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**VERSION HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version Date** | **Version Number** | **Change Log** | **Rationale for Change** |
| November 12, 2018 | v2 | Added covariate: "co-prescription of Drug C" measured in days [-183, 0] in any care setting and diagnosis position | Added because of concern that Drug C may interact with effect of Drug A and B |
| April 15, 2019 | v3 | Changed covariate assessment window from days [-183, -1] to [-183, 0] | Changed assessment window to include day 0, due to concern that important diagnoses occurring on the day of drug dispensation may be missed |



|  |  |  |
| --- | --- | --- |
| **ATTRITION TABLE** |   |   |
|   | **Less Excluded Patients** | **Remaining Patients** |
| All patients |   |   |
| Did not meet cohort entry criteria (dispensation of drug A or drug B)  |   |   |
| Excluded due to insufficient prior enrollment (<183 days with 45-day gaps allowed) |   |   |
| Excluded due to prior use of referent (Drug B) |   |   |
| Excluded due to prior use of exposure (Drug A) |   |   |
| Excluded because patient qualified in >1 exposure category |   |   |
| Excluded based on Age <18 |   |   |
| Excluded based on Age ≥65 |   |   |
| Excluded based on Gender (unknown) |   |   |
| Excluded based on Drug supply <=0 days |   |   |
| Excluded based on Drug A (additional formulations and combinations not included in exposure) |   |   |
| Excluded based on Drug B (additional formulations and combinations not included in referent) |   |   |
| Excluded based on absence of community acquired pneumonia diagnosis within 14 days prior to index date |   |   |
| Excluded based on absence of chest x-ray within 14 days prior to index date |   |   |
| Excluded based on inpatient admission within 90 days prior to index date |   |   |
| Excluded if censored on day 1  |   |   |
| Final cohort |   |   |
|   | Drug A initiators N =  |   |
|   | Drug B initiators N =  |   |



| **ANALYSIS SPECIFICATIONS**  |  |  |   |   |   |
| --- | --- | --- | --- | --- | --- |
| **Analyses** |   |   |   |   |   |
|  | **Primary** | **Secondary 1** | **Secondary 2** | **Subgroup** | **Sensitivity** |
| **Outcome:** | Myocardial infarction | Stroke | TIA | n/a | Myocardial infarction |
| **Software:**  | SAS 9.4: PHREG, PROC LOGISTIC, Pharmacoepi Toolbox nearest neighbor matching macro (http://www.drugepi.org/dope-downloads/) | SAS 9.4: PHREG, PROC LOGISTIC, Pharmacoepi Toolbox nearest neighbor matching macro (http://www.drugepi.org/dope-downloads/) | SAS 9.4: PHREG, PROC LOGISTIC, Pharmacoepi Toolbox nearest neighbor matching macro (http://www.drugepi.org/dope-downloads/) |   | SAS 9.4: PHREG, PROC LOGISTIC, Pharmacoepi Toolbox nearest neighbor matching macro (http://www.drugepi.org/dope-downloads/) |
| **Model(s):**  | Outcome: Cox proportional hazards model, Propensity score: logistic regression | Outcome: Cox proportional hazards model, Propensity score: logistic regression | Outcome: Cox proportional hazards model, Propensity score: logistic regression |   | Outcome: Cox proportional hazards model, Propensity score: logistic regression |
| **Confounding Adjustment *(check all that apply and provide details, where requested)*** |  |  |  |  |  |
| **Bivariate** |  |  |  |  |  |
| **Multivariable** |  |  |  |  |  |
| **Propensity Score Matching**  | X | X | X |   |   |
