

#### Disclaimer

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).

If you are using a web page screen reader and are unable to access this document, please contact the Sentinel Operations Center for assistance at info@sentinelsystem.org.



## Overview for Request: cder\_mpl2p\_wp047

Request ID: cder mpl2p wp047

<u>Request Description</u>: In this report we investigated the comparative risk of thromboembolic stroke, intracranial hemorrhage, gastrointestinal bleeding, and extracranial bleeding outcomes associated with use of dabigatran and apixaban in individuals under 65 years of age with non-valvular atrial fibrillation in the Sentinel Distributed Database (SDD).

<u>Sentinel Routine Querying Module:</u> Cohort Identification and Descriptive Analysis (CIDA) module, version 11.3.0, with Propensity Score Analysis module and custom programming.

<u>Data Source:</u> We distributed this request to five Data Partners (DP) on July 7, 2023. The study period included data from October 19, 2010 to February 28, 2022. See Appendix A for a list of the latest dates of available data for each DP included in this report.

Study Design: We identified cohorts of incident dabigatran and apixaban users among health plan members who were under 65 years of age with atrial fibrillation. We evaluated the occurrence of thromboembolic stroke (stroke), intracranial hemorrhage (ICH), major extracranial bleeding (MEB), and gastrointestinal bleeding (GIB) outcomes among these cohorts. We then conducted a Propensity Score Analysis (PSA) comparing the two treatments using inverse probability of treatment weighting (IPTW) to adjust for confounding. This study used a retrospective new-user cohort design. This is a Type 2 analysis using the Propensity Score Analysis module in the Query Request Package (QRP) documentation.

**Exposures:** We defined the exposures of interest as new use of standard dose dabigatran (150 mg twice daily) or apixaban (5 mg twice daily). The exposure drugs were defined using National Drug Codes (NDCs). Please see Appendix B for a list of generic and brand names of medical products used to define exposures in this request.

<u>Outcomes:</u> We defined the following outcomes of interest. For a list of International Classification of Diseases, Ninth and Tenth Revisions, Clinical Modification (ICD-9-CM and ICD-10-CM) diagnosis codes used to define the outcomes, please see Appendix C.

- 1. We defined stroke and ICH using ICD-9-CM and ICD-10-CM diagnosis codes flagged as a primary diagnosis in an inpatient encounter.
- 2. We defined MEB as:
- a) one ICD-9-CM or ICD-10-CM diagnosis code from "Major Extracranial Bleeding List  $\mathbf{1}^{1}$ " as primary diagnosis from inpatient encounter AND no code from "Major Extracranial Bleeding List  $\mathbf{3}^{2}$ "

OR

- b) one ICD-9-CM or ICD-10-CM diagnosis code from "Major Extracranial Bleeding List 2" as primary diagnosis from inpatient encounter AND one ICD-9-CM or ICD-10-CM diagnosis code from "Major Extracranial Bleeding List 1" as secondary or unspecified diagnosis from inpatient encounter on the same day AND no code from "Major Extracranial Bleeding List 3").
- 3. We defined GIB as:
- a) one ICD-9-CM or ICD-10-CM diagnosis code from "Gastrointestinal Bleeding List 1" as primary diagnosis from inpatient encounter

OR

b) one ICD-9-CM or ICD-10-CM diagnosis code from "Gastrointestinal Bleeding - List 2" as primary diagnosis from inpatient encounter AND one ICD-9-CM or ICD-10-CM diagnosis code from "Gastrointestinal Bleeding - List 1" as secondary or unspecified diagnosis from inpatient encounter on the same day.

cder\_mpl2p\_wp047 Page 1 of 702



#### Overview for Request: cder mpl2p wp047

Cohort Eligibility Criteria: We required patients included in the cohorts to be enrolled in health plans with both medical and drug coverage for at least 183 days prior to the index exposure, during which gaps in coverage of up to 45 days were allowed and treated as continuous enrollment. Cohorts were further restricted to patients under 65 years of age. New use was defined as no use of apixaban or dabigatran at the specified index doses in the 183 days period preceding the index dispensing. We included patients with evidence of atrial fibrillation in the 183 days preceding or on the index date. We excluded patients from the cohort if they had evidence of use of alternative doses of dabigatran or apixaban or if they had any use of rivaroxaban, edoxaban, or warfarin at any dose in the 183 days prior to or on the index date. We also excluded patients from the cohort if they had evidence of dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair in the 183 days prior to and including the index date. Dialysis was only assessed in outpatient care settings. Additionally, we excluded patients from the analysis if they had evidence of an institutional stay encounter on their index date. Inclusion and exclusion criteria were defined using NDCs, ICD-9-CM, ICD-10-CM, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) and Current Procedural Terminology, Fourth Edition (CPT-4) codes. Please see Appendix D for a list of generic and brand names of medical products and Appendix E for a list of diagnosis and procedure codes used used to define inclusion and exclusion criteria in this request.

Follow-up: We determined follow-up time based on the length of the exposure episodes. Specifically, we created exposure episodes using outpatient pharmacy dispensing data. We bridged together exposure episodes less than three days apart and added three days at the end of each exposure episode to create continuous treatment episodes. Overlapping days supply of two dispensings were stockpiled up to 33% of the first dispensings days supply. We censored all exposure episodes upon dispensing of the comparator drug, alternative dose of the index drug, dispensing of rivaroxaban, warfarin or edoxaban, kidney transplant, dialysis, institutional stay encounter, major extracranial bleed, gastrointestinal bleed, intracranial hemorrhage, or ischemic stroke. Follow-up began on the day after exposure initiation and continued until the first occurrence of any of the following: 1) outcome occurrence; 2) requester-defined censoring criteria; 3) disenrollment; 4) recorded death; 5) end of exposure episode; 6) end of query period; or 7) end of available data. Only the first valid exposure episode that occurred during the study period was included per patient. Censoring criteria were defined using NDC, ICD-9-CM, ICD-10-PCS and CPT-4 codes. Please see Appendix F for a list of generic and brand names of medical products and Appendix E for a list of diagnosis and procedure codes used to define censoring criteria in this request.

<u>Baseline Covariates:</u> Please see Appendix G for a list of generic and brand names of medical products and Appendix H for a list of ICD-9-CM and ICD-10-CM diagnosis codes used to define baseline characteristics in this request. Please see Appendix I for evaluation windows used to define baseline characteristics.

<u>Propensity Score Estimation:</u> We fit a logistic regression model to estimate the propensity score (PS) based on the potential confounders outlined in Appendix K. We used the PS to conduct an IPTW analysis. Specifically, after PS estimation and exclusion (i.e. trimming) of patients in non-overlapping regions of the PS distributions, we used the PS to create a stabilized average treatment effect (ATES) weight for each patient.

We initially applied three candidate weight truncation percentile thresholds to deal with potential extreme inverse probability of treatment weights: 0% (no truncation), 1%, and 2.5%. Truncation was operationalized symmetrically, in that weights smaller than the weight at the specified percentile of the weight distribution were re-assigned the value of the weight at the specified percentile of the weight distribution, while Weights larger than the weight at the (100 - specified percentile) of the weight distribution were re-assigned the value of the weight at the (100 - specified percentile) of the weight distribution.

Subgroup analyses for effect estimation included age categories (21-49, 50-64), sex (male, female), CHADSVASC score<sup>2</sup> (0, 1, 2, 3, 4, 5+), and HASBLED score<sup>3</sup> (0, 1, 2, 3+) categories. The CHADSVASC score predicts risk of stroke in patients with atrial fibrillation, while the HASBLED score predicts bleeding risk in patients taking anticoagulants. For IPTW analyses, subgroups were formed out of the post-trimming overall population to ensure only those patients contributing to the overall analysis contributed to a subgroup analysis.

After a review of the distribution of IPT Weights for the three truncation thresholds that was blinded to effect estimates, we decided to apply the 1 percentile truncation threshold to the overall cohort and the sex and age subgroups, and to apply the 2.5 percentile truncation threshold to the CHADVASC and HASBLED subgroups.

cder mpl2p wp047 Page 2 of 702



## Overview for Request: cder\_mpl2p\_wp047

See Appendices J and K for the specifications or parameters used in this request.

<u>Limitations</u>: As with all observational studies, this evaluation was limited in its ability to control for all sources of potential bias. Algorithms used 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.

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

cder\_mpl2p\_wp047 Page 3 of 702

<sup>&</sup>lt;sup>1</sup>Cunningham, A., Stein, C.M., Chung, C.P., Daugherty, J.R., Smalley, W.E. and Ray, W A., 2011. An automated database case definition for serious bleeding related to oral anticoagulant use. Pharmacoepidemiology and drug safety, 20(6), pp.560–566.

<sup>&</sup>lt;sup>2</sup>CHA2DS2-VASc: Lip, G.Y., Nieuwlaat, R., Pisters, R., Lane, D.A. and Crijns, H.J., 2010. Refining clinical risk stratification for predicting stroke and thromboembolism in atrial fibrillation using a novel risk factor-based approach: the euro heart survey on atrial fibrillation. Chest, 137(2), pp.263-272.

<sup>&</sup>lt;sup>3</sup>HAS-BLED: Pisters, R., Lane, D.A., Nieuwlaat, R., De Vos, C.B., Crijns, H.J. and Lip, G.Y., 2010. A novel user-friendly score (HAS-BLED) to assess 1-year risk of major bleeding in patients with atrial fibrillation: the Euro Heart Survey. Chest, 138(5), pp.1093-1100.



- Glossary (CIDA) List of Terms to Define the Cohort Identification and Descriptive Analysis (CIDA) Found in this Report
- **Glossary (PSA)** List of Terms to Define the Propensity Score Analysis (PSA) Found in this Report
  - <u>Table 1a</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
  - <u>Table 1b</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
  - <u>Table 1c</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female
  - <u>Table 1d</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female
  - <u>Table 1e</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male
  - <u>Table 1f</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male
  - **Table 1g** Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49
  - <u>Table 1h</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years
  - <u>Table 1i</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES
    Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64
  - <u>Table 1i</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years
  - <u>Table 1k</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0
  - <u>Table 11</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0
  - <u>Table 1m</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1
  - <u>Table 1n</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1
  - <u>Table 10</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2
  - <u>Table 1p</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2
  - <u>Table 1q</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

cder\_mpl2p\_wp047 Page 4 of 702



- <u>Table 1r</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3
- <u>Table 1s</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4
- <u>Table 1t</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4
- <u>Table 1u</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+
- <u>Table 1v</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+
- <u>Table 1w</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0
- <u>Table 1x</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022,
- <u>Table 1y</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1
- <u>Table 1z</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022,
- <u>Table 1aa</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES
  Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2
- <u>Table 1ab</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022,
- <u>Table 1ac</u> Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+
- <u>Table 1ad</u> Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES
  Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized
  (ATES), Truncation: 2.5%), in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022,
  HASBLED: 3+
- <u>Table 2a</u> Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type
- <u>Table 2b</u> Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Age Group
- <u>Table 2c</u> Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex
- <u>Table 2d</u> Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC
- <u>Table 2e</u> Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED
- <u>Table 3a</u> Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type

cder\_mpl2p\_wp047 Page 5 of 702



- <u>Table 3b</u> Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Age Group
- <u>Table 3c</u> Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex
- <u>Table 3d</u> Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC
- <u>Table 3e</u> Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED
- <u>Table 4a</u> Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type
- <u>Table 4b</u> Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Age Group
- <u>Table 4c</u> Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex
- <u>Table 4d</u> Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC
- <u>Table 4e</u> Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED
- <u>Table 5a</u> Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type
- <u>Table 5b</u> Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Age Group
- <u>Table 5c</u> Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex
- <u>Table 5d</u> Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC
- <u>Table 5e</u> Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED
- <u>Table 6</u> Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 1a</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 1b</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female
- <u>Figure 1c</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male
- <u>Figure 1d</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years
- <u>Figure 1e</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years
- <u>Figure 1f</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0
- Figure 1g Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1
- <u>Figure 1h</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

cder\_mpl2p\_wp047 Page 6 of 702



- <u>Figure 1i</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3
- Figure 1j Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4
- <u>Figure 1k</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%,
  ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+
- <u>Figure 1I</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0
- Figure 1m Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1
- <u>Figure 1n</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2
- <u>Figure 10</u> Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+
- Figure 2a Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2b Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2c Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2d Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2e Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2f Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 2g</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 2h</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 2.5%,
  - ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 2i</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 1%,
  - ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 2i</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%,
  - ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

cder\_mpl2p\_wp047 Page 7 of 702



- <u>Figure 2k</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 1%,
  - ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 21</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%,
  - ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 2m</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 1%, ATES
  - Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- <u>Figure 2n</u> Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES
  - Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2o Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 1%, ATES
  - Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Figure 2p Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022
- Appendix A Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (July 7, 2023)
- Appendix B List of Generic and Brand Names of Medical Products Used to Define Exposures in this Request
- Appendix C List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request
- Appendix D List of Generic and Brand Names of Medical Products Used to Define Inclusion and Exclusion Criteria in this Request
- Appendix E List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request
- Appendix F List of Generic and Brand Names of Medical Products Used to Define Censoring Criteria in this Request
- Appendix G List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

cder\_mpl2p\_wp047 Page 8 of 702



Appendix H
List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes,
Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis
Codes Used to Define Baseline Characteristics in this Request

<u>Appendix I</u> Evaluation Windows Used to Define Baseline Characteristics in this Request

**Appendix J** Specifications Defining Parameters in this Request

Appendix K Specifications for Propensity Score (PS) Models in this Request

cder\_mpl2p\_wp047 Page 9 of 702



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Event Deduplication** - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level). **Exposure Episode Length** - number of days after exposure initiation that is considered "exposed time."

