive language disorderDi	313	Disturbance of emotions specific to childhood and adolescence	Diagnosis	ICD-9-CM
Sensitivity shyness and social withdrawal disorder specific to childhood and adolescence Diagnosis ICD-9-CM	313.0	Overanxious disorder specific to childhood and adolescence	Diagnosis	ICD-9-CM
adolescence 313.21 Shyness disorder of childhood Diagnosis ICD-9-CM 313.22 Introverted disorder of childhood Diagnosis ICD-9-CM 313.23 Slective mutism Diagnosis ICD-9-CM 313.3 Slective mutism Diagnosis ICD-9-CM 313.3 Relationship problems specific to childhood and adolescence Diagnosis ICD-9-CM 313.8 Other or mixed emotional disturbances of childhood or adolescence Diagnosis ICD-9-CM 313.81 Oppositional defiant disorder Diagnosis ICD-9-CM 313.82 Identity disorder of childhood or adolescence Diagnosis ICD-9-CM 313.83 Academic underachievement disorder of childhood or adolescence Diagnosis ICD-9-CM 313.89 Other emotional disturbances of childhood or adolescence Diagnosis ICD-9-CM 313.9 Unspecified emotional disturbance of childhood or adolescence Diagnosis ICD-9-CM 315.0 Specific delays in development 315.0 Developmental reading disorder Diagnosis ICD-9-CM 315.0 Developmental reading disorder Diagnosis ICD-9-CM 315.0 Developmental reading disorder, unspecified Diagnosis ICD-9-CM 315.0 Developmental dyslexia Diagnosis ICD-9-CM 315.1 Mathematics disorder Diagnosis ICD-9-CM 315.2 Other specific developmental learning difficulties Diagnosis ICD-9-CM 315.3 Developmental speech or language disorder Diagnosis ICD-9-CM 315.3 Developmental speech or language disorder Diagnosis ICD-9-CM 315.3 Spech and language developmental delay due to hearing loss Diagnosis ICD-9-CM 315.3 Other developmental speech or language disorder Diagnosis ICD-9-CM 315.3 Other developmental speech or language disorder Diagnosis ICD-9-CM 315.3 Other developmental speech or language disorder Diagnosis ICD-9-CM 315.3 Developmental speech or language disorder Diagnosis ICD-9-CM 315.3 Other developmental speech or language disorder Diagnosis ICD-9-CM	313.1	Misery and unhappiness disorder specific to childhood and adolescence	Diagnosis	ICD-9-CM
313.22Introverted disorder of childhoodDiagnosisICD-9-CM313.23Slective mutismDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM315.0Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315	313.2		Diagnosis	ICD-9-CM
313.23Slective mutismDiagnosisICD-9-CM313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315.0Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315	313.21	Shyness disorder of childhood	Diagnosis	ICD-9-CM
313.3Relationship problems specific to childhood and adolescenceDiagnosisICD-9-CM313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM315.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosis<	313.22	Introverted disorder of childhood	Diagnosis	ICD-9-CM
313.8Other or mixed emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315Specific delays in developmentDiagnosisICD-9-CM315.00Developmental reading disorderDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	313.23	Slective mutism	Diagnosis	ICD-9-CM
313.81Oppositional defiant disorderDiagnosisICD-9-CM313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM <td>313.3</td> <td>Relationship problems specific to childhood and adolescence</td> <td>Diagnosis</td> <td>ICD-9-CM</td>	313.3	Relationship problems specific to childhood and adolescence	Diagnosis	ICD-9-CM
313.82Identity disorder of childhood or adolescenceDiagnosisICD-9-CM313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.03Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	313.8	Other or mixed emotional disturbances of childhood or adolescence	Diagnosis	ICD-9-CM
313.83Academic underachievement disorder of childhood or adolescenceDiagnosisICD-9-CM313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315Specific delays in developmentDiagnosisICD-9-CM315.00Developmental reading disorderDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	313.81	Oppositional defiant disorder	Diagnosis	ICD-9-CM
313.89Other emotional disturbances of childhood or adolescenceDiagnosisICD-9-CM313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	313.82	Identity disorder of childhood or adolescence	Diagnosis	ICD-9-CM
313.9Unspecified emotional disturbance of childhood or adolescenceDiagnosisICD-9-CM315Specific delays in developmentDiagnosisICD-9-CM315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	313.83	Academic underachievement disorder of childhood or adolescence	Diagnosis	ICD-9-CM
Specific delays in development 315.0 Developmental reading disorder 315.00 Developmental reading disorder, unspecified 315.01 Alexia Diagnosis ICD-9-CM 315.02 Developmental dyslexia Diagnosis ICD-9-CM 315.09 Other specific developmental reading disorder 315.1 Mathematics disorder Diagnosis ICD-9-CM 315.2 Other specific developmental learning difficulties Diagnosis ICD-9-CM 315.3 Developmental speech or language disorder Diagnosis ICD-9-CM 315.31 Expressive language disorder Diagnosis ICD-9-CM 315.32 Mixed receptive-expressive language disorder Diagnosis ICD-9-CM 315.34 Speech and language developmental delay due to hearing loss Diagnosis ICD-9-CM 315.35 Childhood onset fluency disorder Diagnosis ICD-9-CM 315.39 Other developmental speech or language disorder 315.4 Developmental coordination disorder Diagnosis ICD-9-CM 315.4 Developmental coordination disorder	313.89	Other emotional disturbances of childhood or adolescence	Diagnosis	ICD-9-CM
315.0Developmental reading disorderDiagnosisICD-9-CM315.00Developmental reading disorder, unspecifiedDiagnosisICD-9-CM315.01AlexiaDiagnosisICD-9-CM315.02Developmental dyslexiaDiagnosisICD-9-CM315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	313.9	Unspecified emotional disturbance of childhood or adolescence	Diagnosis	ICD-9-CM
Developmental reading disorder, unspecified Diagnosis ICD-9-CM Alexia Diagnosis ICD-9-CM	315	Specific delays in development	Diagnosis	ICD-9-CM
Alexia Diagnosis ICD-9-CM 315.02 Developmental dyslexia Diagnosis ICD-9-CM 315.09 Other specific developmental reading disorder Diagnosis ICD-9-CM 315.1 Mathematics disorder Diagnosis ICD-9-CM 315.2 Other specific developmental learning difficulties Diagnosis ICD-9-CM 315.3 Developmental speech or language disorder Diagnosis ICD-9-CM 315.31 Expressive language disorder Diagnosis ICD-9-CM 315.32 Mixed receptive-expressive language disorder Diagnosis ICD-9-CM 315.34 Speech and language developmental delay due to hearing loss Diagnosis ICD-9-CM 315.35 Childhood onset fluency disorder Diagnosis ICD-9-CM 315.39 Other developmental speech or language disorder Diagnosis ICD-9-CM 315.4 Developmental coordination disorder Diagnosis ICD-9-CM	315.0	Developmental reading disorder	Diagnosis	ICD-9-CM
Diagnosis ICD-9-CM 315.09 Other specific developmental reading disorder 315.1 Mathematics disorder 315.2 Other specific developmental learning difficulties 315.3 Developmental speech or language disorder 315.31 Expressive language disorder 315.32 Mixed receptive-expressive language disorder 315.34 Speech and language developmental delay due to hearing loss 315.35 Childhood onset fluency disorder 315.36 Other developmental speech or language disorder 315.37 Diagnosis ICD-9-CM 315.38 Diagnosis ICD-9-CM 315.39 Other developmental speech or language disorder 315.4 Developmental coordination disorder Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM	315.00	Developmental reading disorder, unspecified	Diagnosis	ICD-9-CM
315.09Other specific developmental reading disorderDiagnosisICD-9-CM315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.01	Alexia	Diagnosis	ICD-9-CM
315.1Mathematics disorderDiagnosisICD-9-CM315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.02	Developmental dyslexia	Diagnosis	ICD-9-CM
315.2Other specific developmental learning difficultiesDiagnosisICD-9-CM315.3Developmental speech or language disorderDiagnosisICD-9-CM315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.09	Other specific developmental reading disorder	Diagnosis	ICD-9-CM
Diagnosis ICD-9-CM S15.31 Expressive language disorder Diagnosis ICD-9-CM Mixed receptive-expressive language disorder Diagnosis ICD-9-CM S15.32 Mixed receptive-expressive language disorder Diagnosis ICD-9-CM S15.34 Speech and language developmental delay due to hearing loss Diagnosis ICD-9-CM S15.35 Childhood onset fluency disorder Diagnosis ICD-9-CM S15.39 Other developmental speech or language disorder Diagnosis ICD-9-CM Developmental coordination disorder Diagnosis ICD-9-CM	315.1	Mathematics disorder	Diagnosis	ICD-9-CM
315.31Expressive language disorderDiagnosisICD-9-CM315.32Mixed receptive-expressive language disorderDiagnosisICD-9-CM315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.2	Other specific developmental learning difficulties	Diagnosis	ICD-9-CM
Mixed receptive-expressive language disorder Diagnosis ICD-9-CM Speech and language developmental delay due to hearing loss Childhood onset fluency disorder Diagnosis ICD-9-CM Diagnosis ICD-9-CM Other developmental speech or language disorder Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM Diagnosis ICD-9-CM	315.3	Developmental speech or language disorder	Diagnosis	ICD-9-CM
315.34Speech and language developmental delay due to hearing lossDiagnosisICD-9-CM315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.31	Expressive language disorder	Diagnosis	ICD-9-CM
315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.32	Mixed receptive-expressive language disorder	Diagnosis	ICD-9-CM
315.35Childhood onset fluency disorderDiagnosisICD-9-CM315.39Other developmental speech or language disorderDiagnosisICD-9-CM315.4Developmental coordination disorderDiagnosisICD-9-CM	315.34		Diagnosis	ICD-9-CM
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315.4 Developmental coordination disorder Diagnosis ICD-9-CM		·		ICD-9-CM
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	315.5	·	=	ICD-9-CM