| ***(specify matching algorithm, ratio, and caliper)*** | Nearest neighbor, Ratio = fixed 1:1, Caliper = 0.025 | Nearest neighbor, Ratio = fixed 1:1, Caliper = 0.025 | Nearest neighbor, Ratio = fixed 1:1, Caliper = 0.025 |   |   |
| **Propensity Score Weighting**  |  |  |  |  | **X** |
| **Confounding Adjustment *(check all that apply and provide details, where requested)*** |  |  |  |  |  |
| ***(specify weight formula, trimming, truncation decisions)*** |  |  |  |  | Exposed weight = 1, Comparator weight = PS/(1-PS), 1% asymmetrical trim |
| **Propensity Score Stratification** |  |  |  |  |  |
| ***(specify strata definition)*** |  |  |  |  |  |
| **Other** |  |  |  |  |  |
| ***(specify details)*** |  |  |  |  |  |
| **Missing Data Methods (check all that apply)** |   |   |   |   |   |
| Missing Indicators |   |   |   |   |   |
| Complete Case |   |   |   |   |   |
| Last Value Carried Forward |   |   |   |   |   |
| Multiple Imputation |   |   |   |   |   |
| Other (please specify)… |   |   |   |   |   |

| **GLOSSARY** |   |
| --- | --- |
| **Term** | **Definition** |
| Confounder | Variable other than the exposure of interest or outcome under investigation that is: 1) associated with exposure; 2) a risk factor for the outcome; and 3) not on the causal pathway between the exposure and the outcome. A confounder can artificially inflate or reduce the magnitude of association between an exposure and outcome. |
| Covariates | Variables that are neither exposure nor outcome of interest but are measured to describe a population or because they may be a confounder to account for in analyses. |
| Data Extraction Date | The date when the data were extracted from the dynamic healthcare database. |
| Days Supplied | Number of days supplied for a dispensed prescription. |
| Eligible Cohort Entry Period | Calendar time frame, during which cohort entry dates are identified. |
| Empirically-Defined Covariates | Covariates that are not prespecified by the investigator. The selection of these covariates is based on applying algorithms to the data. The algorithms for covariate selection may be tuned by investigator-specified parameters. |
| Enrollment/Coverage | For insurance claims data, this may refer to periods of enrollment in medical and/or drug plans. For electronic health record databases, this may refer to algorithms designed to identify patients whose healthcare contacts are likely to be covered within the healthcare system. |
| Enrollment Gap | Maximum number of days allowed between two consecutive enrollment periods to still be considered “continuously enrolled.” |
| Follow-Up Window | The interval during which occurrence of the outcome of interest in the study population will be included in the analysis. |
| Grace Window | Number of days added to days’ supply to allow for non-adherence or account for the hypothesized biologic exposure risk window. Operationally, this could be defined as the number of extra days added to the end of a days’ supply to extend time counted as "exposed." This grace may bridge the gap between dispensations, where the days’ supply dispensed does not cover all days until the refill. |
| Index Date | The date when subjects enter the study population (cohort entry date, outcome event date). It is defined based on events in the patient's longitudinal timeline; other windows are defined relative to the index date. |
| Assessment Window | Interval during which a patient is required to have evidence of a pre-existing condition (diagnosis/procedure/drug dispensing). May be used for washout of exposure or outcome, exclusion assessment, or covariate assessment. |