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

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

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

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

cder\_mpl2p\_wp047 Page 10 of 702



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

**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 - i**ndicator 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 wp047 Page 11 of 702



# Glossary of Terms for Analyses Using Propensity Score Analysis (PSA) Module\*

**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

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

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

**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 wp047 Page 12 of 702



Table 1a. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>1,2</sup>	Number/Mean	Deviation <sup>1,2</sup>	Difference	Difference
Unique patients	20,163	100.0%	96,668	100.0%	N/A	N/A
Demographic Characteristics						
Age (years)	56.2	7.3	56.9	7.1	-0.671	-0.093
Age						
21-49 years	3,486	17.3%	14,513	15.0%	2.276	0.062
50-64 years	16,677	82.7%	82,155	85.0%	-2.276	-0.062
Sex						
Female	4,707	23.3%	28,463	29.4%	-6.099	-0.139
Male	15,456	76.7%	68,205	70.6%	6.099	0.139
Race <sup>3</sup>						
American Indian or Alaska Native	4	0.0%	82	0.1%	-0.065	-0.028
Asian	29	0.1%	200	0.2%	-0.063	-0.015
Black or African American	226	1.1%	2,840	2.9%	-1.817	-0.129
Native Hawaiian or Other Pacific Islander	13	0.1%	85	0.1%	-0.023	-0.009
Unknown	17,987	89.2%	77,679	80.4%	8.851	0.248
White	1,871	9.3%	15,389	15.9%	-6.640	-0.201
Hispanic origin						
Yes	51	0.3%	530	0.5%	-0.295	-0.047
No	1,225	6.1%	11,286	11.7%	-5.600	-0.198
Unknown	18,887	93.7%	84,852	87.8%	5.895	0.204
Year						
2010	482	2.4%	0	0.0%	NaN	NaN
2011	6,808	33.8%	0	0.0%	NaN	NaN
2012	4,635	23.0%	0	0.0%	NaN	NaN
2013	2,387	11.8%	1,363	1.4%	10.429	0.429



Table 1a. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>1,2</sup>	Number/Mean	Deviation <sup>1,2</sup>	Difference	Difference	
2014	1,508	7.5%	3,742	3.9%	3.608	0.156	
2015	1,041	5.2%	6,852	7.1%	-1.925	-0.080	
2016	1,285	6.4%	9,522	9.9%	-3.477	-0.128	
2017	865	4.3%	11,508	11.9%	-7.615	-0.282	
2018	557	2.8%	13,206	13.7%	-10.899	-0.405	
2019	302	1.5%	15,130	15.7%	-14.154	-0.522	
2020	168	0.8%	15,505	16.0%	-15.206	-0.569	
2021	105	0.5%	17,566	18.2%	-17.651	-0.636	
2022	20	0.1%	2,274	2.4%	-2.253	-0.206	
CHADVASC							
mean, std	1.5	1.1	1.8	1.3	-0.362	-0.303	
0	4,126	20.5%	14,037	14.5%	5.942	0.157	
1	7,295	36.2%	30,315	31.4%	4.820	0.102	
2	5,418	26.9%	25,770	26.7%	0.213	0.005	
3	2,270	11.3%	15,540	16.1%	-4.817	-0.141	
4	802	4.0%	8,095	8.4%	-4.396	-0.183	
>= 5	252	1.2%	2,911	3.0%	-1.762	-0.122	
HASBLED							
mean, std	0.9	0.7	1.1	0.8	-0.199	-0.264	
0	5,809	28.8%	21,863	22.6%	6.194	0.142	
1	11,455	56.8%	51,632	53.4%	3.400	0.068	
2	2,424	12.0%	17,406	18.0%	-5.984	-0.168	
>= 3	475	2.4%	5,767	6.0%	-3.610	-0.182	
<b>Health Characteristics</b>							
Diabetes	5,065	25.1%	28,482	29.5%	-4.343	-0.098	

cder\_mpl2p\_wp047 Page 14 of 702



Table 1a. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

		Medica	al Product		Covariate Balance	
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>1,2</sup>	Number/Mean	Deviation <sup>1,2</sup>	Difference	Difference
Hypercholesterolemia	5,371	26.6%	26,971	27.9%	-1.263	-0.028
Hypertension	13,717	68.0%	71,702	74.2%	-6.143	-0.136
Kidney failure (chronic)	749	3.7%	7,965	8.2%	-4.525	-0.192
Kidney failure (acute)	663	3.3%	9,210	9.5%	-6.239	-0.257
Obesity	4,564	22.6%	38,625	40.0%	-17.321	-0.380
Peptic ulcer disease	50	0.2%	407	0.4%	-0.173	-0.030
Nicotine dependency	3,305	16.4%	27,621	28.6%	-12.182	-0.295
Hospitalized AMI (past 0-30 days)	225	1.1%	2,648	2.7%	-1.623	-0.118
Hospitalized AMI (past 31-183 days)	97	0.5%	1,352	1.4%	-0.918	-0.095
Coronary revascularization	1,277	6.3%	9,479	9.8%	-3.472	-0.128
Hospitalized heart failure	2,230	11.1%	17,112	17.7%	-6.642	-0.190
Outpatient heart failure	2,387	11.8%	15,973	16.5%	-4.685	-0.135
Other ischemic heart disease	5,070	25.1%	28,007	29.0%	-3.827	-0.086
Hospitalized Thromboembolic Stroke (past 0-30 days)	231	1.1%	1,462	1.5%	-0.367	-0.032
Hospitalized Thromboembolic Stroke (past 31-183 days)	108	0.5%	871	0.9%	-0.365	-0.043
Transient ischemic attack	657	3.3%	3,229	3.3%	-0.082	-0.005
Other medical conditions (falls, fractures, syncope)	1,440	7.1%	9,533	9.9%	-2.720	-0.098
Cardioversion	3,404	16.9%	15,241	15.8%	1.116	0.030
Cardioablation	1,303	6.5%	4,224	4.4%	2.093	0.093
Hospitalized for bleeding	75	0.4%	504	0.5%	-0.149	-0.022
Medical Product Use						
Estrogen replacement	492	2.4%	2,366	2.4%	-0.007	-0.000
H2-antagonist	367	1.8%	2,798	2.9%	-1.074	-0.071
NSAIDs	3,011	14.9%	15,890	16.4%	-1.504	-0.041

Page 15 of 702



Table 1a. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>1,2</sup>	Number/Mean	Deviation <sup>1,2</sup>	Difference	Difference	
Proton pump inhibitors	3,518	17.4%	21,065	21.8%	-4.343	-0.110	
SSRI antidepressants	2,095	10.4%	12,346	12.8%	-2.381	-0.074	
Insulin	1,171	5.8%	7,755	8.0%	-2.215	-0.087	
Metformin (Biguanide)	2,880	14.3%	17,245	17.8%	-3.556	-0.097	
Sulfonylureas	1,227	6.1%	5,197	5.4%	0.709	0.031	
Other diabetes medications	1,339	6.6%	8,633	8.9%	-2.290	-0.086	
ACEI/ARB	9,607	47.6%	49,354	51.1%	-3.408	-0.068	
Antiarrhythmics	7,205	35.7%	27,090	28.0%	7.710	0.166	
Anti-coagulant (injectable)	1,477	7.3%	11,822	12.2%	-4.904	-0.166	
Anti-platelets	1,604	8.0%	12,901	13.3%	-5.391	-0.175	
Beta-blockers	13,654	67.7%	69,965	72.4%	-4.658	-0.102	
Calcium channel blockers	6,964	34.5%	34,619	35.8%	-1.274	-0.027	
Digoxin	2,179	10.8%	5,170	5.3%	5.459	0.201	
Diuretics (loop)	2,987	14.8%	19,376	20.0%	-5.230	-0.138	
Diuretics (potassium sparing)	1,346	6.7%	8,523	8.8%	-2.141	-0.080	
Diuretics (thiazide)	3,971	19.7%	19,871	20.6%	-0.861	-0.021	
Nitrates	881	4.4%	5,863	6.1%	-1.696	-0.076	
Statins	8,214	40.7%	44,236	45.8%	-5.023	-0.102	
Fibrates	1,007	5.0%	3,786	3.9%	1.078	0.052	
Amiodarone	1,789	8.9%	10,448	10.8%	-1.935	-0.065	
Dronedarone	1,469	7.3%	2,144	2.2%	5.068	0.240	
<b>Health Service Utilization Intensity Metrics</b>							
No ED encounters (past 0-30 days)	14,802	73.4%	62,836	65.0%	8.410	0.183	
No ED encounters (past 31-183 days)	17,002	84.3%	75,823	78.4%	5.886	0.152	
At least 1 ED encounter (past 0-30 days)	5,361	26.6%	33,832	35.0%	-8.410	-0.183	
At least 2 ED encounters (past 0-30 days)	972	4.8%	8,122	8.4%	-3.581	-0.145	

Page 16 of 702



Table 1a. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

		Medical Product				
	Dabigatr	an Users	Apixaban Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>1,2</sup>	Number/Mean	Deviation <sup>1,2</sup>	Difference	Difference
At least 1 ED encounter (past 31-183 days)	3,161	15.7%	20,845	21.6%	-5.886	-0.152
At least 2 ED encounters (past 31-183 days)	872	4.3%	7,282	7.5%	-3.208	-0.136

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 17 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1b. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	18,882	N/A	96,132	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	56.6	7.1	56.8	7.2	-0.242	-0.034	
Age							
21-49 years	3,031	16.1%	14,792	15.4%	0.664	0.018	
50-64 years	15,851	83.9%	81,340	84.6%	-0.664	-0.018	
Sex							
Female	5,190	27.5%	27,288	28.4%	-0.899	-0.020	
Male	13,692	72.5%	68,845	71.6%	0.899	0.020	
Race <sup>3</sup>							
American Indian or Alaska Native	4	0.0%	78	0.1%	-0.062	-0.027	
Asian	19	0.1%	209	0.2%	-0.116	-0.029	
Black or African American	267	1.4%	2,656	2.8%	-1.348	-0.099	
Native Hawaiian or Other Pacific Islander	16	0.1%	84	0.1%	-0.003	-0.001	
Unknown	16,678	88.3%	77,715	80.8%	7.484	0.296	
White	1,867	9.9%	15,003	15.6%	-5.718	-0.221	
Hispanic origin							
Yes	52	0.3%	516	0.5%	-0.262	-0.041	
No	1,276	6.8%	10,870	11.3%	-4.551	-0.289	
Unknown	17,554	93.0%	84,746	88.2%	4.813	0.293	
Year							
2010	375	2.0%	0	0.0%	NaN	NaN	
2011	5,640	29.9%	0	0.0%	NaN	NaN	
2012	4,061	21.5%	0	0.0%	NaN	NaN	
2013	2,193	11.6%	1,511	1.6%	10.042	0.413	



Table 1b. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	1,478	7.8%	4,057	4.2%	3.608	0.152	
2015	1,068	5.7%	7,248	7.5%	-1.884	-0.076	
2016	1,493	7.9%	9,693	10.1%	-2.175	-0.076	
2017	1,056	5.6%	11,558	12.0%	-6.431	-0.228	
2018	725	3.8%	13,092	13.6%	-9.778	-0.352	
2019	391	2.1%	14,770	15.4%	-13.295	-0.485	
2020	226	1.2%	15,062	15.7%	-14.471	-0.540	
2021	146	0.8%	16,955	17.6%	-16.863	-0.611	
2022	29	0.2%	2,185	2.3%	-2.119	-0.195	
CHADVASC							
mean, std	1.6	1.2	1.8	1.2	-0.116	-0.095	
0	3,203	17.0%	14,873	15.5%	1.490	0.041	
1	6,425	34.0%	30,971	32.2%	1.809	0.039	
2	5,119	27.1%	25,749	26.8%	0.326	0.007	
3	2,610	13.8%	14,712	15.3%	-1.480	-0.042	
4	1,151	6.1%	7,320	7.6%	-1.522	-0.061	
>= 5	375	2.0%	2,507	2.6%	-0.623	-0.042	
HASBLED							
mean, std	1.0	0.8	1.0	0.8	-0.060	-0.077	
0	4,838	25.6%	22,706	23.6%	2.004	0.047	
1	10,323	54.7%	52,039	54.1%	0.536	0.011	
2	2,934	15.5%	16,333	17.0%	-1.451	-0.039	
>= 3	787	4.2%	5,054	5.3%	-1.089	-0.052	
Health Characteristics							
Diabetes	4,936	26.1%	27,609	28.7%	-2.579	-0.058	