cder_mpl2p_wp020 Page 60 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
315.8	Other specified delays in development	Diagnosis	ICD-9-CM
315.9	Unspecified delay in development	Diagnosis	ICD-9-CM
316	Psychic factors associated with diseases classified elsewhere	Diagnosis	ICD-9-CM
301	Personality disorders	Diagnosis	ICD-9-CM
301.0	Paranoid personality disorder	Diagnosis	ICD-9-CM
301.1	Affective personality disorder	Diagnosis	ICD-9-CM
301.10	Affective personality disorder, unspecified	Diagnosis	ICD-9-CM
301.11	Chronic hypomanic personality disorder	Diagnosis	ICD-9-CM
301.12	Chronic depressive personality disorder	Diagnosis	ICD-9-CM
301.13	Cyclothymic disorder	Diagnosis	ICD-9-CM
301.2	Schizoid personality disorder	Diagnosis	ICD-9-CM
301.20	Schizoid personality disorder, unspecified	Diagnosis	ICD-9-CM
301.21	Introverted personality	Diagnosis	ICD-9-CM
301.22	Schizotypal personality disorder	Diagnosis	ICD-9-CM
301.3	Explosive personality disorder	Diagnosis	ICD-9-CM
301.4	Obsessive-compulsive personality disorder	Diagnosis	ICD-9-CM
301.5	Histrionic personality disorder	Diagnosis	ICD-9-CM
301.50	Histrionic personality disorder, unspecified	Diagnosis	ICD-9-CM
301.51	Chronic factitious illness with physical symptoms	Diagnosis	ICD-9-CM
301.59	Other histrionic personality disorder	Diagnosis	ICD-9-CM
301.6	Dependent personality disorder	Diagnosis	ICD-9-CM
301.7	Antisocial personality disorder	Diagnosis	ICD-9-CM
301.8	Other personality disorders	Diagnosis	ICD-9-CM
301.81	Narcissistic personality disorder	Diagnosis	ICD-9-CM
301.82	Avoidant personality disorder	Diagnosis	ICD-9-CM
301.83	Borderline personality disorder	Diagnosis	ICD-9-CM
301.84	Passive-aggressive personality	Diagnosis	ICD-9-CM
301.89	Other personality disorders	Diagnosis	ICD-9-CM
301.9	Unspecified personality disorder	Diagnosis	ICD-9-CM
299	Pervasive developmental disorders	Diagnosis	ICD-9-CM
299.0	Autistic disorder	Diagnosis	ICD-9-CM
299.00	Autistic disorder, current or active state	Diagnosis	ICD-9-CM
299.01	Autistic disorder, residual state	Diagnosis	ICD-9-CM
299.1	Childhood disintegrative disorder	Diagnosis	ICD-9-CM
299.10	Childhood disintegrative disorder, current or active state	Diagnosis	ICD-9-CM
299.11	Childhood disintegrative disorder, residual state	Diagnosis	ICD-9-CM
299.8	Other specified pervasive developmental disorders	Diagnosis	ICD-9-CM
299.80	Other specified pervasive developmental disorders, current or active state	Diagnosis	ICD-9-CM
299.81	Other specified pervasive developmental disorders, residual state	Diagnosis	ICD-9-CM
299.9	Unspecified pervasive developmental disorder	Diagnosis	ICD-9-CM
299.90	Unspecified pervasive developmental disorder, current or active state	Diagnosis	ICD-9-CM
299.91	Unspecified pervasive developmental disorder, residual state	Diagnosis	ICD-9-CM
309.81	Posttraumatic stress disorder	Diagnosis	ICD-9-CM
625.4	Premenstrual tension syndromes	Diagnosis	ICD-9-CM
290.8	Other specified senile psychotic conditions	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 61 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
290.9	Unspecified senile psychotic condition	Diagnosis	ICD-9-CM
297	Delusional disorders	Diagnosis	ICD-9-CM
297.0	Paranoid state, simple	Diagnosis	ICD-9-CM
297.1	Delusional disorders	Diagnosis	ICD-9-CM
297.2	Paraphrenia	Diagnosis	ICD-9-CM
297.3	Shared psychotic disorder	Diagnosis	ICD-9-CM
297.8	Other specified paranoid states	Diagnosis	ICD-9-CM
297.9	unspecified paranoid state	Diagnosis	ICD-9-CM
298	Other nonorganic psychosis	Diagnosis	ICD-9-CM
298.0	Depressive type psychosis	Diagnosis	ICD-9-CM
298.1	Excitative type psychosis	Diagnosis	ICD-9-CM
298.2	Reactive confusion	Diagnosis	ICD-9-CM
298.3	Acute paranoid reaction	Diagnosis	ICD-9-CM
298.4	Psychogenic paranoid psychosis	Diagnosis	ICD-9-CM
298.8	Other and unspecified reactive psychosis	Diagnosis	ICD-9-CM
298.9	Unspecified psychosis	Diagnosis	ICD-9-CM
295	Schizophrenic disorders	Diagnosis	ICD-9-CM
295.0	Simple type schizophrenia	Diagnosis	ICD-9-CM
295.00	Simple schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.01	Simple schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.02	Simple schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.03	Simple schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.04	Simple schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.05	Simple schizophrenia, in remission	Diagnosis	ICD-9-CM
295.1	Disorganized type schizophrenia	Diagnosis	ICD-9-CM
295.10	Disorganized schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.11	Disorganized schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.12	Disorganized schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.13	Disorganized schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.14	Disorganized schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.15	Disorganized schizophrenia, in remission	Diagnosis	ICD-9-CM
295.2	Catatonic type schizophrenia	Diagnosis	ICD-9-CM
295.20	Catatonic schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.21	Catatonic schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.22	Catatonic schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.23	Catatonic schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.24	Catatonic schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.25	Catatonic schizophrenia, in remission	Diagnosis	ICD-9-CM
295.3	Paranoid type schizophrenia	Diagnosis	ICD-9-CM
295.30	Paranoid schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.31	Paranoid schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.32	Paranoid schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.33	Paranoid schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.34	Paranoid schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.35	Paranoid schizophrenia, in remission	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 62 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
295.4	Schizophreniform disorder	Diagnosis	ICD-9-CM
295.40	Schizophreniform disorder, unspecified	Diagnosis	ICD-9-CM
295.41	Schizophreniform disorder, subchronic	Diagnosis	ICD-9-CM
295.42	Schizophreniform disorder, chronic	Diagnosis	ICD-9-CM
295.43	Schizophreniform disorder, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.44	Schizophreniform disorder, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.45	Schizophreniform disorder, in remission	Diagnosis	ICD-9-CM
295.5	Latent schizophrenia	Diagnosis	ICD-9-CM
295.50	Latent schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.51	Latent schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.52	Latent schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.53	Latent schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.54	Latent schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.55	Latent schizophrenia, in remission	Diagnosis	ICD-9-CM
295.6	Schizophrenic disorders, residual type	Diagnosis	ICD-9-CM
295.60	Schizophrenic disorders, residual type, unspecified	Diagnosis	ICD-9-CM
295.61	Schizophrenic disorders, residual type, subchronic	Diagnosis	ICD-9-CM
295.62	Schizophrenic disorders, residual type, chronic	Diagnosis	ICD-9-CM
295.63	Schizophrenic disorders, residual type, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.64	Schizophrenic disorders, residual type, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.65	Schizophrenic disorders, residual type, in remission	Diagnosis	ICD-9-CM
295.7	Schizoaffective disorder	Diagnosis	ICD-9-CM
295.70	Schizoaffective disorder, unspecified	Diagnosis	ICD-9-CM
295.71	Schizoaffective disorder, subchronic	Diagnosis	ICD-9-CM
295.72	Schizoaffective disorder, chronic	Diagnosis	ICD-9-CM
295.73	Schizoaffective disorder, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.74	Schizoaffective disorder, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.75	Schizoaffective disorder, in remission	Diagnosis	ICD-9-CM
295.8	Other specified types of schizophrenia	Diagnosis	ICD-9-CM
295.80	Other specified types of schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.81	Other specified types of schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.82	Other specified types of schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.83	Other specified types of schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.84	Other specified types of schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.85	Other specified types of schizophrenia, in remission	Diagnosis	ICD-9-CM
295.9	Unspecified schizophrenia	Diagnosis	ICD-9-CM
295.90	Unspecified schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.91	Unspecified schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.92	Unspecified schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.93	Unspecified schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.94	Unspecified schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
		Diagnosis	