| Predefined Covariates | Covariates that are prespecified and defined by the investigator in the protocol. |
| Principal Diagnosis | Diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital.  |
| Source Data Range | The calendar time range covered by a data source that is available.  |
| Stockpiling Algorithm | Algorithm defining how early refills are handled when determining length of exposure follow up. |
| Study Period  | Calendar time interval of data available for study, including pre-index date assessment windows and post-index follow up. |
| Treatment Episode | Continuous period of exposure, defined by using dispensation date + days’ supply and applying stockpiling algorithms and/or grace windows. |
| Washout Window | Minimum number of days a patient is required to have no evidence of prior exposure and/or outcome. |
| Wildcard | Symbol used to represent any single alphanumeric digit in code algorithms. For example, 410.\*1, where \* is the wildcard. |

**Appendix A: Study Population Entry Criteria**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Study Entry Criterion** | **NDC** | **Generic Name** | **Brand Name** | **Route** | **Strength** |
| Drug A | 00003016050 | drug A | Awesome Drug | tablet | 250mg |
| Drug B | 00003016050 | drug B | Really Cool Drug | tablet | 250mg |
|  |  |  |  |  |  |

**Appendix B: Drug, Diagnosis, and Procedure-Based Inclusion/Exclusion Criteria**

| **Exclusion Criteria** | **Code** | **Code Category** | **Code Type** | **Description** | **Route** | **Strength** |
| --- | --- | --- | --- | --- | --- | --- |
| Drug A | 00003016050 | drug A | NDC | Awesome Drug  | tablet | 250mg |
| Drug B | 00003016050 | drug B | NDC | Really Cool Drug | tablet | 250mg |
| Drug A | 01003016050 | drug A | NDC | Awesome Drug oral | oral suspension | 5 ml |
| Drug B | 00803016050 | drug B | NDC | Really Cool Drug injectable | injectable | 5 y injectable |
| Chest radiography | 87.44 | PX | 09 | Routine chest x-ray, so described |  |  |
| Chest radiography | 87.49 | PX | 09 | Other chest x-ray |  |  |
| Chest radiography | 71010 | PX | C4 | Radiologic examination, chest; single view, frontal |  |  |
| Chest radiography | 71015 | PX | C4 | Radiologic examination, chest; stereo, frontal |  |  |
| Chest radiography | 71020 | PX | C4 | Radiologic examination, chest, 2 views, frontal and lateral / Radiologic examination, chest, 2 views, frontal and lateral; / Radiologic examination, chest, two views, frontal and lateral |  |  |
| Chest radiography | 71021 | PX | C4 | Radiologic examination, chest, 2 views, frontal and lateral; with apical lordotic procedure / Radiologic examination, chest, two views, frontal and lateral; with apical lordotic procedure |  |  |
| Chest radiography | 71022 | PX | C4 | Radiologic examination, chest, 2 views, frontal and lateral; with oblique projections / Radiologic examination, chest, two views, frontal and lateral; with oblique projections |  |  |
| Chest radiography | 71023 | PX | C4 | Radiologic examination, chest, 2 views, frontal and lateral; with fluoroscopy / Radiologic examination, chest, two views, frontal and lateral; with fluoroscopy |  |  |
| Chest radiography | 71030 | PX | C4 | Radiologic examination, chest, complete, minimum of 4 views / Radiologic examination, chest, complete, minimum of 4 views; / Radiologic examination, chest, complete, minimum of four views |  |  |