Table 1b. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

			Covariate Balance			
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	4,968	26.3%	26,543	27.6%	-1.300	-0.029
Hypertension	13,450	71.2%	70,338	73.2%	-1.937	-0.044
Kidney failure (chronic)	1,122	5.9%	7,063	7.3%	-1.403	-0.057
Kidney failure (acute)	1,122	5.9%	7,923	8.2%	-2.298	-0.090
Obesity	6,389	33.8%	35,462	36.9%	-3.052	-0.064
Peptic ulcer disease	63	0.3%	375	0.4%	-0.058	-0.010
Nicotine dependency	4,401	23.3%	25,342	26.4%	-3.056	-0.072
Hospitalized AMI (past 0-30 days)	333	1.8%	2,323	2.4%	-0.653	-0.046
Hospitalized AMI (past 31-183 days)	165	0.9%	1,160	1.2%	-0.334	-0.033
Coronary revascularization	1,476	7.8%	8,760	9.1%	-1.298	-0.047
Hospitalized heart failure	2,663	14.1%	15,835	16.5%	-2.367	-0.066
Outpatient heart failure	2,613	13.8%	15,101	15.7%	-1.869	-0.054
Other ischemic heart disease	5,031	26.6%	27,202	28.3%	-1.651	-0.037
Hospitalized Thromboembolic Stroke (past 0-30						
days)	279	1.5%	1,388	1.4%	0.033	0.003
Hospitalized Thromboembolic Stroke (past 31-183						
days)	157	0.8%	811	0.8%	-0.013	-0.001
Transient ischemic attack	646	3.4%	3,215	3.3%	0.080	0.004
Other medical conditions (falls, fractures, syncope)	1,650	8.7%	9,006	9.4%	-0.632	-0.022
Cardioversion	3,041	16.1%	15,347	16.0%	0.142	0.004
Cardioablation	907	4.8%	4,546	4.7%	0.076	0.004
Hospitalized for bleeding	84	0.4%	474	0.5%	-0.049	-0.007
Medical Product Use						
Estrogen replacement	463	2.5%	2,354	2.4%	0.003	0.000
H2-antagonist	421	2.2%	2,635	2.7%	-0.513	-0.033
NSAIDs	2,980	15.8%	15,596	16.2%	-0.438	-0.012

Page 20 of 702



Table 1b. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Proton pump inhibitors	3,750	19.9%	20,250	21.1%	-1.203	-0.030	
SSRI antidepressants	2,201	11.7%	11,923	12.4%	-0.745	-0.023	
Insulin	1,230	6.5%	7,349	7.6%	-1.132	-0.045	
Metformin (Biguanide)	2,925	15.5%	16,542	17.2%	-1.717	-0.047	
Sulfonylureas	993	5.3%	5,315	5.5%	-0.269	-0.012	
Other diabetes medications	1,408	7.5%	8,147	8.5%	-1.019	-0.038	
ACEI/ARB	9,308	49.3%	48,563	50.5%	-1.220	-0.025	
Antiarrhythmics	5,700	30.2%	28,236	29.4%	0.816	0.018	
Anti-coagulant (injectable)	1,833	9.7%	10,955	11.4%	-1.687	-0.056	
Anti-platelets	2,042	10.8%	11,837	12.3%	-1.500	-0.047	
Beta-blockers	13,251	70.2%	68,782	71.5%	-1.373	-0.030	
Calcium channel blockers	6,606	35.0%	34,232	35.6%	-0.625	-0.013	
Digoxin	1,261	6.7%	6,079	6.3%	0.355	0.014	
Diuretics (loop)	3,218	17.0%	18,424	19.2%	-2.124	-0.056	
Diuretics (potassium sparing)	1,410	7.5%	8,110	8.4%	-0.966	-0.036	
Diuretics (thiazide)	3,763	19.9%	19,640	20.4%	-0.503	-0.013	
Nitrates	943	5.0%	5,533	5.8%	-0.759	-0.034	
Statins	8,014	42.4%	43,115	44.8%	-2.406	-0.049	
Fibrates	774	4.1%	3,968	4.1%	-0.031	-0.002	
Amiodarone	1,864	9.9%	10,071	10.5%	-0.602	-0.020	
Dronedarone	664	3.5%	2,933	3.1%	0.463	0.026	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	12,743	67.5%	64,238	66.8%	0.666	0.015	
No ED encounters (past 31-183 days)	15,247	80.7%	76,434	79.5%	1.238	0.032	
At least 1 ED encounter (past 0-30 days)	6,139	32.5%	31,894	33.2%	-0.666	-0.015	

cder\_mpl2p\_wp047 Page 21 of 702



Table 1b. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixaban Users				
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
At least 2 ED encounters (past 0-30 days)	1,322	7.0%	7,317	7.6%	-0.609	-0.024	
At least 1 ED encounter (past 31-183 days)	3,635	19.3%	19,698	20.5%	-1.238	-0.032	
At least 2 ED encounters (past 31-183 days)	1,152	6.1%	6,633	6.9%	-0.797	-0.033	

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 22 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1c. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	4,706	100.0%	28,211	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	57.4	6.6	57.7	6.5	-0.295	-0.045	
Age							
21-49 years	590	12.5%	3,300	11.7%	0.840	0.026	
50-64 years	4,116	87.5%	24,911	88.3%	-0.840	-0.026	
Sex							
Female	4,706	100.0%	28,211	100.0%	0.000	NaN	
Male	0	0.0%	0	0.0%	NaN	NaN	
Race <sup>3</sup>							
American Indian or Alaska Native	1	0.0%	37	0.1%	-0.110	-0.040	
Asian	8	0.2%	58	0.2%	-0.036	-0.008	
Black or African American	92	2.0%	1,179	4.2%	-2.224	-0.129	
Native Hawaiian or Other Pacific Islander	2	0.0%	29	0.1%	-0.060	-0.022	
Unknown	4,096	87.0%	21,896	77.6%	9.423	0.249	
White	500	10.6%	4,908	17.4%	-6.773	-0.196	
Hispanic origin							
Yes	11	0.2%	146	0.5%	-0.284	-0.046	
No	412	8.8%	4,070	14.4%	-5.672	-0.178	
Unknown	4,283	91.0%	23,995	85.1%	5.956	0.184	
Year							
2010	90	1.9%	0	0.0%	NaN	NaN	
2011	1,537	32.7%	0	0.0%	NaN	NaN	
2012	1,033	22.0%	0	0.0%	NaN	NaN	
2013	530	11.3%	345	1.2%	10.041	0.424	



Table 1c. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	349	7.4%	1,024	3.7%	3.765	0.165	
2015	261	5.6%	1,974	7.1%	-1.501	-0.062	
2016	349	7.4%	2,794	10.0%	-2.559	-0.091	
2017	251	5.3%	3,386	12.1%	-6.759	-0.241	
2018	143	3.0%	3,940	14.1%	-11.036	-0.402	
2019	79	1.7%	4,306	15.4%	-13.705	-0.506	
2020	48	1.0%	4,431	15.8%	-14.811	-0.553	
2021	27	0.6%	5,141	18.4%	-17.795	-0.638	
2022	4	0.1%	646	2.3%	-2.223	-0.206	
CHADVASC							
mean, std	2.3	1.1	2.5	1.2	-0.205	-0.181	
0	0	0.0%	0	0.0%	NaN	NaN	
1	1,098	23.3%	5,907	20.9%	2.393	0.058	
2	1,918	40.8%	10,556	37.4%	3.338	0.068	
3	1,081	23.0%	5,880	20.8%	2.128	0.051	
4	424	9.0%	3,843	13.6%	-4.613	-0.146	
>= 5	185	3.9%	2,025	7.2%	-3.247	-0.142	
HASBLED							
mean, std	0.9	0.7	1.1	0.8	-0.134	-0.177	
0	1,207	25.6%	6,375	22.6%	3.051	0.071	
1	2,694	57.2%	14,983	53.1%	4.136	0.083	
2	670	14.2%	5,250	18.6%	-4.373	-0.118	
>= 3	135	2.9%	1,603	5.7%	-2.814	-0.139	
Health Characteristics							
Diabetes	1,271	27.0%	8,257	29.3%	-2.261	-0.050	



Table 1c. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

		Medica	l Product		Covaria	te Balance
	Dabigatı	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	1,147	24.4%	7,311	25.9%	-1.542	-0.036
Hypertension	3,314	70.4%	20,794	73.7%	-3.288	-0.073
Kidney failure (chronic)	195	4.1%	1,975	7.0%	-2.857	-0.125
Kidney failure (acute)	145	3.1%	2,095	7.4%	-4.345	-0.196
Obesity	1,323	28.1%	12,491	44.3%	-16.164	-0.341
Peptic ulcer disease	20	0.4%	141	0.5%	-0.075	-0.011
Nicotine dependency	758	16.1%	7,566	26.8%	-10.712	-0.263
Hospitalized AMI (past 0-30 days)	50	1.1%	582	2.1%	-1.001	-0.081
Hospitalized AMI (past 31-183 days)	23	0.5%	338	1.2%	-0.709	-0.078
Coronary revascularization	161	3.4%	1,687	6.0%	-2.559	-0.121
Hospitalized heart failure	538	11.4%	4,552	16.1%	-4.703	-0.137
Outpatient heart failure	522	11.1%	4,222	15.0%	-3.874	-0.115
Other ischemic heart disease	929	19.7%	6,485	23.0%	-3.247	-0.079
Hospitalized Thromboembolic Stroke (past 0-30 days)	69	1.5%	482	1.7%	-0.242	-0.019
Hospitalized Thromboembolic Stroke (past 31-183 days)	38	0.8%	290	1.0%	-0.220	-0.023
Transient ischemic attack	202	4.3%	1,156	4.1%	0.195	0.010
Other medical conditions (falls, fractures, syncope)	444	9.4%	3,197	11.3%	-1.898	-0.062
Cardioversion	623	13.2%	3,311	11.7%	1.502	0.045
Cardioablation	293	6.2%	1,160	4.1%	2.114	0.096
Hospitalized for bleeding	26	0.6%	171	0.6%	-0.054	-0.007
Medical Product Use						
Estrogen replacement	490	10.4%	2,346	8.3%	2.096	0.072
H2-antagonist	121	2.6%	1,070	3.8%	-1.222	-0.070
NSAIDs	857	18.2%	5,550	19.7%	-1.462	-0.037

cder\_mpl2p\_wp047 Page 25 of 702



Table 1c. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

		Medica	l Product		Covaria	te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	1,060	22.5%	7,371	26.1%	-3.604	-0.084
SSRI antidepressants	856	18.2%	5,687	20.2%	-1.969	-0.050
Insulin	318	6.8%	2,358	8.4%	-1.601	-0.061
Metformin (Biguanide)	705	15.0%	4,815	17.1%	-2.087	-0.057
Sulfonylureas	270	5.7%	1,364	4.8%	0.902	0.040
Other diabetes medications	349	7.4%	2,443	8.7%	-1.244	-0.046
ACEI/ARB	2,123	45.1%	12,914	45.8%	-0.664	-0.013
Antiarrhythmics	1,800	38.2%	7,956	28.2%	10.047	0.215
Anti-coagulant (injectable)	343	7.3%	3,631	12.9%	-5.582	-0.186
Anti-platelets	301	6.4%	2,973	10.5%	-4.142	-0.149
Beta-blockers	3,173	67.4%	20,194	71.6%	-4.157	-0.090
Calcium channel blockers	1,781	37.8%	10,363	36.7%	1.111	0.023
Digoxin	511	10.9%	1,386	4.9%	5.946	0.222
Diuretics (loop)	839	17.8%	5,896	20.9%	-3.071	-0.078
Diuretics (potassium sparing)	373	7.9%	2,732	9.7%	-1.758	-0.062
Diuretics (thiazide)	1,141	24.2%	6,710	23.8%	0.461	0.011
Nitrates	190	4.0%	1,452	5.1%	-1.110	-0.053
Statins	1,675	35.6%	11,289	40.0%	-4.423	-0.091
Fibrates	167	3.5%	749	2.7%	0.894	0.052
Amiodarone	351	7.5%	2,429	8.6%	-1.152	-0.042
Dronedarone	372	7.9%	637	2.3%	5.647	0.259
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	3,286	69.8%	17,610	62.4%	7.403	0.157
No ED encounters (past 31-183 days)	3,761	79.9%	21,089	74.8%	5.165	0.124
At least 1 ED encounter (past 0-30 days)	1,420	30.2%	10,601	37.6%	-7.403	-0.157

cder\_mpl2p\_wp047



Table 1c. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

		Medical Product				
	Dabigatr	an Users	Apixaban Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	260	5.5%	2,644	9.4%	-3.847	-0.147
At least 1 ED encounter (past 31-183 days)	945	20.1%	7,122	25.2%	-5.165	-0.124
At least 2 ED encounters (past 31-183 days)	284	6.0%	2,654	9.4%	-3.373	-0.127

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 27 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1d. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