cder_mpl2p_wp020 Page 63 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type Code		
Sleep Disorder				
307.4	Specific disorders of sleep of nonorganic origin	Diagnosis	ICD-9-CM	
307.40	Nonorganic sleep disorder, unspecified	Diagnosis	ICD-9-CM	
307.41	Transient disorder of initiating or maintaining sleep	Diagnosis	ICD-9-CM	
307.42	Persistent disorder of initiating or maintaining sleep	Diagnosis	ICD-9-CM	
307.43	Transient disorder of initiating or maintaining wakefulness	Diagnosis	ICD-9-CM	
307.44	Persistent disorder of initiating or maintaining wakefulness	Diagnosis	ICD-9-CM	
307.45	Circadian rhythm sleep disorder of nonorganic origin	Diagnosis	ICD-9-CM	
307.46	Sleep arousal disorder	Diagnosis	ICD-9-CM	
307.47	Other dysfunctions of sleep stages or arousal from sleep	Diagnosis	ICD-9-CM	
307.48	Repetitive intrusions of sleep	Diagnosis	ICD-9-CM	
307.49	Other specific disorders of sleep of nonorganic origin	Diagnosis	ICD-9-CM	
347	Cataplexy and narcolepsy	Diagnosis	ICD-9-CM	
347.0	Narcolepsy	Diagnosis	ICD-9-CM	
347.00	Narcolepsy, without cataplexy	Diagnosis	ICD-9-CM	
347.01	Narcolepsy, with cataplexy	Diagnosis	ICD-9-CM	
347.1	Narcolepsy in conditions classified elsewhere	Diagnosis	ICD-9-CM	
347.10	Narcolepsy in conditions classified elsewhere, without cataplexy	Diagnosis	ICD-9-CM	
347.11	Narcolepsy in conditions classified elsewhere, with cataplexy	Diagnosis	ICD-9-CM	
780.5	Sleep disturbances	Diagnosis	ICD-9-CM	
780.50	Sleep disturbances, unspecified	Diagnosis	ICD-9-CM	
780.51	Insomnia with sleep apnea, unspecified	Diagnosis	ICD-9-CM	
780.52	Insomnia, unspecified	Diagnosis	ICD-9-CM	
780.53	Hypersomnia, with sleep apnea, unspecified	Diagnosis	ICD-9-CM	
780.54	Hypersomnia, unspecified	Diagnosis	ICD-9-CM	
780.55	Disruption of 24 hour sleep wake cycle, unspecified	Diagnosis	ICD-9-CM	
780.56	Dysfunctions associated with sleep stages or arousal from sleep	Diagnosis	ICD-9-CM	
780.57	Unspecified sleep apnea	Diagnosis	ICD-9-CM	
780.58	Sleep related movement disorder, unspecified	Diagnosis	ICD-9-CM	
780.59	Other sleep disturbances	Diagnosis	ICD-9-CM	
	Substance Abuse Disorders			
291.0	Alcohol withdrawal delirium	Diagnosis	ICD-9-CM	
291.1	Alcohol-induced persisting amnestic disorder	Diagnosis	ICD-9-CM	
291.2	Alcohol-induced persisting dementia	Diagnosis	ICD-9-CM	
291.3	Alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-9-CM	
291.4	Idiosyncratic alcohol intoxication	Diagnosis	ICD-9-CM	
291.5	Alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-9-CM	
291.8	Other specified alcohol-induced mental disorders	Diagnosis	ICD-9-CM	
291.81	Alcohol withdrawal	Diagnosis	ICD-9-CM	
291.82	Alcohol induced sleep disorders	Diagnosis	ICD-9-CM	
291.89	Other specified alcohol-induced mental disorders	Diagnosis	ICD-9-CM	
291.9	Unspecified alcohol-induced mental disorders	Diagnosis	ICD-9-CM	
292.0	Drug withdrawal	Diagnosis	ICD-9-CM	
292.1	Drug-induced psychotic disorder	Diagnosis	ICD-9-CM	
292.11	Drug-induced psychotic disorder with delusions	Diagnosis	ICD-9-CM	