| Chest radiography | 71034 | PX | C4 | Radiologic examination, chest, complete, minimum of 4 views; with fluoroscopy / Radiologic examination, chest, complete, minimum of four views; with fluoroscopy |  |  |
| Chest radiography | 71035 | PX | C4 | Radiologic examination, chest, special views (e.g., lateral decubitus, Bucky studies) |  |  |
| Community-acquired pneumonia | 480 | DX | 09 | VIRAL PNEUMONIA |  |  |
| Community-acquired pneumonia | 480.0 | DX | 09 | PNEUMONIA DUE TO ADENOVIRUS |  |  |
| Community-acquired pneumonia | 480.1 | DX | 09 | PNEUMONIA DUE TO RESPIRATORY SYNCYTIAL VIRUS |  |  |
| Community-acquired pneumonia | 480.2 | DX | 09 | PNEUMONIA DUE TO PARAINFLUENZA VIRUS |  |  |
| Community-acquired pneumonia | 480.3 | DX | 09 | PNEUMONIA DUE TO SARS-ASSOCIATED CORONAVIRUS |  |  |
| Community-acquired pneumonia | 480.8 | DX | 09 | PNEUMONIA DUE TO OTHER VIRUS NOT ELSEWHERE CLASSIFIED |  |  |
| Community-acquired pneumonia | 480.9 | DX | 09 | VIRAL PNEUMONIA UNSPECIFIED |  |  |
| Community-acquired pneumonia | 481 | DX | 09 | PNEUMOCOCCAL PNEUMONIA [STREPTOCOCCUS PNEUMONIAE PNEUMONIA] |  |  |
| Community-acquired pneumonia | 482 | DX | 09 | OTHER BACTERIAL PNEUMONIA |  |  |
| Community-acquired pneumonia | 482.0 | DX | 09 | PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE |  |  |
| Community-acquired pneumonia | 482.1 | DX | 09 | PNEUMONIA DUE TO PSEUDOMONAS |  |  |
| Community-acquired pneumonia | 482.2 | DX | 09 | PNEUMONIA DUE TO HEMOPHILUS INFLUENZAE (H. INFLUENZAE) |  |  |
| Community-acquired pneumonia | 482.3 | DX | 09 | PNEUMONIA DUE TO STREPTOCOCCUS |  |  |
| Community-acquired pneumonia | 482.30 | DX | 09 | PNEUMONIA DUE TO STREPTOCOCCUS UNSPECIFIED |  |  |
| Community-acquired pneumonia | 482.31 | DX | 09 | PNEUMONIA DUE TO STREPTOCOCCUS GROUP A |  |  |
| Community-acquired pneumonia | 482.32 | DX | 09 | PNEUMONIA DUE TO STREPTOCOCCUS GROUP B |  |  |
| Community-acquired pneumonia | 482.39 | DX | 09 | PNEUMONIA DUE TO OTHER STREPTOCOCCUS |  |  |
| Community-acquired pneumonia | 482.4 | DX | 09 | PNEUMONIA DUE TO STAPHYLOCOCCUS |  |  |
| Community-acquired pneumonia | 482.40 | DX | 09 | PNEUMONIA DUE TO STAPHYLOCOCCUS UNSPECIFIED |  |  |
| Community-acquired pneumonia | 482.41 | DX | 09 | METHICILLIN SUSCEPTIBLE PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS |  |  |
| Community-acquired pneumonia | 482.42 | DX | 09 | METHICILLIN RESISTANT PNEUMONIA DUE TO STAPHYLOCOCCUS AUREUS |  |  |
| Community-acquired pneumonia | 482.49 | DX | 09 | OTHER STAPHYLOCOCCUS PNEUMONIA |  |  |
| Community-acquired pneumonia | 482.8 | DX | 09 | PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA |  |  |
| Community-acquired pneumonia | 482.81 | DX | 09 | PNEUMONIA DUE TO ANAEROBES |  |  |
| Community-acquired pneumonia | 482.82 | DX | 09 | PNEUMONIA DUE TO ESCHERICHIA COLI [E.COLI] |  |  |
| Community-acquired pneumonia | 482.83 | DX | 09 | PNEUMONIA DUE TO OTHER GRAM-NEGATIVE BACTERIA |  |  |
| Community-acquired pneumonia | 482.84 | DX | 09 | PNEUMONIA DUE TO LEGIONNAIRES' DISEASE |  |  |
| Community-acquired pneumonia | 482.89 | DX | 09 | PNEUMONIA DUE TO OTHER SPECIFIED BACTERIA |  |  |
| Community-acquired pneumonia | 482.9 | DX | 09 | BACTERIAL PNEUMONIA UNSPECIFIED |  |  |
| Community-acquired pneumonia | 483 | DX | 09 | PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM |  |  |
| Community-acquired pneumonia | 483.0 | DX | 09 | PNEUMONIA DUE TO MYCOPLASMA PNEUMONIAE |  |  |
| Community-acquired pneumonia | 483.1 | DX | 09 | PNEUMONIA DUE TO CHLAMYDIA |  |  |