		Medical Product				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Weighted patients	4,394	N/A	27,965	N/A	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	57.6	6.5	57.7	6.6	-0.139	-0.021
Age						
21-49 years	542	12.3%	3,294	11.8%	0.548	0.017
50-64 years	3,852	87.7%	24,671	88.2%	-0.548	-0.017
Sex						
Female	4,394	100.0%	27,965	100.0%	0.000	NaN
Male	0	0.0%	0	0.0%	NaN	NaN
Race <sup>3</sup>						
American Indian or Alaska Native	0	0.0%	33	0.1%	-0.108	-0.043
Asian	5	0.1%	62	0.2%	-0.108	-0.026
Black or African American	101	2.3%	1,121	4.0%	-1.717	-0.105
Native Hawaiian or Other Pacific Islander	2	0.0%	28	0.1%	-0.058	-0.022
Unknown	3,804	86.6%	21,839	78.1%	8.483	0.337
White	476	10.8%	4,779	17.1%	-6.251	-0.236
Hispanic origin						
Yes	10	0.2%	142	0.5%	-0.288	-0.048
No	392	8.9%	3,914	14.0%	-5.070	-0.319
Unknown	3,992	90.9%	23,909	85.5%	5.359	0.325
Year						
2010	64	1.5%	0	0.0%	NaN	NaN
2011	1,254	28.5%	0	0.0%	NaN	NaN
2012	880	20.0%	0	0.0%	NaN	NaN



Table 1d. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

		Medical Product				Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	494	11.2%	375	1.3%	9.893	0.416	
2014	336	7.6%	1,105	4.0%	3.685	0.158	
2015	262	6.0%	2,073	7.4%	-1.445	-0.058	
2016	399	9.1%	2,846	10.2%	-1.092	-0.037	
2017	311	7.1%	3,402	12.2%	-5.082	-0.173	
2018	184	4.2%	3,926	14.0%	-9.844	-0.347	
2019	99	2.2%	4,253	15.2%	-12.959	-0.472	
2020	68	1.5%	4,345	15.5%	-13.996	-0.517	
2021	37	0.8%	5,015	17.9%	-17.098	-0.615	
2022	5	0.1%	625	2.2%	-2.109	-0.197	
CHADVASC							
mean, std	2.4	1.1	2.5	1.2	-0.092	-0.080	
0	0	0.0%	0	0.0%	NaN	NaN	
1	998	22.7%	5,949	21.3%	1.441	0.035	
2	1,741	39.6%	10,632	38.0%	1.595	0.033	
3	909	20.7%	5,924	21.2%	-0.491	-0.012	
4	510	11.6%	3,612	12.9%	-1.309	-0.040	
>= 5	236	5.4%	1,848	6.6%	-1.236	-0.053	
HASBLED							
mean, std	1.0	0.8	1.1	0.8	-0.051	-0.066	
0	1,092	24.8%	6,439	23.0%	1.825	0.043	
1	2,377	54.1%	15,043	53.8%	0.302	0.006	
2	736	16.8%	5,018	17.9%	-1.185	-0.031	
>= 3	189	4.3%	1,465	5.2%	-0.942	-0.044	



Table 1d. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

	Medical Product				Covariate Balance	
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	1,182	26.9%	8,083	28.9%	-2.013	-0.045
Hypercholesterolemia	1,052	23.9%	7,170	25.6%	-1.692	-0.039
Hypertension	3,132	71.3%	20,481	73.2%	-1.951	-0.044
Kidney failure (chronic)	242	5.5%	1,837	6.6%	-1.056	-0.045
Kidney failure (acute)	223	5.1%	1,864	6.7%	-1.595	-0.068
Obesity	1,702	38.7%	11,711	41.9%	-3.135	-0.064
Peptic ulcer disease	17	0.4%	135	0.5%	-0.094	-0.014
Nicotine dependency	980	22.3%	7,020	25.1%	-2.806	-0.067
Hospitalized AMI (past 0-30 days)	62	1.4%	522	1.9%	-0.456	-0.036
Hospitalized AMI (past 31-183 days)	34	0.8%	276	1.0%	-0.205	-0.022
Coronary revascularization	203	4.6%	1,539	5.5%	-0.890	-0.041
Hospitalized heart failure	581	13.2%	4,289	15.3%	-2.125	-0.061
Outpatient heart failure	541	12.3%	3,995	14.3%	-1.972	-0.059
Other ischemic heart disease	929	21.1%	6,272	22.4%	-1.287	-0.031
Hospitalized Thromboembolic Stroke (past 0-30 days)	76	1.7%	466	1.7%	0.064	0.005
Hospitalized Thromboembolic Stroke (past 31-183 days)	53	1.2%	280	1.0%	0.203	0.019
Transient ischemic attack	185	4.2%	1,157	4.1%	0.072	0.004
Other medical conditions (falls, fractures, syncope)	469	10.7%	3,090	11.0%	-0.383	-0.012
Cardioversion	537	12.2%	3,353	12.0%	0.231	0.007
Cardioablation	201	4.6%	1,249	4.5%	0.112	0.005
Hospitalized for bleeding	30	0.7%	167	0.6%	0.090	0.011

cder\_mpl2p\_wp047



Table 1d. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

		Medica	l Product		Covariate Balance	
	Dabigatr	an Users	Apixab	an Users		
Patient Characteristics <sup>1</sup>	Number/Mean	Percent/Standard Deviation <sup>2</sup>	Number/Mean	Percent/Standard  Deviation <sup>2</sup>	Absolute Difference	Standardized Difference
	ivaniber/iviean	Deviation	Number/Weam	Deviation	Difference	Difference
Medical Product Use	391	8.9%	2.442	0.00/	0.272	0.010
Estrogen replacement			2,413	8.6%	0.273	0.010
H2-antagonist	135	3.1%	1,008	3.6%	-0.540	-0.030
NSAIDs	829	18.9%	5,455	19.5%	-0.633	-0.016
Proton pump inhibitors	1,074	24.4%	7,171	25.6%	-1.193	-0.028
SSRI antidepressants	813	18.5%	5,560	19.9%	-1.383	-0.035
Insulin	307	7.0%	2,269	8.1%	-1.128	-0.043
Metformin (Biguanide)	672	15.3%	4,670	16.7%	-1.397	-0.038
Sulfonylureas	210	4.8%	1,387	5.0%	-0.186	-0.009
Other diabetes medications	331	7.5%	2,357	8.4%	-0.894	-0.033
ACEI/ARB	1,968	44.8%	12,777	45.7%	-0.905	-0.018
Antiarrhythmics	1,347	30.7%	8,268	29.6%	1.099	0.024
Anti-coagulant (injectable)	437	9.9%	3,348	12.0%	-2.032	-0.066
Anti-platelets	388	8.8%	2,761	9.9%	-1.039	-0.036
Beta-blockers	3,072	69.9%	19,848	71.0%	-1.052	-0.023
Calcium channel blockers	1,595	36.3%	10,331	36.9%	-0.641	-0.013
Digoxin	271	6.2%	1,619	5.8%	0.373	0.016
Diuretics (loop)	813	18.5%	5,719	20.4%	-1.940	-0.050
Diuretics (potassium sparing)	368	8.4%	2,614	9.3%	-0.973	-0.034
Diuretics (thiazide)	1,029	23.4%	6,680	23.9%	-0.468	-0.011
Nitrates	183	4.2%	1,391	5.0%	-0.807	-0.039
Statins	1,632	37.2%	11,003	39.3%	-2.194	-0.046
Fibrates	122	2.8%	774	2.8%	0.002	0.000
Amiodarone	345	7.8%	2,332	8.3%	-0.495	-0.018

cder\_mpl2p\_wp047 Page 31 of 702



Table 1d. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female

	Medical Product				Covaria	te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	155	3.5%	839	3.0%	0.521	0.029
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	2,823	64.2%	17,853	63.8%	0.395	0.009
No ED encounters (past 31-183 days)	3,381	76.9%	21,141	75.6%	1.353	0.032
At least 1 ED encounter (past 0-30 days)	1,571	35.8%	10,112	36.2%	-0.395	-0.009
At least 2 ED encounters (past 0-30 days)	339	7.7%	2,407	8.6%	-0.883	-0.033
At least 1 ED encounter (past 31-183 days)	1,013	23.1%	6,824	24.4%	-1.353	-0.032
At least 2 ED encounters (past 31-183 days)	341	7.8%	2,475	8.8%	-1.082	-0.040

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 32 of 702

 $<sup>^2\</sup>mbox{\sc Value}$  represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1e. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

		Medica	l Product		Covaria	te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Unique patients	15,453	100.0%	67,989	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	55.9	7.5	56.5	7.3	-0.676	-0.091
Age						
21-49 years	2,894	18.7%	11,185	16.5%	2.277	0.060
50-64 years	12,559	81.3%	56,804	83.5%	-2.277	-0.060
Sex						
Female	0	0.0%	0	0.0%	NaN	NaN
Male	15,453	100.0%	67,989	100.0%	0.000	NaN
Race <sup>3</sup>						
American Indian or Alaska Native	3	0.0%	42	0.1%	-0.042	-0.021
Asian	21	0.1%	142	0.2%	-0.073	-0.018
Black or African American	134	0.9%	1,588	2.3%	-1.469	-0.117
Native Hawaiian or Other Pacific Islander	11	0.1%	56	0.1%	-0.011	-0.004
Unknown	13,889	89.9%	55,613	81.8%	8.082	0.233
White	1,369	8.9%	10,262	15.1%	-6.234	-0.193
Hispanic origin						
Yes	40	0.3%	382	0.6%	-0.303	-0.047
No	811	5.2%	6,987	10.3%	-5.028	-0.189
Unknown	14,602	94.5%	60,620	89.2%	5.331	0.196
Year						
2010	392	2.5%	0	0.0%	NaN	NaN
2011	5,268	34.1%	0	0.0%	NaN	NaN
2012	3,600	23.3%	0	0.0%	NaN	NaN
2013	1,856	12.0%	1,018	1.5%	10.513	0.428



Table 1e. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

		Medical Product				te Balance
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	1,158	7.5%	2,709	4.0%	3.509	0.151
2015	780	5.0%	4,868	7.2%	-2.112	-0.088
2016	936	6.1%	6,688	9.8%	-3.780	-0.140
2017	614	4.0%	8,066	11.9%	-7.890	-0.295
2018	412	2.7%	9,193	13.5%	-10.855	-0.406
2019	223	1.4%	10,685	15.7%	-14.273	-0.527
2020	120	0.8%	10,923	16.1%	-15.289	-0.573
2021	78	0.5%	12,243	18.0%	-17.503	-0.633
2022	16	0.1%	1,596	2.3%	-2.244	-0.205
CHADVASC						
mean, std	1.2	1.0	1.5	1.2	-0.320	-0.290
0	4,125	26.7%	14,037	20.6%	6.048	0.143
1	6,195	40.1%	24,403	35.9%	4.197	0.087
2	3,499	22.6%	15,187	22.3%	0.305	0.007
3	1,189	7.7%	9,553	14.1%	-6.357	-0.205
4	378	2.4%	4,096	6.0%	-3.578	-0.178
>= 5	67	0.4%	713	1.0%	-0.615	-0.072
HASBLED						
mean, std	0.9	0.7	1.1	0.8	-0.211	-0.280
0	4,602	29.8%	15,487	22.8%	7.002	0.160
1	8,757	56.7%	36,574	53.8%	2.875	0.058
2	1,754	11.4%	11,966	17.6%	-6.249	-0.178
>= 3	340	2.2%	3,962	5.8%	-3.627	-0.186
<b>Health Characteristics</b>						
Diabetes	3,794	24.6%	19,908	29.3%	-4.729	-0.107



Table 1e. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

		Medica	l Product		Covaria	te Balance
	Dabigatı	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	4,223	27.3%	19,455	28.6%	-1.287	-0.029
Hypertension	10,400	67.3%	50,448	74.2%	-6.899	-0.152
Kidney failure (chronic)	554	3.6%	5,708	8.4%	-4.810	-0.204
Kidney failure (acute)	518	3.4%	6,744	9.9%	-6.567	-0.266
Obesity	3,241	21.0%	25,724	37.8%	-16.862	-0.377
Peptic ulcer disease	30	0.2%	256	0.4%	-0.182	-0.034
Nicotine dependency	2,545	16.5%	19,651	28.9%	-12.434	-0.300
Hospitalized AMI (past 0-30 days)	175	1.1%	1,987	2.9%	-1.790	-0.127
Hospitalized AMI (past 31-183 days)	74	0.5%	948	1.4%	-0.915	-0.095
Coronary revascularization	1,115	7.2%	7,576	11.1%	-3.928	-0.136
Hospitalized heart failure	1,691	10.9%	12,218	18.0%	-7.028	-0.201
Outpatient heart failure	1,865	12.1%	11,459	16.9%	-4.785	-0.136
Other ischemic heart disease	4,140	26.8%	21,178	31.1%	-4.358	-0.096
Hospitalized Thromboembolic Stroke (past 0-30 days)	162	1.0%	961	1.4%	-0.365	-0.033
Hospitalized Thromboembolic Stroke (past 31-183 days)	70	0.5%	572	0.8%	-0.388	-0.048
Transient ischemic attack	455	2.9%	2,065	3.0%	-0.093	-0.005
Other medical conditions (falls, fractures, syncope)	993	6.4%	6,212	9.1%	-2.711	-0.101
Cardioversion	2,777	18.0%	11,887	17.5%	0.487	0.013
Cardioablation	1,007	6.5%	3,057	4.5%	2.020	0.089
Hospitalized for bleeding	49	0.3%	326	0.5%	-0.162	-0.026
Medical Product Use						
Estrogen replacement	2	0.0%	14	0.0%	-0.008	-0.006
H2-antagonist	246	1.6%	1,675	2.5%	-0.872	-0.062
NSAIDs	2,153	13.9%	10,248	15.1%	-1.140	-0.032