cder_mpl2p_wp020 Page 64 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
292.12	Drug-induced psychotic disorder with hallucinations	Diagnosis	ICD-9-CM
292.2	Pathological drug intoxication	Diagnosis	ICD-9-CM
292.8	Other specified drug-induced mental disorders	Diagnosis	ICD-9-CM
292.89	Other specified drug-induced mental disorder	Diagnosis	ICD-9-CM
292.9	Unspecified drug-induced mental disorder	Diagnosis	ICD-9-CM
303.0	Acute alcoholic intoxication	Diagnosis	ICD-9-CM
303.00	Acute alcoholic intoxication, unspecified	Diagnosis	ICD-9-CM
303.01	Acute alcoholic intoxication, continuous	Diagnosis	ICD-9-CM
303.02	Acute alcoholic intoxication, episodic	Diagnosis	ICD-9-CM
303.03	Acute alcoholic intoxication, in remission	Diagnosis	ICD-9-CM
303.9	Other and unspecified alcohol dependence	Diagnosis	ICD-9-CM
303.90	Other and unspecified alcohol dependence, unspecified	Diagnosis	ICD-9-CM
303.91	Other and unspecified alcohol dependence, continuous	Diagnosis	ICD-9-CM
303.92	Other and unspecified alcohol dependence, episodic	Diagnosis	ICD-9-CM
303.93	Other and unspecified alcohol dependence, in remission	Diagnosis	ICD-9-CM
304.0	Opioid type dependence	Diagnosis	ICD-9-CM
304.00	Opioid type dependence, unspecified	Diagnosis	ICD-9-CM
304.01	Opioid type dependence, continuous	Diagnosis	ICD-9-CM
304.02	Opioid type dependence, episodic	Diagnosis	ICD-9-CM
304.03	Opioid type dependence, in remission	Diagnosis	ICD-9-CM
304.1	Sedative, hypnotic or anxiolytic dependence	Diagnosis	ICD-9-CM
304.10	Sedative, hypnotic or anxiolytic dependence, unspecified	Diagnosis	ICD-9-CM
304.11	Sedative, hypnotic or anxiolytic dependence, continuous	Diagnosis	ICD-9-CM
304.12	Sedative, hypnotic or anxiolytic dependence, episodic	Diagnosis	ICD-9-CM
304.13	Sedative, hypnotic or anxiolytic dependence, in remission	Diagnosis	ICD-9-CM
304.2	Cocaine dependence	Diagnosis	ICD-9-CM
304.20	Cocaine dependence, unspecified	Diagnosis	ICD-9-CM
304.21	Cocaine dependence, continuous	Diagnosis	ICD-9-CM
304.22	Cocaine dependence, episodic	Diagnosis	ICD-9-CM
304.23	Cocaine dependence, in remission	Diagnosis	ICD-9-CM
304.3	Cannabis dependence	Diagnosis	ICD-9-CM
304.30	Cannabis dependence, unspecified	Diagnosis	ICD-9-CM
304.31	Cannabis dependence, continuous	Diagnosis	ICD-9-CM
304.32	Cannabis dependence, episodic	Diagnosis	ICD-9-CM
304.33	Cannabis dependence, in remission	Diagnosis	ICD-9-CM
304.4	Amphetamine and other psychostimulant dependence	Diagnosis	ICD-9-CM
304.40	Amphetamine and other psychostimulant dependence, unspecified	Diagnosis	ICD-9-CM
304.41	Amphetamine and other psychostimulant dependence, continuous	Diagnosis	ICD-9-CM
304.42	Amphetamine and other psychostimulant dependence, episodic	Diagnosis	ICD-9-CM
304.43	Amphetamine and other psychostimulant dependence, in remission	Diagnosis	ICD-9-CM
304.5	Hallucinogen dependence	Diagnosis	ICD-9-CM
304.50	Hallucinogen dependence, unspecified	Diagnosis	ICD-9-CM
304.51	Hallucinogen dependence, continuous	Diagnosis	ICD-9-CM
304.52	Hallucinogen dependence, episodic	Diagnosis	ICD-9-CM
304.53	Hallucinogen dependence, in remission	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 65 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
304.6	Other specified drug dependence	Diagnosis	ICD-9-CM
304.60	Other specified drug dependence, unspecified	Diagnosis	ICD-9-CM
304.61	Other specified drug dependence, continuous	Diagnosis	ICD-9-CM
304.62	Other specified drug dependence, episodic	Diagnosis	ICD-9-CM
304.63	Other specified drug dependence, in remission	Diagnosis	ICD-9-CM
304.7	Combinations of opioid type drug with any other drug dependence	Diagnosis	ICD-9-CM
304.70	Combinations of opioid type drug with any other drug dependence, unspecified	Diagnosis	ICD-9-CM
304.71	Combinations of opioid type drug with any other drug dependence, continuous	Diagnosis	ICD-9-CM
304.72	Combinations of opioid type drug with any other drug dependence, episodic	Diagnosis	ICD-9-CM
304.73	Combinations of opioid type drug with any other drug dependence, in remission	Diagnosis	ICD-9-CM
304.8	Combinations of drug dependence excluding opioid type drug	Diagnosis	ICD-9-CM
304.80	Combinations of drug dependence excluding opioid type drug, unspecified	Diagnosis	ICD-9-CM
304.81	Combinations of drug dependence excluding opioid type drug, continuous	Diagnosis	ICD-9-CM
304.82	Combinations of drug dependence excluding opioid type drug, episodic	Diagnosis	ICD-9-CM
304.83	Combinations of drug dependence excluding opioid type drug, in remission	Diagnosis	ICD-9-CM
304.9	Unspecified drug dependence	Diagnosis	ICD-9-CM
304.90	Unspecified drug dependence, unspecified	Diagnosis	ICD-9-CM
304.91	Unspecified drug dependence, continuous	Diagnosis	ICD-9-CM
304.92	Unspecified drug dependence, episodic	Diagnosis	ICD-9-CM
304.93	Unspecified drug dependence, in remission	Diagnosis	ICD-9-CM
305.0	Nondependent alcohol abuse	Diagnosis	ICD-9-CM
305.00	Nondependent alcohol abuse, unspecified	Diagnosis	ICD-9-CM
305.01	Nondependent alcohol abuse, continuous	Diagnosis	ICD-9-CM
305.02	Nondependent alcohol abuse, episodic	Diagnosis	ICD-9-CM
305.03	Nondependent alcohol abuse, in remission	Diagnosis	ICD-9-CM
305.2	Nondependent cannabis abuse	Diagnosis	ICD-9-CM
305.20	Nondependent cannabis abuse, unspecified	Diagnosis	ICD-9-CM
305.21	Nondependent cannabis abuse, continuous	Diagnosis	ICD-9-CM
305.22	Nondependent cannabis abuse, episodic	Diagnosis	ICD-9-CM
305.23	Nondependent cannabis abuse, in remission	Diagnosis	ICD-9-CM
305.3	Nondependent hallucinogen abuse	Diagnosis	ICD-9-CM
305.30	Nondependent hallucinogen abuse, unspecified	Diagnosis	ICD-9-CM
305.31	Nondependent hallucinogen abuse, continuous	Diagnosis	ICD-9-CM
305.32	Nondependent hallucinogen abuse, episodic	Diagnosis	ICD-9-CM
305.33	Nondependent hallucinogen abuse, in remission	Diagnosis	ICD-9-CM
305.4	Nondependent sedative, hypnotic or anxiolytic abuse	Diagnosis	ICD-9-CM
305.40	Nondependent sedative, hypnotic or anxiolytic abuse, unspecified	Diagnosis	ICD-9-CM
305.41	Nondependent sedative hypnotic or anxiolytic abuse, continuous	Diagnosis	ICD-9-CM
305.42	Nondependent sedative, hypnotic or anxiolytic abuse, episodic	Diagnosis	ICD-9-CM
305.43	Nondependent sedative, hypnotic or anxiolytic abuse, in remission	Diagnosis	ICD-9-CM
305.5	Nondependent opioid abuse	Diagnosis	ICD-9-CM
305.50	Nondependent opioid abuse, unspecified	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 66 of 79