| Community-acquired pneumonia | 483.8 | DX | 09 | PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM |  |  |
| Community-acquired pneumonia | 484 | DX | 09 | PNEUMONIA IN INFECTIOUS DISEASES CLASSIFIED ELSEWHERE |  |  |
| Community-acquired pneumonia | 484.1 | DX | 09 | PNEUMONIA IN CYTOMEGALIC INCLUSION DISEASE |  |  |
| Community-acquired pneumonia | 484.3 | DX | 09 | PNEUMONIA IN WHOOPING COUGH |  |  |
| Community-acquired pneumonia | 484.5 | DX | 09 | PNEUMONIA IN ANTHRAX |  |  |
| Community-acquired pneumonia | 484.6 | DX | 09 | PNEUMONIA IN ASPERGILLOSIS |  |  |
| Community-acquired pneumonia | 484.7 | DX | 09 | PNEUMONIA IN OTHER SYSTEMIC MYCOSES |  |  |
| Community-acquired pneumonia | 484.8 | DX | 09 | PNEUMONIA IN OTHER INFECTIOUS DISEASES CLASSIFIED ELSEWHERE |  |  |
| Community-acquired pneumonia | 485 | DX | 09 | BRONCHOPNEUMONIA ORGANISM UNSPECIFIED |  |  |
| Community-acquired pneumonia | 486 | DX | 09 | PNEUMONIA ORGANISM UNSPECIFIED |  |  |
| Community-acquired pneumonia | 487 | DX | 09 | INFLUENZA |  |  |
| Community-acquired pneumonia | 487.0 | DX | 09 | INFLUENZA WITH PNEUMONIA |  |  |
| Community-acquired pneumonia | 487.1 | DX | 09 | INFLUENZA WITH OTHER RESPIRATORY MANIFESTATIONS |  |  |
| Community-acquired pneumonia | 487.8 | DX | 09 | INFLUENZA WITH OTHER MANIFESTATIONS |  |  |
| Community-acquired pneumonia | 038.0 | DX | 09 | STREPTOCOCCAL SEPTICEMIA |  |  |
| Community-acquired pneumonia | 038.2 | DX | 09 | PNEUMOCOCCAL SEPTICEMIA |  |  |
| Community-acquired pneumonia | 041.0 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE |  |  |
| Community-acquired pneumonia | 041.00 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE STREPTOCOCCUS UNSPECIFIED |  |  |
| Community-acquired pneumonia | 041.01 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE STREPTOCOCCUS GROUP A |  |  |
| Community-acquired pneumonia | 041.02 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE STREPTOCOCCUS GROUP B |  |  |
| Community-acquired pneumonia | 041.03 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE STREPTOCOCCUS GROUP C |  |  |
| Community-acquired pneumonia | 041.04 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE STREPTOCOCCUS GROUP D [ENTEROCOCCUS] |  |  |
| Community-acquired pneumonia | 041.05 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE STREPTOCOCCUS GROUP G |  |  |
| Community-acquired pneumonia | 041.09 | DX | 09 | STREPTOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE OTHER STREPTOCOCCUS |  |  |
| Community-acquired pneumonia | 041.2 | DX | 09 | PNEUMOCOCCUS INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE |  |  |
| Community-acquired pneumonia | 320.1 | DX | 09 | PNEUMOCOCCAL MENINGITIS |  |  |

**Appendix C: Drug, Diagnosis, and Procedures, Based on Covariates**

(Note: as the file is extensive, we provide the first few covariates, here, only; for the full list, please visit the excel document).

| **Covariate** | **Code** | **Code Category** | **Code Type** | **Description** | **Strength** | **Dose** |
| --- | --- | --- | --- | --- | --- | --- |
| Degenerative disease of central nervous system | 330 | DX | 09 | CEREBRAL DEGENERATIONS USUALLY MANIFEST IN CHILDHOOD |  |  |
| Degenerative disease of central nervous system | 330.0 | DX | 09 | LEUKODYSTROPHY |  |  |
| Degenerative disease of central nervous system | 330.1 | DX | 09 | CEREBRAL LIPIDOSES |  |  |
| Degenerative disease of central nervous system | 330.2 | DX | 09 | CEREBRAL DEGENERATION IN GENERALIZED LIPIDOSES |  |  |