Page 35 of 702



Table 1e. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Proton pump inhibitors	2,456	15.9%	13,437	19.8%	-3.870	-0.101	
SSRI antidepressants	1,238	8.0%	6,524	9.6%	-1.584	-0.056	
Insulin	853	5.5%	5,268	7.7%	-2.228	-0.090	
Metformin (Biguanide)	2,175	14.1%	12,247	18.0%	-3.938	-0.107	
Sulfonylureas	957	6.2%	3,810	5.6%	0.589	0.025	
Other diabetes medications	990	6.4%	6,054	8.9%	-2.498	-0.094	
ACEI/ARB	7,481	48.4%	36,127	53.1%	-4.725	-0.095	
Antiarrhythmics	5,401	35.0%	19,017	28.0%	6.980	0.151	
Anti-coagulant (injectable)	1,132	7.3%	7,962	11.7%	-4.385	-0.150	
Anti-platelets	1,302	8.4%	9,687	14.2%	-5.822	-0.184	
Beta-blockers	10,477	67.8%	49,344	72.6%	-4.777	-0.105	
Calcium channel blockers	5,182	33.5%	24,070	35.4%	-1.869	-0.039	
Digoxin	1,664	10.8%	3,783	5.6%	5.204	0.191	
Diuretics (loop)	2,146	13.9%	13,191	19.4%	-5.514	-0.148	
Diuretics (potassium sparing)	973	6.3%	5,674	8.3%	-2.049	-0.079	
Diuretics (thiazide)	2,828	18.3%	13,050	19.2%	-0.894	-0.023	
Nitrates	691	4.5%	4,280	6.3%	-1.824	-0.081	
Statins	6,537	42.3%	32,565	47.9%	-5.595	-0.113	
Fibrates	840	5.4%	3,028	4.5%	0.982	0.045	
Amiodarone	1,437	9.3%	7,917	11.6%	-2.345	-0.077	
Dronedarone	1,096	7.1%	1,506	2.2%	4.877	0.233	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	11,512	74.5%	45,110	66.3%	8.148	0.179	
No ED encounters (past 31-183 days)	13,241	85.7%	54,572	80.3%	5.420	0.145	
At least 1 ED encounter (past 0-30 days)	3,941	25.5%	22,879	33.7%	-8.148	-0.179	

cder\_mpl2p\_wp047



Table 1e. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

		Covariate Balance				
	Dabigatr	an Users	Apixaban Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	712	4.6%	5,269	7.7%	-3.142	-0.131
At least 1 ED encounter (past 31-183 days)	2,212	14.3%	13,417	19.7%	-5.420	-0.145
At least 2 ED encounters (past 31-183 days)	587	3.8%	4,413	6.5%	-2.692	-0.122

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 37 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1f. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	14,465	N/A	67,595	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	56.2	7.3	56.4	7.4	-0.264	-0.036	
Age							
21-49 years	2,532	17.5%	11,402	16.9%	0.637	0.017	
50-64 years	11,933	82.5%	56,193	83.1%	-0.637	-0.017	
Sex							
Female	0	0.0%	0	0.0%	NaN	NaN	
Male	14,465	100.0%	67,595	100.0%	0.000	NaN	
Race <sup>3</sup>							
American Indian or Alaska Native	4	0.0%	43	0.1%	-0.039	-0.019	
Asian	14	0.1%	145	0.2%	-0.118	-0.030	
Black or African American	161	1.1%	1,474	2.2%	-1.065	-0.087	
Native Hawaiian or Other Pacific Islander	15	0.1%	56	0.1%	0.020	0.007	
Unknown	12,855	88.9%	55,602	82.3%	6.615	0.262	
White	1,390	9.6%	9,993	14.8%	-5.172	-0.202	
Hispanic origin							
Yes	44	0.3%	370	0.5%	-0.244	-0.038	
No	878	6.1%	6,690	9.9%	-3.827	-0.246	
Unknown	13,543	93.6%	60,536	89.6%	4.071	0.249	
Year							
2010	319	2.2%	0	0.0%	NaN	NaN	
2011	4,372	30.2%	0	0.0%	NaN	NaN	
2012	3,188	22.0%	0	0.0%	NaN	NaN	
2013	1,710	11.8%	1,137	1.7%	10.138	0.413	



Table 1f. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

		Medical Product					
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	1,125	7.8%	2,944	4.4%	3.423	0.144	
2015	804	5.6%	5,159	7.6%	-2.072	-0.084	
2016	1,089	7.5%	6,807	10.1%	-2.543	-0.090	
2017	739	5.1%	8,105	12.0%	-6.883	-0.248	
2018	539	3.7%	9,077	13.4%	-9.706	-0.352	
2019	289	2.0%	10,401	15.4%	-13.389	-0.489	
2020	159	1.1%	10,596	15.7%	-14.577	-0.545	
2021	108	0.7%	11,827	17.5%	-16.751	-0.609	
2022	25	0.2%	1,542	2.3%	-2.111	-0.193	
CHADVASC							
mean, std	1.4	1.1	1.5	1.2	-0.107	-0.095	
0	3,396	23.5%	14,653	21.7%	1.802	0.043	
1	5,565	38.5%	24,838	36.7%	1.725	0.036	
2	3,236	22.4%	15,187	22.5%	-0.096	-0.002	
3	1,588	11.0%	8,706	12.9%	-1.903	-0.059	
4	576	4.0%	3,594	5.3%	-1.335	-0.064	
>= 5	104	0.7%	618	0.9%	-0.194	-0.022	
HASBLED							
mean, std	1.0	0.8	1.0	0.8	-0.062	-0.080	
0	3,775	26.1%	16,231	24.0%	2.082	0.048	
1	7,963	55.0%	36,828	54.5%	0.562	0.011	
2	2,154	14.9%	11,107	16.4%	-1.543	-0.043	
>= 3	574	4.0%	3,429	5.1%	-1.101	-0.053	
Health Characteristics							
Diabetes	3,723	25.7%	19,202	28.4%	-2.668	-0.061	

Page 39 of 702



Table 1f. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

			Covariate Balance			
	Dabigati	ran Users	Apixaba	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	3,934	27.2%	19,164	28.4%	-1.154	-0.026
Hypertension	10,270	71.0%	49,328	73.0%	-1.977	-0.044
Kidney failure (chronic)	855	5.9%	4,995	7.4%	-1.477	-0.060
Kidney failure (acute)	898	6.2%	5,761	8.5%	-2.311	-0.089
Obesity	4,613	31.9%	23,427	34.7%	-2.765	-0.059
Peptic ulcer disease	40	0.3%	219	0.3%	-0.045	-0.008
Nicotine dependency	3,406	23.5%	17,927	26.5%	-2.975	-0.069
Hospitalized AMI (past 0-30 days)	269	1.9%	1,718	2.5%	-0.686	-0.047
Hospitalized AMI (past 31-183 days)	131	0.9%	816	1.2%	-0.301	-0.030
Coronary revascularization	1,301	9.0%	7,011	10.4%	-1.381	-0.047
Hospitalized heart failure	2,080	14.4%	11,237	16.6%	-2.244	-0.062
Outpatient heart failure	2,094	14.5%	10,829	16.0%	-1.544	-0.044
Other ischemic heart disease	4,143	28.6%	20,533	30.4%	-1.737	-0.038
Hospitalized Thromboembolic Stroke (past 0-30 days)	195	1.3%	899	1.3%	0.019	0.002
Hospitalized Thromboembolic Stroke (past 31-183 days)	99	0.7%	516	0.8%	-0.080	-0.009
Transient ischemic attack	454	3.1%	2,044	3.0%	0.113	0.007
Other medical conditions (falls, fractures, syncope)	1,159	8.0%	5,823	8.6%	-0.599	-0.022
Cardioversion	2,539	17.5%	11,883	17.6%	-0.031	-0.001
Cardioablation	709	4.9%	3,282	4.9%	0.047	0.002
Hospitalized for bleeding	47	0.3%	296	0.4%	-0.112	-0.018
Medical Product Use						
Estrogen replacement	1	0.0%	5	0.0%	-0.002	-0.003
H2-antagonist	275	1.9%	1,579	2.3%	-0.436	-0.030

cder\_mpl2p\_wp047 Page 40 of 702



Table 1f. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	Apixaban Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
NSAIDs	2,102	14.5%	10,064	14.9%	-0.358	-0.010	
Proton pump inhibitors	2,600	18.0%	12,899	19.1%	-1.111	-0.029	
SSRI antidepressants	1,295	9.0%	6,338	9.4%	-0.421	-0.015	
Insulin	918	6.3%	4,959	7.3%	-0.992	-0.040	
Metformin (Biguanide)	2,236	15.5%	11,669	17.3%	-1.807	-0.049	
Sulfonylureas	792	5.5%	3,884	5.7%	-0.267	-0.012	
Other diabetes medications	1,059	7.3%	5,669	8.4%	-1.063	-0.040	
ACEI/ARB	7,345	50.8%	35,354	52.3%	-1.525	-0.031	
Antiarrhythmics	4,335	30.0%	19,790	29.3%	0.693	0.015	
Anti-coagulant (injectable)	1,385	9.6%	7,461	11.0%	-1.464	-0.049	
Anti-platelets	1,666	11.5%	8,848	13.1%	-1.572	-0.048	
Beta-blockers	10,160	70.2%	48,449	71.7%	-1.441	-0.032	
Calcium channel blockers	4,963	34.3%	23,694	35.1%	-0.740	-0.016	
Digoxin	995	6.9%	4,432	6.6%	0.322	0.013	
Diuretics (loop)	2,389	16.5%	12,449	18.4%	-1.902	-0.051	
Diuretics (potassium sparing)	1,038	7.2%	5,387	8.0%	-0.790	-0.030	
Diuretics (thiazide)	2,695	18.6%	12,860	19.0%	-0.391	-0.010	
Nitrates	758	5.2%	4,041	6.0%	-0.738	-0.032	
Statins	6,419	44.4%	31,649	46.8%	-2.448	-0.049	
Fibrates	659	4.6%	3,151	4.7%	-0.107	-0.005	
Amiodarone	1,531	10.6%	7,588	11.2%	-0.640	-0.021	
Dronedarone	506	3.5%	2,070	3.1%	0.439	0.025	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	9,949	68.8%	46,155	68.3%	0.494	0.011	
No ED encounters (past 31-183 days)	11,906	82.3%	54,961	81.3%	0.997	0.026	

Page 41 of 702



Table 1f. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male

		Medical Product					
	Dabigat	ran Users	Apixaban Users				
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
At least 1 ED encounter (past 0-30 days)	4,517	31.2%	21,440	31.7%	-0.494	-0.011	
At least 2 ED encounters (past 0-30 days)	960	6.6%	4,738	7.0%	-0.375	-0.015	
At least 1 ED encounter (past 31-183 days)	2,559	17.7%	12,634	18.7%	-0.997	-0.026	
At least 2 ED encounters (past 31-183 days)	783	5.4%	4,013	5.9%	-0.522	-0.023	

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 42 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1g. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	3,484	100.0%	14,485	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	43.5	6.0	43.3	6.0	0.136	0.023	
Age							
21-49 years	3,484	100.0%	14,485	100.0%	0.000	NaN	
50-64 years	0	0.0%	0	0.0%	NaN	NaN	
Sex							
Female	590	16.9%	3,300	22.8%	-5.848	-0.147	
Male	2,894	83.1%	11,185	77.2%	5.848	0.147	
Race <sup>3</sup>							
American Indian or Alaska Native	1	0.0%	7	0.0%	-0.020	-0.010	
Asian	5	0.1%	44	0.3%	-0.160	-0.034	
Black or African American	30	0.9%	372	2.6%	-1.707	-0.132	
Native Hawaiian or Other Pacific Islander	0	0.0%	8	0.1%	NaN	NaN	
Unknown	3,215	92.3%	12,631	87.2%	5.078	0.168	
White	227	6.5%	1,355	9.4%	-2.839	-0.105	
Hispanic origin							
Yes	10	0.3%	118	0.8%	-0.528	-0.071	
No	81	2.3%	768	5.3%	-2.977	-0.156	
Unknown	3,393	97.4%	13,599	93.9%	3.505	0.172	
Year							
2010	79	2.3%	0	0.0%	NaN	NaN	
2011	1,225	35.2%	0	0.0%	NaN	NaN	
2012	861	24.7%	0	0.0%	NaN	NaN	
2013	421	12.1%	219	1.5%	10.572	0.430	