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Covariates in this Request

Code	Description	Code Type	Code Category
305.51	Nondependent opioid abuse, continuous	Diagnosis	ICD-9-CM
305.52	Nondependent opioid abuse, episodic	Diagnosis	ICD-9-CM
305.53	Nondependent opioid abuse, in remission	Diagnosis	ICD-9-CM
305.6	Nondependent cocaine abuse	Diagnosis	ICD-9-CM
305.60	Nondependent cocaine abuse, unspecified	Diagnosis	ICD-9-CM
305.61	Nondependent cocaine abuse, continuous	Diagnosis	ICD-9-CM
305.62	Nondependent cocaine abuse, episodic	Diagnosis	ICD-9-CM
305.63	Nondependent cocaine abuse, in remission	Diagnosis	ICD-9-CM
305.7	Nondependent amphetamine or related acting sympathomimetic abuse	Diagnosis	ICD-9-CM
305.70	Nondependent amphetamine or related acting sympathomimetic abuse, unspecified	Diagnosis	ICD-9-CM
305.71	Nondependent amphetamine or related acting sympathomimetic abuse, continuous	Diagnosis	ICD-9-CM
305.72	Nondependent amphetamine or related acting sympathomimetic abuse, episodic	Diagnosis	ICD-9-CM
305.73	Nondependent amphetamine or related acting sympathomimetic abuse, in remission	Diagnosis	ICD-9-CM
305.8	Nondependent antidepressant type abuse	Diagnosis	ICD-9-CM
305.80	Nondependent antidepressant type abuse, unspecified	Diagnosis	ICD-9-CM
305.81	Nondependent antidepressant type abuse, continuous	Diagnosis	ICD-9-CM
305.82	Nondependent antidepressant type abuse, episodic	Diagnosis	ICD-9-CM
305.83	Nondependent antidepressant type abuse, in remission	Diagnosis	ICD-9-CM
305.9	Other, mixed, or unspecified nondependent drug abuse	Diagnosis	ICD-9-CM
305.90	Other, mixed, or unspecified nondependent drug abuse, unspecified	Diagnosis	ICD-9-CM
305.91	Other, mixed, or unspecified nondependent drug abuse, continuous	Diagnosis	ICD-9-CM
305.92	Other, mixed, or unspecified nondependent drug abuse, episodic	Diagnosis	ICD-9-CM
305.93	Other, mixed, or unspecified nondependent drug abuse, in remission	Diagnosis	ICD-9-CM

cder_mpl2p_wp020 Page 67 of 79



Generic Name Brand Name

Analgesic Opiates

acetaminophen with codeine phosphate

Acetaminophen-Codeine
acetaminophen with codeine phosphate

Capital with Codeine

acetaminophen with codeine phosphate Cocet
acetaminophen with codeine phosphate Cocet Plus

acetaminophen with codeine phosphate Tylenol-Codeine #3 acetaminophen with codeine phosphate Tylenol-Codeine #4

acetaminophen with codeine phosphate Vopac

aspirin/codeine phosphate
aspirin/codeine phosphate
aspirin/codeine phosphate
aspirin/codeine phosphate
buprenorphine
Aspirin-Codeine #4
Buprenorphine

buprenorphineButransbuprenorphine HClBelbucabuprenorphine HCl/naloxone HClBunavail

butalbital/acetaminophen/caffeine/codeine phosphate Butalbital-Acetaminop-Caf-Cod

butalbital/acetaminophen/caffeine/codeine phosphate Fioricet with Codeine

butalbital/acetaminophen/caffeine/codeine phosphate Carisoprodol/aspirin/codeine phosphate Carisoprodol/aspirin/codeine phosphate Carisoprodol-ASA-Codeine Carisoprodol/aspirin/codeine phosphate Carisoprodol-ASA-Codeine Carisoprodol/aspirin/codeine phosphate Carisoprodol-ASA-Codeine Carisoprodol-Carisoprod

codeine phosphate Codeine Phosphate

codeine phosphate Codeine Phosphate Soluble codeine phosphate/butalbital/aspirin/caffeine Ascomp with Codeine

codeine phosphate/butalbital/aspirin/caffeine Butalbital Compound W/Codeine codeine phosphate/butalbital/aspirin/caffeine Butalbital Compound-Codeine codeine phosphate/butalbital/aspirin/caffeine Codeine-Butalbital-ASA-Caff

codeine phosphate/butalbital/aspirin/caffeine Fiorinal-Codeine #3
codeine sulfate Codeine Sulfate

fentanyl citrate Abstral fentanyl citrate Actiq

fentanyl citrate Fentanyl Citrate

fentanyl citrate Fentora fentanyl citrate Lazanda fentanyl citrate Onsolis

fentanyl citrate in 0.9 % sodium chloride/PF Fentanyl Citrate (PF)-0.9%NaCl fentanyl citrate in dextrose 5% in water/PF Fentanyl Citrate in D5W (PF) fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF Fentanyl (PF)-Bupivacaine-NaCl

fentanyl citrate/droperidol Fentanyl-Droperidol fentanyl citrate/PF Fentanyl Citrate (PF) fentanyl citrate/PF Sublimaze (PF)

fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF Fentanyl-Ropivacaine-NaCl (PF)

hydrocodone bitartrate Hysingla ER
hydrocodone bitartrate Zohydro ER
hydrocodone bitartrate/acetaminophen Anexsia
hydrocodone bitartrate/acetaminophen Co-Gesic
hydrocodone bitartrate/acetaminophen Dolacet