| Degenerative disease of central nervous system | 330.3 | DX | 09 | CEREBRAL DEGENERATION OF CHILDHOOD IN OTHER DISEASES CLASSIFIED ELSEWHERE |  |  |
| Degenerative disease of central nervous system | 330.8 | DX | 09 | OTHER SPECIFIED CEREBRAL DEGENERATIONS IN CHILDHOOD |  |  |
| Degenerative disease of central nervous system | 330.9 | DX | 09 | UNSPECIFIED CEREBRAL DEGENERATION IN CHILDHOOD |  |  |
| Degenerative disease of central nervous system | 331 | DX | 09 | OTHER CEREBRAL DEGENERATIONS |  |  |
| Degenerative disease of central nervous system | 331.0 | DX | 09 | ALZHEIMER'S DISEASE |  |  |
| Degenerative disease of central nervous system | 331.1 | DX | 09 | FRONTOTEMPORAL DEMENTIA |  |  |
| Degenerative disease of central nervous system | 331.11 | DX | 09 | PICK'S DISEASE |  |  |
| Degenerative disease of central nervous system | 331.19 | DX | 09 | OTHER FRONTOTEMPORAL DEMENTIA |  |  |
| Degenerative disease of central nervous system | 331.2 | DX | 09 | SENILE DEGENERATION OF BRAIN |  |  |
| Degenerative disease of central nervous system | 331.3 | DX | 09 | COMMUNICATING HYDROCEPHALUS |  |  |
| Degenerative disease of central nervous system | 331.4 | DX | 09 | OBSTRUCTIVE HYDROCEPHALUS |  |  |
| Degenerative disease of central nervous system | 331.5 | DX | 09 | IDIOPATHIC NORMAL PRESSURE HYDROCEPHALUS (INPH) |  |  |
| Degenerative disease of central nervous system | 331.6 | DX | 09 | CORTICOBASAL DEGENERATION |  |  |
| Degenerative disease of central nervous system | 331.7 | DX | 09 | CEREBRAL DEGENERATION IN DISEASES CLASSIFIED ELSEWHERE |  |  |
| Degenerative disease of central nervous system | 331.8 | DX | 09 | OTHER CEREBRAL DEGENERATION |  |  |
| Degenerative disease of central nervous system | 331.81 | DX | 09 | REYE'S SYNDROME |  |  |
| Degenerative disease of central nervous system | 331.82 | DX | 09 | DEMENTIA WITH LEWY BODIES |  |  |
| Degenerative disease of central nervous system | 331.83 | DX | 09 | MILD COGNITIVE IMPAIRMENT SO STATED |  |  |
| Degenerative disease of central nervous system | 331.89 | DX | 09 | OTHER CEREBRAL DEGENERATION |  |  |
| Degenerative disease of central nervous system | 331.9 | DX | 09 | CEREBRAL DEGENERATION UNSPECIFIED |  |  |
| Degenerative disease of central nervous system | 332 | DX | 09 | PARKINSON'S DISEASE |  |  |
| Degenerative disease of central nervous system | 332.0 | DX | 09 | PARALYSIS AGITANS |  |  |
| Degenerative disease of central nervous system | 332.1 | DX | 09 | SECONDARY PARKINSONISM |  |  |
| Degenerative disease of central nervous system | 333 | DX | 09 | OTHER EXTRAPYRAMIDAL DISEASE AND ABNORMAL MOVEMENT DISORDERS |  |  |
| Degenerative disease of central nervous system | 333.0 | DX | 09 | OTHER DEGENERATIVE DISEASES OF THE BASAL GANGLIA |  |  |
| Degenerative disease of central nervous system | 333.1 | DX | 09 | ESSENTIAL AND OTHER SPECIFIED FORMS OF TREMOR |  |  |
| Degenerative disease of central nervous system | 333.2 | DX | 09 | MYOCLONUS |  |  |
| Degenerative disease of central nervous system | 333.3 | DX | 09 | TICS OF ORGANIC ORIGIN |  |  |
| Degenerative disease of central nervous system | 333.4 | DX | 09 | HUNTINGTON'S CHOREA |  |  |
| Degenerative disease of central nervous system | 333.5 | DX | 09 | OTHER CHOREAS |  |  |
| Degenerative disease of central nervous system | 333.6 | DX | 09 | GENETIC TORSION DYSTONIA |  |  |
| Degenerative disease of central nervous system | 333.7 | DX | 09 | ACQUIRED TORSION DYSTONIA |  |  |