Table 1g. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	247	7.1%	536	3.7%	3.389	0.150
2015	148	4.2%	982	6.8%	-2.531	-0.111
2016	195	5.6%	1,366	9.4%	-3.833	-0.146
2017	124	3.6%	1,705	11.8%	-8.212	-0.312
2018	80	2.3%	2,057	14.2%	-11.905	-0.443
2019	56	1.6%	2,305	15.9%	-14.306	-0.523
2020	34	1.0%	2,351	16.2%	-15.255	-0.565
2021	9	0.3%	2,628	18.1%	-17.885	-0.651
2022	5	0.1%	336	2.3%	-2.176	-0.198
CHADVASC						
mean, std	1.1	1.0	1.4	1.2	-0.323	-0.289
0	1,151	33.0%	3,832	26.5%	6.582	0.144
1	1,332	38.2%	4,991	34.5%	3.776	0.079
2	689	19.8%	3,075	21.2%	-1.453	-0.036
3	235	6.7%	1,600	11.0%	-4.301	-0.152
4	65	1.9%	749	5.2%	-3.305	-0.180
>= 5	12	0.3%	238	1.6%	-1.299	-0.131
HASBLED						
mean, std	0.7	0.7	0.9	0.8	-0.164	-0.219
0	1,492	42.8%	5,227	36.1%	6.739	0.138
1	1,622	46.6%	6,705	46.3%	0.266	0.005
2	322	9.2%	2,021	14.0%	-4.710	-0.148
>= 3	48	1.4%	532	3.7%	-2.295	-0.147
<b>Health Characteristics</b>						
Diabetes	548	15.7%	2,891	20.0%	-4.230	-0.111



Table 1g. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	597	17.1%	2,406	16.6%	0.525	0.014
Hypertension	1,829	52.5%	8,504	58.7%	-6.212	-0.125
Kidney failure (chronic)	76	2.2%	733	5.1%	-2.879	-0.155
Kidney failure (acute)	81	2.3%	1,098	7.6%	-5.255	-0.244
Obesity	904	25.9%	6,140	42.4%	-16.441	-0.352
Peptic ulcer disease	6	0.2%	39	0.3%	-0.097	-0.021
Nicotine dependency	614	17.6%	3,899	26.9%	-9.294	-0.225
Hospitalized AMI (past 0-30 days)	20	0.6%	273	1.9%	-1.311	-0.119
Hospitalized AMI (past 31-183 days)	10	0.3%	107	0.7%	-0.452	-0.063
Coronary revascularization	101	2.9%	584	4.0%	-1.133	-0.062
Hospitalized heart failure	352	10.1%	2,224	15.4%	-5.250	-0.158
Outpatient heart failure	351	10.1%	1,933	13.3%	-3.270	-0.102
Other ischemic heart disease	540	15.5%	2,406	16.6%	-1.111	-0.030
Hospitalized Thromboembolic Stroke (past 0-30 days)	17	0.5%	172	1.2%	-0.699	-0.077
Hospitalized Thromboembolic Stroke (past 31-183 days)	19	0.5%	103	0.7%	-0.166	-0.021
Transient ischemic attack	64	1.8%	424	2.9%	-1.090	-0.072
Other medical conditions (falls, fractures, syncope)	244	7.0%	1,339	9.2%	-2.241	-0.082
Cardioversion	796	22.8%	3,015	20.8%	2.033	0.049
Cardioablation	370	10.6%	971	6.7%	3.916	0.140
Hospitalized for bleeding	5	0.1%	61	0.4%	-0.278	-0.052
Medical Product Use						
Estrogen replacement	76	2.2%	306	2.1%	0.069	0.005
H2-antagonist	45	1.3%	311	2.1%	-0.855	-0.066
NSAIDs	445	12.8%	2,054	14.2%	-1.408	-0.041

Page 45 of 702



Table 1g. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Proton pump inhibitors	482	13.8%	2,509	17.3%	-3.487	-0.096	
SSRI antidepressants	335	9.6%	1,604	11.1%	-1.458	-0.048	
Insulin	114	3.3%	759	5.2%	-1.968	-0.098	
Metformin (Biguanide)	306	8.8%	1,717	11.9%	-3.071	-0.101	
Sulfonylureas	124	3.6%	434	3.0%	0.563	0.032	
Other diabetes medications	114	3.3%	805	5.6%	-2.285	-0.111	
ACEI/ARB	1,202	34.5%	5,534	38.2%	-3.704	-0.077	
Antiarrhythmics	1,306	37.5%	4,270	29.5%	8.007	0.170	
Anti-coagulant (injectable)	329	9.4%	1,962	13.5%	-4.102	-0.129	
Anti-platelets	132	3.8%	1,270	8.8%	-4.979	-0.206	
Beta-blockers	2,260	64.9%	9,971	68.8%	-3.969	-0.084	
Calcium channel blockers	1,036	29.7%	4,582	31.6%	-1.897	-0.041	
Digoxin	338	9.7%	700	4.8%	4.869	0.188	
Diuretics (loop)	390	11.2%	2,196	15.2%	-3.966	-0.117	
Diuretics (potassium sparing)	185	5.3%	1,159	8.0%	-2.691	-0.108	
Diuretics (thiazide)	434	12.5%	2,040	14.1%	-1.627	-0.048	
Nitrates	92	2.6%	472	3.3%	-0.618	-0.037	
Statins	787	22.6%	3,646	25.2%	-2.582	-0.061	
Fibrates	102	2.9%	348	2.4%	0.525	0.033	
Amiodarone	270	7.7%	1,269	8.8%	-1.011	-0.037	
Dronedarone	259	7.4%	328	2.3%	5.170	0.242	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	2,279	65.4%	8,534	58.9%	6.497	0.134	
No ED encounters (past 31-183 days)	2,827	81.1%	10,970	75.7%	5.409	0.132	
At least 1 ED encounter (past 0-30 days)	1,205	34.6%	5,951	41.1%	-6.497	-0.134	

cder\_mpl2p\_wp047 Page 46 of 702



Table 1g. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

		Covariate Balance				
	Dabigatr	an Users	Apixaban Users			
	Percent/Standard Percent/Standard			Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	207	5.9%	1,334	9.2%	-3.268	-0.124
At least 1 ED encounter (past 31-183 days)	657	18.9%	3,515	24.3%	-5.409	-0.132
At least 2 ED encounters (past 31-183 days)	185	5.3%	1,233	8.5%	-3.202	-0.127

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 47 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1h. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	3,285	N/A	14,098	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	43.3	6.1	43.4	6.0	-0.047	-0.008	
Age							
21-49 years	3,285	100.0%	14,098	100.0%	0.000	NaN	
50-64 years	0	0.0%	0	0.0%	NaN	NaN	
Sex							
Female	683	20.8%	2,986	21.2%	-0.386	-0.009	
Male	2,602	79.2%	11,112	78.8%	0.386	0.009	
Race <sup>3</sup>							
American Indian or Alaska Native	3	0.1%	6	0.0%	0.053	0.021	
Asian	3	0.1%	42	0.3%	-0.200	-0.045	
Black or African American	36	1.1%	307	2.2%	-1.077	-0.089	
Native Hawaiian or Other Pacific Islander	0	0.0%	9	0.1%	NaN	NaN	
Unknown	3,013	91.7%	12,408	88.0%	3.704	0.152	
White	225	6.8%	1,259	8.9%	-2.085	-0.090	
Hispanic origin							
Yes	9	0.3%	107	0.8%	-0.489	-0.069	
No	86	2.6%	638	4.5%	-1.918	-0.142	
Unknown	3,190	97.1%	13,353	94.7%	2.406	0.160	
Year							
2010	59	1.8%	0	0.0%	NaN	NaN	
2011	1,035	31.5%	0	0.0%	NaN	NaN	
2012	742	22.6%	0	0.0%	NaN	NaN	



Table 1h. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	396	12.1%	238	1.7%	10.363	0.418	
2014	257	7.8%	569	4.0%	3.781	0.161	
2015	150	4.6%	1,011	7.2%	-2.602	-0.111	
2016	254	7.7%	1,365	9.7%	-1.962	-0.070	
2017	161	4.9%	1,684	11.9%	-7.052	-0.256	
2018	103	3.1%	1,989	14.1%	-10.960	-0.398	
2019	70	2.1%	2,195	15.6%	-13.429	-0.486	
2020	42	1.3%	2,234	15.8%	-14.584	-0.541	
2021	10	0.3%	2,496	17.7%	-17.385	-0.638	
2022	7	0.2%	317	2.2%	-2.045	-0.187	
CHADVASC							
mean, std	1.2	1.1	1.3	1.2	-0.068	-0.060	
0	955	29.1%	3,970	28.2%	0.906	0.020	
1	1,221	37.2%	5,055	35.9%	1.317	0.027	
2	677	20.6%	2,951	20.9%	-0.311	-0.008	
3	307	9.4%	1,404	10.0%	-0.607	-0.021	
4	100	3.1%	580	4.1%	-1.057	-0.057	
>= 5	24	0.7%	137	1.0%	-0.248	-0.027	
HASBLED							
mean, std	0.8	0.7	0.8	0.8	-0.028	-0.037	
0	1,279	38.9%	5,353	38.0%	0.964	0.020	
1	1,539	46.8%	6,585	46.7%	0.139	0.003	
2	394	12.0%	1,773	12.6%	-0.594	-0.018	
>= 3	74	2.2%	388	2.8%	-0.510	-0.033	

cder\_mpl2p\_wp047 Page 49 of 702



Table 1h. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	533	16.2%	2,590	18.4%	-2.137	-0.057
Hypercholesterolemia	519	15.8%	2,325	16.5%	-0.680	-0.018
Hypertension	1,849	56.3%	8,024	56.9%	-0.631	-0.013
Kidney failure (chronic)	111	3.4%	562	4.0%	-0.617	-0.033
Kidney failure (acute)	142	4.3%	811	5.8%	-1.430	-0.065
Obesity	1,207	36.7%	5,441	38.6%	-1.857	-0.038
Peptic ulcer disease	6	0.2%	27	0.2%	-0.014	-0.003
Nicotine dependency	759	23.1%	3,454	24.5%	-1.395	-0.033
Hospitalized AMI (past 0-30 days)	27	0.8%	195	1.4%	-0.569	-0.055
Hospitalized AMI (past 31-183 days)	17	0.5%	78	0.6%	-0.040	-0.006
Coronary revascularization	105	3.2%	512	3.6%	-0.444	-0.024
Hospitalized heart failure	402	12.3%	1,931	13.7%	-1.447	-0.043
Outpatient heart failure	382	11.6%	1,718	12.2%	-0.550	-0.017
Other ischemic heart disease	515	15.7%	2,264	16.1%	-0.390	-0.011
Hospitalized Thromboembolic Stroke (past 0-30 days)	29	0.9%	118	0.8%	0.060	0.007
Hospitalized Thromboembolic Stroke (past 31-183 days)	25	0.8%	90	0.6%	0.125	0.015
Transient ischemic attack	88	2.7%	364	2.6%	0.084	0.005
Other medical conditions (falls, fractures, syncope)	279	8.5%	1,212	8.6%	-0.111	-0.004
Cardioversion	706	21.5%	3,020	21.4%	0.075	0.002
Cardioablation	233	7.1%	1,055	7.5%	-0.391	-0.015
Hospitalized for bleeding	7	0.2%	42	0.3%	-0.089	-0.018

cder\_mpl2p\_wp047 Page 50 of 702



Table 1h. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Medical Product Use							
Estrogen replacement	64	1.9%	298	2.1%	-0.170	-0.012	
H2-antagonist	45	1.4%	269	1.9%	-0.550	-0.044	
NSAIDs	439	13.4%	1,926	13.7%	-0.306	-0.009	
Proton pump inhibitors	525	16.0%	2,309	16.4%	-0.392	-0.011	
SSRI antidepressants	347	10.6%	1,513	10.7%	-0.168	-0.005	
Insulin	119	3.6%	616	4.4%	-0.753	-0.039	
Metformin (Biguanide)	314	9.6%	1,534	10.9%	-1.318	-0.044	
Sulfonylureas	84	2.5%	416	3.0%	-0.406	-0.025	
Other diabetes medications	139	4.2%	678	4.8%	-0.572	-0.028	
ACEI/ARB	1,190	36.2%	5,214	37.0%	-0.759	-0.016	
Antiarrhythmics	1,062	32.3%	4,377	31.0%	1.294	0.028	
Anti-coagulant (injectable)	395	12.0%	1,807	12.8%	-0.804	-0.025	
Anti-platelets	197	6.0%	1,013	7.2%	-1.178	-0.048	
Beta-blockers	2,197	66.9%	9,565	67.8%	-0.955	-0.020	
Calcium channel blockers	994	30.3%	4,380	31.1%	-0.810	-0.018	
Digoxin	188	5.7%	821	5.8%	-0.092	-0.004	
Diuretics (loop)	417	12.7%	1,967	14.0%	-1.271	-0.038	
Diuretics (potassium sparing)	203	6.2%	1,001	7.1%	-0.911	-0.037	
Diuretics (thiazide)	428	13.0%	1,923	13.6%	-0.610	-0.018	
Nitrates	99	3.0%	432	3.1%	-0.064	-0.004	
Statins	760	23.1%	3,381	24.0%	-0.848	-0.020	
Fibrates	77	2.4%	351	2.5%	-0.137	-0.009	
Amiodarone	279	8.5%	1,187	8.4%	0.058	0.002	

cder\_mpl2p\_wp047 Page 51 of 702



Table 1h. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Dronedarone	109	3.3%	440	3.1%	0.205	0.012	
<b>Health Service Utilization Intensity Metrics</b>							
No ED encounters (past 0-30 days)	1,938	59.0%	8,598	61.0%	-1.986	-0.043	
No ED encounters (past 31-183 days)	2,558	77.9%	10,924	77.5%	0.382	0.009	
At least 1 ED encounter (past 0-30 days)	1,347	41.0%	5,500	39.0%	1.986	0.043	
At least 2 ED encounters (past 0-30 days)	293	8.9%	1,134	8.0%	0.870	0.032	
At least 1 ED encounter (past 31-183 days)	727	22.1%	3,174	22.5%	-0.382	-0.009	
At least 2 ED encounters (past 31-183 days)	230	7.0%	1,038	7.4%	-0.364	-0.014	