cder_mpl2p_wp020 Page 68 of 79



Generic Name	Brand Name
hydrocodone bitartrate/acetaminophen	Dolorex Forte
hydrocodone bitartrate/acetaminophen	Hycet
hydrocodone bitartrate/acetaminophen	Hydrocet
hydrocodone bitartrate/acetaminophen	Hydrocodone-Acetaminophen
hydrocodone bitartrate/acetaminophen	Hydrogesic
hydrocodone bitartrate/acetaminophen	Liquicet
hydrocodone bitartrate/acetaminophen	Lorcet (hydrocodone)
hydrocodone bitartrate/acetaminophen	Lorcet 10/650
hydrocodone bitartrate/acetaminophen	Lorcet HD
hydrocodone bitartrate/acetaminophen	Lorcet Plus
hydrocodone bitartrate/acetaminophen	Lortab
hydrocodone bitartrate/acetaminophen	Lortab 10-325
hydrocodone bitartrate/acetaminophen	Lortab 5-325
hydrocodone bitartrate/acetaminophen	Lortab 7.5-325
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Margesic-H
hydrocodone bitartrate/acetaminophen	Maxidone
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Polygesic
hydrocodone bitartrate/acetaminophen	Stagesic
hydrocodone bitartrate/acetaminophen	Vanacet
hydrocodone bitartrate/acetaminophen	Verdrocet
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES
hydrocodone bitartrate/acetaminophen	Vicodin HP
hydrocodone bitartrate/acetaminophen	Xodol 10/300
hydrocodone bitartrate/acetaminophen	Xodol 5/300
hydrocodone bitartrate/acetaminophen	Xodol 7.5/300
hydrocodone bitartrate/acetaminophen	Zamicet
hydrocodone bitartrate/acetaminophen	Zolvit
hydrocodone bitartrate/acetaminophen	Zydone
hydrocodone bitartrate/acetaminophen/dietary supplement	Theracodophen-325
#11	
hydrocodone bitartrate/acetaminophen/dietary supplement #12	Theracodophen-650
hydrocodone bitartrate/acetaminophen/dietary supplement #13	Theracodophen-Low-90
hydromorphone HCl	Dilaudid
hydromorphone HCl	Dilaudid-5
hydromorphone HCl	Exalgo ER
hydromorphone HCl	Hydromorphone
hydromorphone HCl in 0.9 % sodium chloride	Hydromorphone in 0.9 % NaCl
hydromorphone HCl in 0.9 % sodium chloride/PF	Hydromorphone (PF)-0.9 % NaCl
hydromorphone HCl in dextrose 5 %-water/PF	Hydromorphone in D5W (PF)
hydromorphone HCl in sterile water/PF	Hydromorphone (PF) in water
nyurumurphune nu in sterne water/Pr	rryaromorphone (FF) in water

cder_mpl2p_wp020 Page 69 of 79



Generic Name	Brand Name
hydromorphone HCl/bupivacaine HCl in 0.9% sodium	Hydromorphone-bupiv (PF)-NaCl
chloride/PF	
hydromorphone HCI/PF	Dilaudid (PF)
hydromorphone HCI/PF	Dilaudid-HP (PF)
hydromorphone HCI/PF	Hydromorphone (PF)
hydromorphone HCI/ropivacaine in 0.9 % sodium chloride	PF Hydromorph(PF)-Ropiv-0.9% NaCl
ibuprofen/oxycodone HCl	Combunox
ibuprofen/oxycodone HCl	Ibuprofen-Oxycodone
meperidine HCl	Demerol
meperidine HCl	Meperidine
meperidine HCl	Meperitab
meperidine HCl in 0.9 % sodium chloride	Meperidine in 0.9 % NaCl
meperidine HCl in 0.9 % sodium chloride/PF	Meperidine (PF) in 0.9 % NaCl
meperidine HCI/PF	Demerol (PF)
meperidine HCI/PF	Meperidine (PF)
meperidine HCl/promethazine HCl	Meperidine-Promethazine
meperidine HCl/promethazine HCl	Meprozine
Ant	tipsychotics
aripiprazole	Abilify
aripiprazole	Abilify Discmelt
aripiprazole	Abilify Maintena
aripiprazole	Aripiprazole
aripiprazole lauroxil	Aristada
aripiprazole lauroxil, submicronized	Aristada Initio
asenapine maleate	Saphris
asenapine maleate	Saphris (black cherry)
brexpiprazole	Rexulti
cariprazine HCl	Vraylar
chlorpromazine HCl	Chlorpromazine
clozapine	Clozapine
clozapine	Clozaril
clozapine	FazaClo
clozapine	Versacloz
fluphenazine decanoate	Fluphenazine Decanoate
fluphenazine HCl	Fluphenazine HCl
haloperidol	Haloperidol
haloperidol decanoate	Haldol Decanoate
haloperidol decanoate	Haloperidol Decanoate
haloperidol lactate	Haldol
haloperidol lactate	Haloperidol Lactate
iloperidone	Fanapt
loxapine	Adasuve
loxapine succinate	Loxapine Succinate

cder_mpl2p_wp020 Page 70 of 79

Loxitane

Latuda

Moban

loxapine succinate

lurasidone HCl

molindone HCl



Generic Name	Brand Name
molindone HCl	Molindone
olanzapine	Olanzapine
olanzapine	Zyprexa
olanzapine	Zyprexa Zydis
olanzapine pamoate	Zyprexa Relprevv
olanzapine/fluoxetine HCl	Olanzapine-Fluoxetine
olanzapine/fluoxetine HCl	Symbyax
paliperidone	Invega
paliperidone	Paliperidone
paliperidone palmitate	Invega Sustenna
paliperidone palmitate	Invega Trinza
perphenazine	Perphenazine
perphenazine/amitriptyline HCl	Duo-Vil 2-10
perphenazine/amitriptyline HCl	Duo-Vil 2-25
perphenazine/amitriptyline HCl	Perphenazine-Amitriptyline
pimavanserin tartrate	Nuplazid
pimozide	Orap
pimozide	Pimozide
quetiapine fumarate	Quetiapine
quetiapine fumarate	Seroquel
quetiapine fumarate	Seroquel XR
risperidone	Perseris
risperidone	Risperdal
risperidone	Risperdal M-TAB
risperidone	Risperidone
risperidone microspheres	Risperdal Consta
thioridazine HCl	Thioridazine
thiothixene	Navane
thiothixene	Thiothixene
trifluoperazine HCl	Trifluoperazine
ziprasidone HCl	Geodon
ziprasidone HCl	Ziprasidone HCl
ziprasidone mesylate	Geodon

Anxioly	vtic and	Hypnotic	Medication
Allaloi	viit anu	пурноше	Wieulcation

alprazolam	Alprazolam
alprazolam	Alprazolam Intensol
alprazolam	Niravam
alprazolam	Xanax
alprazolam	Xanax XR
alprazolam/dietary supplement, misc combo no.17	Gabazolamine
amitriptyline HCI/chlordiazepoxide	Amitriptyline-Chlordiazepoxide
amitriptyline HCI/chlordiazepoxide	Limbitrol
amitriptyline HCI/chlordiazepoxide	Limbitrol DS
buspirone HCl	BuSpar
buspirone HCl	Buspirone
buspirone HCl	Vanspar

cder_mpl2p_wp020 Page 71 of 79



Generic Name	Brand Name
chlordiazepoxide HCl	Chlordiazepoxide HCl
chlordiazepoxide HCl	Librium
clorazepate dipotassium	Clorazepate Dipotassium
clorazepate dipotassium	Tranxene T-Tab
clorazepate dipotassium	Tranxene-SD
diazepam	Diazepam
diazepam	Diazepam Intensol
diazepam	Valium
lorazepam	Ativan
lorazepam	Lorazepam
lorazepam	Lorazepam Intensol
meprobamate	Meprobamate
oxazepam	Oxazepam
butabarbital sodium	Butisol
chloral hydrate	Chloral Hydrate
chloral hydrate	Somnote
doxepin HCl	Doxepin
doxepin HCl	Prudoxin
doxepin HCl	Silenor
doxepin HCl	Sinequan
doxepin HCl	Zonalon
estazolam	Estazolam
estazolam	Prosom
eszopiclone	Eszopiclone
eszopiclone	Lunesta
flurazepam HCl	Dalmane
flurazepam HCl	Flurazepam
mephobarbital	Mebaral
mephobarbital	Mephobarbital
midazolam HCl	Midazolam
midazolam HCl in 0.9 % sodium chloride	Midazolam in 0.9 % Sod Chlorid
midazolam HCl in 0.9 % sodium chloride/PF	Midazolam (PF) in 0.9 % NaCl
midazolam HCl in 5 % dextrose and water/PF	Midazolam in Dextrose 5 % (PF)
midazolam HCl in dextrose 5% in water	Midazolam in dextrose 5 %
midazolam HCl/PF	Midazolam (PF)
pentobarbital sodium	Nembutal Sodium
pentobarbital sodium	Pentobarbital Sodium
quazepam	Doral
quazepam	Quazepam
ramelteon	Rozerem
secobarbital sodium	Seconal
secobarbital sodium	Seconal Sodium
suvorexant	Belsomra
tasimelteon	Hetlioz
temazepam	Restoril
temazepam	Temazepam