| Degenerative disease of central nervous system | 333.71 | DX | 09 | ATHETOID CEREBRAL PALSY |  |  |
| Degenerative disease of central nervous system | 333.72 | DX | 09 | ACUTE DYSTONIA DUE TO DRUGS |  |  |
| Degenerative disease of central nervous system | 333.79 | DX | 09 | OTHER ACQUIRED TORSION DYSTONIA |  |  |
| Degenerative disease of central nervous system | 333.8 | DX | 09 | FRAGMENTS OF TORSION DYSTONIA |  |  |
| Degenerative disease of central nervous system | 333.81 | DX | 09 | BLEPHAROSPASM |  |  |
| Degenerative disease of central nervous system | 333.82 | DX | 09 | OROFACIAL DYSKINESIA |  |  |
| Degenerative disease of central nervous system | 333.83 | DX | 09 | SPASMODIC TORTICOLLIS |  |  |

**Appendix D: Outcome**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Outcome** | **Code** | **Code Category** | **Code Type** | **Description** |
| Myocardial Infarction  | 41001 | DX | ICD9 | Acute myocardial infarction of anterolateral wall, initial episode of care |

**Appendix E: Care Setting**

| **CARE SETTING** |  |  |
| --- | --- | --- |
| IP = inpatient | All claims in the MarketScan inpatient admissions table and inpatient services are coded as IP; primary diagnosis is defined by the inpatient admissions primary diagnosis, only. |  |
| ED = emergency department | Any encounters in the inpatient service or outpatient service table with SVCSCAT ending in '20' or STDPLAC in ('23', '41', 42').  |  |
| AV = ambulatory visit | Based on outpatient service table values for STDPLAC (see below). |  |
| IS = institutional stay | Based on outpatient service table values for STDPLAC (see below). |  |
| OA = other ambulatory visit | Based on outpatient service table values for STDPLAC (see below). |  |
| STDPLAC |  |  |
| Value | Label | Care Setting |
| 1 | Pharmacy | AV |
| 3 | School | AV |
| 4 | Homeless Shelter | AV |
| 11 | Office | AV |
| 12 | Patient Home | AV |
| 13 | Assisted Living Facility | IS |
| 14 | Group Home | IS |
| 15 | Mobile Unit | AV |
| 16 | Temporary Lodging | AV |
| 17 | Walk-In Retail Health Clinic | AV |
| 18 | Place of Employment - Worksite | AV |
| 20 | Urgent Care Facility | AV |
| 21 | Inpatient Hospital | AV |
| 22 | Outpatient Hospital | AV |
| 23 | Emergency Room - Hospital | ED |
| 24 | Ambulatory Surgical Center | AV |
| 25 | Birthing Center | AV |
| 26 | Military Treatment Facility | AV |
| Value | Label | Care Setting |
| 27 | Inpatient Long-Term Care (NEC) | IS |
| 28 | Other Inpatient Care (NEC) | IS |
| 31 | Skilled Nursing Facility | IS |
| 32 | Nursing Facility | IS |
| 33 | Custodial Care Facility | IS |
| 34 | Hospice | IS |
| 35 | Adult Living Care Facility | IS |
| 41 | Ambulance (land) | ED |
| 42 | Ambulance (air or water) | ED |
| 49 | Independent Clinic | AV |
| 50 | Federally Qualified Health Center | AV |
| 51 | Inpatient Psychiatric Facility | AV |
| 52 | Psych Facility Partial Hospital | AV |
| 53 | Community Mental Health Center | AV |
| 54 | Intermed Care/Mental Retarded | AV |
| 55 | Residential Substance Abuse Facility | AV |
| 56 | Psych Residential Treatment Center | AV |
| 57 | Non-Resident Substance Abuse Facility | AV |
| 60 | Mass Immunization Center | AV |
| 61 | Comprehensive Inpatient Rehab Facility | AV |
| 62 | Comprehensive Outpatient Rehab Facility | AV |
| 65 | End-Stage Renal Disease Facility | AV |
| 71 | State/Local Public Health Clinic | AV |
| 72 | Rural Health Clinic | AV |
| 81 | Independent Laboratory | AV |
| 95 | Outpatient (NEC) | AV |
| 98 | Pharmacy | AV |
| 99 | Other Unlisted Facility | OA |