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 52 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1i. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	16,675	100.0%	81,715	100.0%	N/A	N/A	
Demographic Characteristics							
Age (years)	58.9	4.1	59.3	4.0	-0.396	-0.098	
Age							
21-49 years	0	0.0%	0	0.0%	NaN	NaN	
50-64 years	16,675	100.0%	81,715	100.0%	0.000	NaN	
Sex							
Female	4,116	24.7%	24,911	30.5%	-5.802	-0.130	
Male	12,559	75.3%	56,804	69.5%	5.802	0.130	
Race <sup>3</sup>							
American Indian or Alaska Native	3	0.0%	72	0.1%	-0.070	-0.030	
Asian	24	0.1%	156	0.2%	-0.047	-0.011	
Black or African American	196	1.2%	2,395	2.9%	-1.756	-0.124	
Native Hawaiian or Other Pacific Islander	13	0.1%	77	0.1%	-0.016	-0.006	
Unknown	14,770	88.6%	64,878	79.4%	9.180	0.252	
White	1,642	9.8%	13,815	16.9%	-7.059	-0.209	
Hispanic origin							
Yes	41	0.2%	410	0.5%	-0.256	-0.042	
No	1,142	6.8%	10,289	12.6%	-5.743	-0.195	
Unknown	15,492	92.9%	71,016	86.9%	5.999	0.200	
Year							
2010	403	2.4%	0	0.0%	NaN	NaN	
2011	5,582	33.5%	0	0.0%	NaN	NaN	
2012	3,773	22.6%	0	0.0%	NaN	NaN	
2013	1,965	11.8%	1,144	1.4%	10.384	0.428	



Table 1i. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

	Medical Product					te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	1,260	7.6%	3,203	3.9%	3.637	0.157
2015	893	5.4%	5,864	7.2%	-1.821	-0.075
2016	1,090	6.5%	8,132	10.0%	-3.415	-0.124
2017	741	4.4%	9,769	12.0%	-7.511	-0.276
2018	477	2.9%	11,107	13.6%	-10.732	-0.398
2019	246	1.5%	12,734	15.6%	-14.108	-0.522
2020	134	0.8%	13,042	16.0%	-15.157	-0.569
2021	96	0.6%	14,806	18.1%	-17.543	-0.632
2022	15	0.1%	1,914	2.3%	-2.252	-0.207
CHADVASC						
mean, std	1.5	1.1	1.9	1.3	-0.344	-0.288
0	2,974	17.8%	10,205	12.5%	5.347	0.149
1	5,961	35.7%	25,319	31.0%	4.764	0.101
2	4,728	28.4%	22,668	27.7%	0.614	0.014
3	2,035	12.2%	13,833	16.9%	-4.724	-0.134
4	737	4.4%	7,190	8.8%	-4.379	-0.177
>= 5	240	1.4%	2,500	3.1%	-1.620	-0.109
HASBLED						
mean, std	0.9	0.7	1.1	0.8	-0.193	-0.257
0	4,317	25.9%	16,635	20.4%	5.532	0.131
1	9,829	58.9%	44,852	54.9%	4.056	0.082
2	2,102	12.6%	15,195	18.6%	-5.989	-0.166
>= 3	427	2.6%	5,033	6.2%	-3.598	-0.177
<b>Health Characteristics</b>						
Diabetes	4,517	27.1%	25,274	30.9%	-3.841	-0.085



Table 1i. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

			Covariate Balance			
	Dabigatı	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	4,773	28.6%	24,360	29.8%	-1.187	-0.026
Hypertension	11,885	71.3%	62,738	76.8%	-5.502	-0.126
Kidney failure (chronic)	673	4.0%	6,950	8.5%	-4.469	-0.185
Kidney failure (acute)	582	3.5%	7,741	9.5%	-5.983	-0.245
Obesity	3,660	21.9%	32,075	39.3%	-17.303	-0.382
Peptic ulcer disease	44	0.3%	358	0.4%	-0.174	-0.029
Nicotine dependency	2,689	16.1%	23,318	28.5%	-12.410	-0.301
Hospitalized AMI (past 0-30 days)	205	1.2%	2,296	2.8%	-1.580	-0.113
Hospitalized AMI (past 31-183 days)	87	0.5%	1,179	1.4%	-0.921	-0.093
Coronary revascularization	1,175	7.0%	8,679	10.6%	-3.575	-0.126
Hospitalized heart failure	1,877	11.3%	14,546	17.8%	-6.545	-0.187
Outpatient heart failure	2,036	12.2%	13,748	16.8%	-4.614	-0.131
Other ischemic heart disease	4,529	27.2%	25,257	30.9%	-3.748	-0.083
Hospitalized Thromboembolic Stroke (past 0-30 days)	214	1.3%	1,271	1.6%	-0.272	-0.023
Hospitalized Thromboembolic Stroke (past 31-183 days)	89	0.5%	759	0.9%	-0.395	-0.046
Transient ischemic attack	593	3.6%	2,797	3.4%	0.133	0.007
Other medical conditions (falls, fractures, syncope)	1,193	7.2%	8,070	9.9%	-2.721	-0.098
Cardioversion	2,604	15.6%	12,183	14.9%	0.707	0.020
Cardioablation	930	5.6%	3,246	4.0%	1.605	0.075
Hospitalized for bleeding	70	0.4%	436	0.5%	-0.114	-0.017
Medical Product Use						
Estrogen replacement	416	2.5%	2,054	2.5%	-0.019	-0.001
H2-antagonist	322	1.9%	2,434	3.0%	-1.048	-0.068
NSAIDs	2,565	15.4%	13,744	16.8%	-1.437	-0.039

cder\_mpl2p\_wp047 Page 55 of 702



Table 1i. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Proton pump inhibitors	3,034	18.2%	18,299	22.4%	-4.199	-0.105	
SSRI antidepressants	1,759	10.5%	10,607	13.0%	-2.432	-0.076	
Insulin	1,057	6.3%	6,867	8.4%	-2.065	-0.079	
Metformin (Biguanide)	2,574	15.4%	15,345	18.8%	-3.342	-0.089	
Sulfonylureas	1,103	6.6%	4,740	5.8%	0.814	0.034	
Other diabetes medications	1,225	7.3%	7,692	9.4%	-2.067	-0.075	
ACEI/ARB	8,402	50.4%	43,507	53.2%	-2.856	-0.057	
Antiarrhythmics	5,895	35.4%	22,703	27.8%	7.569	0.163	
Anti-coagulant (injectable)	1,146	6.9%	9,631	11.8%	-4.914	-0.170	
Anti-platelets	1,471	8.8%	11,390	13.9%	-5.117	-0.162	
Beta-blockers	11,390	68.3%	59,567	72.9%	-4.590	-0.101	
Calcium channel blockers	5,927	35.5%	29,851	36.5%	-0.986	-0.021	
Digoxin	1,837	11.0%	4,469	5.5%	5.547	0.203	
Diuretics (loop)	2,595	15.6%	16,891	20.7%	-5.108	-0.133	
Diuretics (potassium sparing)	1,161	7.0%	7,247	8.9%	-1.906	-0.071	
Diuretics (thiazide)	3,535	21.2%	17,720	21.7%	-0.486	-0.012	
Nitrates	789	4.7%	5,260	6.4%	-1.705	-0.074	
Statins	7,425	44.5%	40,208	49.2%	-4.677	-0.094	
Fibrates	905	5.4%	3,429	4.2%	1.231	0.058	
Amiodarone	1,518	9.1%	9,077	11.1%	-2.005	-0.067	
Dronedarone	1,209	7.3%	1,815	2.2%	5.029	0.238	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	12,519	75.1%	54,186	66.3%	8.766	0.193	
No ED encounters (past 31-183 days)	14,175	85.0%	64,691	79.2%	5.841	0.153	
At least 1 ED encounter (past 0-30 days)	4,156	24.9%	27,529	33.7%	-8.766	-0.193	

cder\_mpl2p\_wp047 Page 56 of 702



Table 1i. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

	Medical Product					te Balance
	Dabigatra	an Users	Apixaban Users			
	Percent/Standard Percent/Standard			Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	765	4.6%	6,579	8.1%	-3.463	-0.143
At least 1 ED encounter (past 31-183 days)	2,500	15.0%	17,024	20.8%	-5.841	-0.153
At least 2 ED encounters (past 31-183 days)	686	4.1%	5,834	7.1%	-3.026	-0.132

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 57 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1j. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	15,562	N/A	81,592	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	59.1	4.1	59.2	4.0	-0.108	-0.027	
Age							
21-49 years	0	0.0%	0	0.0%	NaN	NaN	
50-64 years	15,562	100.0%	81,592	100.0%	0.000	NaN	
Sex							
Female	4,473	28.7%	24,135	29.6%	-0.837	-0.018	
Male	11,089	71.3%	57,458	70.4%	0.837	0.018	
Race <sup>3</sup>							
American Indian or Alaska Native	1	0.0%	71	0.1%	-0.081	-0.037	
Asian	16	0.1%	163	0.2%	-0.099	-0.026	
Black or African American	228	1.5%	2,300	2.8%	-1.353	-0.098	
Native Hawaiian or Other Pacific Islander	15	0.1%	76	0.1%	0.006	0.002	
Unknown	13,666	87.8%	65,004	79.7%	8.149	0.324	
White	1,610	10.3%	13,657	16.7%	-6.394	-0.245	
Hispanic origin							
Yes	42	0.3%	405	0.5%	-0.226	-0.037	
No	1,163	7.5%	10,130	12.4%	-4.941	-0.315	
Unknown	14,357	92.3%	71,058	87.1%	5.168	0.317	
Year							
2010	313	2.0%	0	0.0%	NaN	NaN	
2011	4,601	29.6%	0	0.0%	NaN	NaN	
2012	3,306	21.2%	0	0.0%	NaN	NaN	