cder_mpl2p_wp020 Page 72 of 79



Generic Name	Brand Name	
emazepam/dietary supplement no.8	Strazepam	
riazolam	Halcion	
riazolam	Triazolam	
aleplon	Sonata	
aleplon	Zaleplon	
olpidem tartrate	Ambien	
olpidem tartrate	Ambien CR	
olpidem tartrate	AMBIEN PAK	
olpidem tartrate	Edluar	
olpidem tartrate	Intermezzo	
olpidem tartrate	Zolpidem	
olpidem tartrate	Zolpimist	
Lithiur	m and Other Mood Stabilizers	
arbamazepine	Carbamazepine	
arbamazepine	Carbatrol	
arbamazepine	Epitol	
arbamazepine	Equetro	
arbamazepine	Tegretol	
arbamazepine	Tegretol XR	
lonazepam	Clonazepam	
lonazepam	Klonopin	
ivalproex sodium	Depakote	
livalproex sodium	Depakote ER	
livalproex sodium	Depakote Sprinkles	
livalproex sodium	Divalproex	
amotrigine	Lamictal	
amotrigine	Lamictal ODT	
amotrigine	Lamictal ODT Starter (Blue)	
amotrigine	Lamictal ODT Starter (Green)	
amotrigine	Lamictal ODT Starter (Orange)	
amotrigine	Lamictal Starter (Blue) Kit	
amotrigine	Lamictal Starter (Green) Kit	
amotrigine	Lamictal Starter (Orange) Kit	
amotrigine	Lamictal XR	
amotrigine	Lamictal XR Starter (Blue)	
amotrigine	Lamictal XR Starter (Green)	
amotrigine	Lamictal XR Starter (Orange)	
amotrigine	Lamotrigine	
amotrigine	Subvenite	
amotrigine	Subvenite Starter (Blue) Kit	
amotrigine	Subvenite Starter (Green) Kit	
amotrigine	Subvenite Starter (Orange) Kit	
ithium carbonate	Lithium Carbonate	
ithium carbonate	Lithobid	
ithium citrate	Lithium Citrate	
oxcarbazepine	Oxcarbazepine	

Page 73 of 79 $cder_mpl2p_wp020$



Generic Name	Brand Name
oxcarbazepine	Oxtellar XR
oxcarbazepine	Trileptal
valproic acid	Depakene
valproic acid	Stavzor
valproic acid	Valproic Acid
valproic acid (as sodium salt) (valproate sodium)	Depacon
valproic acid (as sodium salt) (valproate sodium)	Depakene
valproic acid (as sodium salt) (valproate sodium)	Valproate Sodium
valproic acid (as sodium salt) (valproate sodium)	Valproic Acid (as sodium salt)

Non-Sertraline Antidepressants

amitriptyline HCl Amitriptyline amitriptyline HCl Vanatrip

amitriptyline HCl/chlordiazepoxide Amitriptyline-Chlordiazepoxide

amitriptyline HCI/chlordiazepoxide Limbitrol amitriptyline HCI/chlordiazepoxide Limbitrol DS amoxapine **Amoxapine** bupropion HBr **Aplenzin** bupropion HCl **Budeprion SR** bupropion HCl **Budeprion XL** bupropion HCl **Bupropion HCl** bupropion HCl Forfivo XL bupropion HCl Wellbutrin Wellbutrin SR bupropion HCl bupropion HCl Wellbutrin XL bupropion HCI/dietary supplement combination no.15 Appbutamone-D bupropion HCI/dietary supplement combination no.16 **Appbutamone**

citalopram hydrobromide Celexa citalopram hydrobromide Citalopram clomipramine HCl Anafranil clomipramine HCl Clomipramine desipramine HCl Desipramine desipramine HCl Norpramin desvenlafaxine Desvenlafaxine desvenlafaxine Khedezla

desvenlafaxine fumarate Desvenlafaxine Fumarate desvenlafaxine succinate Desvenlafaxine Succinate

desvenlafaxine succinate Pristiq
doxepin HCl Doxepin
doxepin HCl Silenor
doxepin HCl Sinequan
duloxetine HCl Cymbalta
duloxetine HCl Duloxetine
duloxetine HCl Irenka

escitalopram oxalate Escitalopram Oxalate

escitalopram oxalate Lexapro fluoxetine HCl Fluoxetine

cder_mpl2p_wp020 Page 74 of 79



Generic Name	Brand Name		
fluoxetine HCl	Prozac		
fluoxetine HCl	Prozac Weekly		
fluoxetine HCl	Rapiflux		
fluoxetine HCl	Sarafem		
fluoxetine HCl	Selfemra		
fluoxetine HCI/dietary supplement no.17	Gaboxetine		
fluoxetine HCI/dietary supplement no.8	Sentroxatine		
fluvoxamine maleate	Fluvoxamine		
fluvoxamine maleate	Luvox CR		
imipramine HCl	Imipramine HCl		
imipramine HCl	Tofranil		
imipramine pamoate	Imipramine Pamoate		
imipramine pamoate	Tofranil-PM		
isocarboxazid	Marplan		
levomilnacipran HCl	Fetzima		
maprotiline HCl	Maprotiline		
mirtazapine	Mirtazapine		
mirtazapine	Remeron		
mirtazapine	Remeron SolTab		
nefazodone HCl	Nefazodone		
nefazodone HCl	Serzone		
nortriptyline HCl	Nortriptyline		
nortriptyline HCl	Pamelor		
olanzapine/fluoxetine HCl	Olanzapine-Fluoxetine		
olanzapine/fluoxetine HCl	Symbyax		
paroxetine HCl	Paroxetine HCl		
paroxetine HCl	Paxil		
paroxetine HCl	Paxil CR		
paroxetine mesylate	Brisdelle		
paroxetine mesylate	Paroxetine Mesylate (menop.sym)		
paroxetine mesylate	Pexeva		
perphenazine/amitriptyline HCl	Duo-Vil 2-10		
perphenazine/amitriptyline HCl	Duo-Vil 2-25		
perphenazine/amitriptyline HCl	Perphenazine-Amitriptyline		
phenelzine sulfate	Nardil		
phenelzine sulfate	Phenelzine		
protriptyline HCl	Protriptyline		
protriptyline HCl	Vivactil		
selegiline	Emsam		
tranylcypromine sulfate	Parnate		
tranylcypromine sulfate	Tranylcypromine		
trazodone HCl	Desyrel		
trazodone HCl	Oleptro ER		
trazodone HCl	Trazodone		
trazodone HCl/dietary supplement no.8	Trazamine		
trimipramine maleate	Surmontil		

cder_mpl2p_wp020 Page 75 of 79



Generic Name	Brand Name
trimipramine maleate	Trimipramine
venlafaxine HCl	Effexor
venlafaxine HCl	Effexor XR
venlafaxine HCl	Venlafaxine
vortioxetine hydrobromide	Brintellix
vortioxetine hydrobromide	Trintellix

cder_mpl2p_wp020 Page 76 of 79



Appendix H. Specifications for Parameters Used to Define this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis (PSA) tools, Version 7.3.3, with additional programming to assess the risk of hospitalized depression comparing brand name sertraline to its authorized generic in the Sentinel Distributed Database (SDD).

Query Period: June 30, 2006 - September 30, 2015

Coverage Requirement: Medical and Drug Coverage

Enrollment Gap: 0 Days **Enrollment Requirement:** 180 days

Age Groups: 12-17, 18-24, 25-54, 55+ years

	Risk Window: 1-14 days Without socioeconomic status covariate		Risk Window: 1-365 days Without socioeconomic status covariate		Risk Window: 15-365 days Without socioeconomic status covariate	
	Compa	arison 1	Comparison 2		Comparison 3	
Drug/Exposure						
Incident Exposure/Comparator	Authorized generic sertraline	Brand name sertraline	Authorized generic sertraline	Brand name sertraline	Authorized generic sertraline	Brand name sertraline
Incident with Respect	Any sertraline					
to:	(including those not in exposure definitions)	(including those not in exposure definitions)	(including those not in exposure definitions)	-	(including those not in exposure definitions)	(including those not in exposure definitions)
Incidence Assessment	Lookback period should search for evidence of days supply					
Washout Period	180 days					
Cohort Definition	Cohort includes only the first valid incident treatment episode during the query period	Cohort includes only the first valid incident treatment episode during the query period	Cohort includes only the first valid incident treatment episode during the query period	Cohort includes only the first valid incident treatment episode during the query period	Cohort includes only the first valid incident treatment episode during the query period	Cohort includes only the first valid incident treatment episode during the query period
Episode Gap	15	15	15	15	15	15
Episode Extension Period	15	15	15	15	15	15
Minimum Episode Duration	1	1	1	1	1	1

cder_mpl2p_wp020 Page 77 of 79



Appendix H. Specifications for Parameters Used to Define this Request

Risk Window: 1-14 days		Risk Window: 1-365 days		Risk Window: 15-365 days	
Without socioeconomic status covariate		Without socioeconomic status covariate		Without socioeconomic status covariate	
Comparison 1 Comparison 2		rison 2	Comparison 3		
14	14	365	365	365	365
1	1	1	1	1	1
Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant	Death, query end date, disenrollment, event, switch to generic name sertraline, dispensing for another antidepressant	Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant	generic name	Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant	Death, query end date, disenrollment, event, switch to generic name sertraline, dispensing for another antidepressant
Mood/depressive	Mood/depressive	Mood/depressive	Mood/depressive	Mood/depressive	Mood/depressive
disorder	disorder	disorder	disorder	disorder	disorder
Inclusion	Inclusion	Inclusion	Inclusion	Inclusion	Inclusion
(-90, 0)	(-90, 0)	(-90, 0)	(-90, 0)	(-90, 0)	(-90, 0)
Traumatic brain injury	Traumatic brain injury	Traumatic brain injury	Traumatic brain injury	Traumatic brain injury	Traumatic brain injury
Exclusion	Exclusion	Exclusion	Exclusion	Exclusion	Exclusion
(-180, 0)	(-180, 0)	(-180, 0)	(-180, 0)	(-180, 0)	(-180, 0)
Hospitalized depression		Hospitalized depression		Hospitalized depression	
Primary diagnosis of mood or depressive		Primary diagnosis of mood or depressive		Primary diagnosis of mood or depressive	
•				disorder in inpatient care setting	
	and and		•	and	
				No diagnosis of poisoning, toxicity of a	
				substance chiefly non-medical in nature,	
·		·		asphyxiation, or open wound to the elbow,	
				wrist, or forearm in inpatient care setting or	
emergency department on the same day		emergency department on the same day		emergency department on the same day	
	Compa 14 1 Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Mood/depressive disorder Inclusion (-90, 0) Fraumatic brain injury Exclusion (-180, 0) Hospitalized Primary diagnosis of disorder in inpat an No diagnosis of pois substance chiefly no asphyxiation, or open wrist, or forearm in injury	Comparison 1 14 1 1 Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Mood/depressive disorder Inclusion (-90, 0) Fraumatic brain injury Exclusion (-180, 0) Hospitalized depression Primary diagnosis of mood or depressive disorder in inpatient care setting and No diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or	Traumatic brain injury Exclusion (-90, 0) Hospitalized depression (-180, 0) Hospitalized depression (-180, 0) Hospitalized depressive disorder in inpatient care setting and No diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or approximate (144) 14 14 15 15 16 16 17 18 19 19 10 10 10 11 10 11 10 11 10 11 10 10 10 10 10 10 10 10 10 10 11 11 11 11 11 12 12	Without socioeconomic status covariate Without socioeconomic status covariate Comparison 1 Comparison 2 1 1 1 1 1 Death, query end date, disenrollment, event, switch to brand name sertraline, lispensing for another antidepressant Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Mood/depressive disorder Mood/depressive disorder Mood/depressive disorder Mood/depressive disorder Mood/depressive disorder Mood/depressive disorder Inclusion Inclusi	Without socioeconomic status covariate Comparison 1 Comparison 2 Comparison 2 Comparison 2 14 14 14 14 15 Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant Mood/depressive disorder Inclusion (-90, 0) (-90, 0) Traumatic brain injury Exclusion (-180, 0) Hospitalized depression Primary diagnosis of mood or depressive disorder in inpatient care setting and No diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or approach is a first to comparison 2 Death, query end date, disenrollment, event, switch to brand name sertraline, dispensing for another antidepressant antidepressant antidepressant antidepressant antidepressant antidepressant Mood/depressive disorder disorder disorder inclusion inclusion (-90, 0) (-90, 0) (-90, 0) (-90, 0) (-90, 0) (-180, 0) Hospitalized depression No diagnosis of poisoning, toxicity of a substance chiefly non-medical in nature, asphyxiation, or open wound to the elbow, wrist, or forearm in inpatient care setting or wrist, or f

cder_mpl2p_wp020 Page 78 of 79



Appendix H. Specifications for Parameters Used to Define this Request

	Risk Window: 1-14 days	Risk Window: 1-365 days	Risk Window: 15-365 days Without socioeconomic status covariate	
	Without socioeconomic status covariate	Without socioeconomic status covariate		
	Comparison 1	Comparison 2	Comparison 3	
Washout (days)	0	0	0	
Blackout Period	1	1	14	
Propensity Score Matching				
Covariates	See Appendices F-G	See Appendices F-G	See Appendices F-G	
Covariate Evaluation Window	(-180, -1)	(-180, -1)	(-180, -1)	
Matching Ratio	1:n	1 :n	1:n	
Matching Caliper Settings	0.05	0.05	0.05	
Analysis Type	Conditional	Conditional	Conditional	
Variable in Cox model	None	None	None	
Subgroup Analysis				
Stratifying variable	Age group	Age group	Age group	
Re-matching	Whole Population	Whole Population	Whole Population	
Additional Output	Kaplan Meier curves	Kaplan Meier curves	Kaplan Meier curves	

International Classification of Disease, Ninth Edition, Clinical Modification (ICD-9-CM), International Classification of Disease, Tenth Edition, Clinical Modification (ICD-10-CM), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Third Edition (CPT-3), and Current Procedural Terminology, Fourth Edition (CPT-4) codes are provided by Optum360. National Drug Codes (NDC) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."

cder_mpl2p_wp020 Page 79 of 79