Page 58 of 702



Table 1j. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

		Medical Product				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2013	1,795	11.5%	1,271	1.6%	9.976	0.412
2014	1,216	7.8%	3,485	4.3%	3.540	0.149
2015	918	5.9%	6,215	7.6%	-1.717	-0.068
2016	1,236	7.9%	8,299	10.2%	-2.229	-0.078
2017	903	5.8%	9,822	12.0%	-6.235	-0.220
2018	619	4.0%	11,028	13.5%	-9.535	-0.343
2019	316	2.0%	12,496	15.3%	-13.284	-0.486
2020	183	1.2%	12,744	15.6%	-14.442	-0.539
2021	134	0.9%	14,379	17.6%	-16.764	-0.606
2022	22	0.1%	1,854	2.3%	-2.129	-0.196
CHADVASC						
mean, std	1.7	1.2	1.8	1.2	-0.117	-0.096
0	2,281	14.7%	10,841	13.3%	1.369	0.040
1	5,218	33.5%	25,856	31.7%	1.844	0.040
2	4,423	28.4%	22,725	27.9%	0.569	0.013
3	2,279	14.6%	13,221	16.2%	-1.556	-0.043
4	1,022	6.6%	6,650	8.1%	-1.585	-0.061
>= 5	339	2.2%	2,300	2.8%	-0.641	-0.041
HASBLED						
mean, std	1.0	0.8	1.1	0.8	-0.061	-0.079
0	3,592	23.1%	17,266	21.2%	1.920	0.047
1	8,765	56.3%	45,338	55.6%	0.761	0.015
2	2,506	16.1%	14,420	17.7%	-1.568	-0.042
>= 3	698	4.5%	4,569	5.6%	-1.113	-0.051

cder\_mpl2p\_wp047 Page 59 of 702



Table 1j. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

		Covariate Balance				
	Dabigat	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	4,341	27.9%	24,835	30.4%	-2.542	-0.057
Hypercholesterolemia	4,415	28.4%	24,147	29.6%	-1.221	-0.027
Hypertension	11,530	74.1%	61,989	76.0%	-1.882	-0.044
Kidney failure (chronic)	988	6.4%	6,388	7.8%	-1.477	-0.058
Kidney failure (acute)	964	6.2%	6,935	8.5%	-2.303	-0.089
Obesity	5,164	33.2%	29,721	36.4%	-3.242	-0.068
Peptic ulcer disease	55	0.4%	335	0.4%	-0.060	-0.010
Nicotine dependency	3,615	23.2%	21,655	26.5%	-3.310	-0.078
Hospitalized AMI (past 0-30 days)	298	1.9%	2,083	2.6%	-0.635	-0.043
Hospitalized AMI (past 31-183 days)	146	0.9%	1,060	1.3%	-0.358	-0.034
Coronary revascularization	1,352	8.7%	8,211	10.1%	-1.378	-0.047
Hospitalized heart failure	2,234	14.4%	13,711	16.8%	-2.448	-0.068
Outpatient heart failure	2,215	14.2%	13,227	16.2%	-1.978	-0.056
Other ischemic heart disease	4,473	28.7%	24,821	30.4%	-1.675	-0.037
Hospitalized Thromboembolic Stroke (past 0-30 days)	241	1.6%	1,236	1.5%	0.036	0.003
Hospitalized Thromboembolic Stroke (past 31-183 days)	127	0.8%	707	0.9%	-0.048	-0.005
Transient ischemic attack	552	3.5%	2,820	3.5%	0.093	0.005
Other medical conditions (falls, fractures, syncope)	1,369	8.8%	7,708	9.4%	-0.648	-0.023
Cardioversion	2,345	15.1%	12,252	15.0%	0.052	0.001
Cardioablation	673	4.3%	3,462	4.2%	0.080	0.004
Hospitalized for bleeding	77	0.5%	420	0.5%	-0.023	-0.003

Page 60 of 702



Table 1j. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

		Medical Product				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Medical Product Use						
Estrogen replacement	391	2.5%	2,046	2.5%	0.006	0.000
H2-antagonist	367	2.4%	2,336	2.9%	-0.503	-0.032
NSAIDs	2,517	16.2%	13,571	16.6%	-0.461	-0.012
Proton pump inhibitors	3,200	20.6%	17,816	21.8%	-1.271	-0.031
SSRI antidepressants	1,838	11.8%	10,334	12.7%	-0.852	-0.026
Insulin	1,091	7.0%	6,643	8.1%	-1.129	-0.043
Metformin (Biguanide)	2,581	16.6%	14,909	18.3%	-1.688	-0.045
Sulfonylureas	893	5.7%	4,873	6.0%	-0.231	-0.010
Other diabetes medications	1,251	8.0%	7,406	9.1%	-1.036	-0.037
ACEI/ARB	8,060	51.8%	43,137	52.9%	-1.073	-0.022
Antiarrhythmics	4,639	29.8%	23,718	29.1%	0.739	0.016
Anti-coagulant (injectable)	1,446	9.3%	9,041	11.1%	-1.788	-0.060
Anti-platelets	1,814	11.7%	10,707	13.1%	-1.467	-0.045
Beta-blockers	11,026	70.9%	58,882	72.2%	-1.310	-0.029
Calcium channel blockers	5,571	35.8%	29,696	36.4%	-0.595	-0.012
Digoxin	1,064	6.8%	5,235	6.4%	0.424	0.017
Diuretics (loop)	2,763	17.8%	16,305	20.0%	-2.228	-0.058
Diuretics (potassium sparing)	1,196	7.7%	7,011	8.6%	-0.908	-0.033
Diuretics (thiazide)	3,313	21.3%	17,655	21.6%	-0.347	-0.008
Nitrates	835	5.4%	5,072	6.2%	-0.854	-0.037
Statins	7,178	46.1%	39,574	48.5%	-2.375	-0.048
Fibrates	685	4.4%	3,607	4.4%	-0.017	-0.001
Amiodarone	1,577	10.1%	8,815	10.8%	-0.669	-0.022

cder\_mpl2p\_wp047 Page 61 of 702



Table 1j. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 1%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 1%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	549	3.5%	2,474	3.0%	0.495	0.028
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	10,768	69.2%	55,482	68.0%	1.194	0.027
No ED encounters (past 31-183 days)	12,669	81.4%	65,305	80.0%	1.374	0.035
At least 1 ED encounter (past 0-30 days)	4,794	30.8%	26,110	32.0%	-1.194	-0.027
At least 2 ED encounters (past 0-30 days)	1,037	6.7%	6,061	7.4%	-0.767	-0.031
At least 1 ED encounter (past 31-183 days)	2,893	18.6%	16,288	20.0%	-1.374	-0.035
At least 2 ED encounters (past 31-183 days)	911	5.9%	5,461	6.7%	-0.839	-0.035

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 62 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1k. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	4,125	100.0%	14,037	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	53.5	8.7	53.9	9.0	-0.436	-0.049	
Age							
21-49 years	1,151	27.9%	3,832	27.3%	0.604	0.014	
50-64 years	2,974	72.1%	10,205	72.7%	-0.604	-0.014	
Sex							
Female	0	0.0%	0	0.0%	NaN	NaN	
Male	4,125	100.0%	14,037	100.0%	0.000	NaN	
Race <sup>3</sup>							
American Indian or Alaska Native	0	0.0%	7	0.0%	NaN	NaN	
Asian	4	0.1%	38	0.3%	-0.174	-0.041	
Black or African American	8	0.2%	54	0.4%	-0.191	-0.036	
Native Hawaiian or Other Pacific Islander	1	0.0%	0	0.0%	NaN	NaN	
Unknown	3,855	93.5%	12,477	88.9%	4.568	0.162	
White	251	6.1%	1,408	10.0%	-3.946	-0.145	
Hispanic origin							
Yes	3	0.1%	67	0.5%	-0.405	-0.077	
No	62	1.5%	375	2.7%	-1.168	-0.082	
Unknown	4,060	98.4%	13,595	96.9%	1.573	0.104	
Year							
2010	113	2.7%	0	0.0%	NaN	NaN	
2011	1,508	36.6%	0	0.0%	NaN	NaN	
2012	1,021	24.8%	0	0.0%	NaN	NaN	
2013	540	13.1%	235	1.7%	11.417	0.447	



Table 1k. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

		Medical Product				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	256	6.2%	622	4.4%	1.775	0.079
2015	182	4.4%	1,080	7.7%	-3.282	-0.138
2016	194	4.7%	1,424	10.1%	-5.442	-0.209
2017	119	2.9%	1,636	11.7%	-8.770	-0.343
2018	95	2.3%	1,946	13.9%	-11.560	-0.434
2019	50	1.2%	2,098	14.9%	-13.734	-0.521
2020	29	0.7%	2,208	15.7%	-15.027	-0.569
2021	14	0.3%	2,468	17.6%	-17.243	-0.633
2022	4	0.1%	320	2.3%	-2.183	-0.202
CHADVASC						
mean, std	0.0	NaN	0.0	NaN	NaN	NaN
0	4,125	100.0%	14,037	100.0%	0.000	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	0	0.0%	0	0.0%	NaN	NaN
4	0	0.0%	0	0.0%	NaN	NaN
>= 5	0	0.0%	0	0.0%	NaN	NaN
HASBLED						
mean, std	0.1	0.3	0.1	0.3	-0.028	-0.086
0	3,798	92.1%	12,603	89.8%	2.289	0.080
1	305	7.4%	1,302	9.3%	-1.882	-0.068
2	22	0.5%	119	0.8%	-0.314	-0.038
>= 3	0	0.0%	13	0.1%	NaN	NaN
Health Characteristics						
Diabetes	9	0.2%	50	0.4%	-0.138	-0.026



Table 1k. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

			Covariate Balance			
	Dabigatı	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	596	14.4%	1,908	13.6%	0.856	0.025
Hypertension	57	1.4%	418	3.0%	-1.596	-0.109
Kidney failure (chronic)	24	0.6%	169	1.2%	-0.622	-0.066
Kidney failure (acute)	31	0.8%	268	1.9%	-1.158	-0.101
Obesity	343	8.3%	2,534	18.1%	-9.737	-0.291
Peptic ulcer disease	4	0.1%	29	0.2%	-0.110	-0.028
Nicotine dependency	472	11.4%	2,458	17.5%	-6.068	-0.173
Hospitalized AMI (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN
Hospitalized AMI (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN
Coronary revascularization	65	1.6%	279	2.0%	-0.412	-0.031
Hospitalized heart failure	0	0.0%	0	0.0%	NaN	NaN
Outpatient heart failure	195	4.7%	629	4.5%	0.246	0.012
Other ischemic heart disease	477	11.6%	1,701	12.1%	-0.554	-0.017
Hospitalized Thromboembolic Stroke (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN
Hospitalized Thromboembolic Stroke (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN
Transient ischemic attack	0	0.0%	8	0.1%	NaN	NaN
Other medical conditions (falls, fractures, syncope)	225	5.5%	934	6.7%	-1.199	-0.050
Cardioversion	682	16.5%	2,260	16.1%	0.433	0.012
Cardioablation	373	9.0%	822	5.9%	3.186	0.122
Hospitalized for bleeding	8	0.2%	27	0.2%	0.002	0.000
Medical Product Use						
Estrogen replacement	0	0.0%	6	0.0%	NaN	NaN
H2-antagonist	28	0.7%	157	1.1%	-0.440	-0.047
NSAIDs	476	11.5%	1,456	10.4%	1.167	0.037

Page 65 of 702



Table 1k. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Proton pump inhibitors	464	11.2%	1,837	13.1%	-1.838	-0.056	
SSRI antidepressants	243	5.9%	820	5.8%	0.049	0.002	
Insulin	4	0.1%	21	0.1%	-0.053	-0.015	
Metformin (Biguanide)	31	0.8%	142	1.0%	-0.260	-0.028	
Sulfonylureas	7	0.2%	11	0.1%	0.091	0.026	
Other diabetes medications	11	0.3%	51	0.4%	-0.097	-0.017	
ACEI/ARB	533	12.9%	1,423	10.1%	2.784	0.087	
Antiarrhythmics	1,482	35.9%	3,830	27.3%	8.642	0.187	
Anti-coagulant (injectable)	292	7.1%	1,439	10.3%	-3.173	-0.113	
Anti-platelets	119	2.9%	696	5.0%	-2.073	-0.107	
Beta-blockers	2,328	56.4%	8,085	57.6%	-1.161	-0.023	
Calcium channel blockers	855	20.7%	2,902	20.7%	0.053	0.001	
Digoxin	330	8.0%	451	3.2%	4.787	0.209	
Diuretics (loop)	171	4.1%	573	4.1%	0.063	0.003	
Diuretics (potassium sparing)	92	2.2%	234	1.7%	0.563	0.041	
Diuretics (thiazide)	146	3.5%	337	2.4%	1.139	0.067	
Nitrates	32	0.8%	174	1.2%	-0.464	-0.046	
Statins	949	23.0%	3,045	21.7%	1.313	0.032	
Fibrates	62	1.5%	166	1.2%	0.320	0.028	
Amiodarone	229	5.6%	729	5.2%	0.358	0.016	
Dronedarone	315	7.6%	384	2.7%	4.901	0.222	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	3,278	79.5%	9,914	70.6%	8.839	0.205	
No ED encounters (past 31-183 days)	3,716	90.1%	12,297	87.6%	2.481	0.079	
At least 1 ED encounter (past 0-30 days)	847	20.5%	4,123	29.4%	-8.839	-0.205	

cder\_mpl2p\_wp047



Table 1k. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixaban Users				
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
At least 2 ED encounters (past 0-30 days)	115	2.8%	656	4.7%	-1.885	-0.100	
At least 1 ED encounter (past 31-183 days)	409	9.9%	1,740	12.4%	-2.481	-0.079	
At least 2 ED encounters (past 31-183 days)	86	2.1%	411	2.9%	-0.843	-0.054	

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 67 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1l. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	3,881	N/A	13,719	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	53.7	8.5	53.8	9.0	-0.119	-0.014	
Age							
21-49 years	1,050	27.1%	3,780	27.6%	-0.497	-0.011	
50-64 years	2,831	72.9%	9,939	72.4%	0.497	0.011	
Sex							
Female	0	0.0%	0	0.0%	NaN	NaN	
Male	3,881	100.0%	13,719	100.0%	0.000	NaN	
Race <sup>3</sup>							
American Indian or Alaska Native	0	0.0%	7	0.1%	NaN	NaN	
Asian	3	0.1%	38	0.3%	-0.202	-0.048	
Black or African American	9	0.2%	43	0.3%	-0.092	-0.018	
Native Hawaiian or Other Pacific Islander	2	0.0%	0	0.0%	NaN	NaN	
Unknown	3,631	93.6%	12,291	89.6%	3.965	0.172	
White	230	5.9%	1,290	9.4%	-3.479	-0.154	
Hispanic origin							
Yes	2	0.1%	62	0.5%	-0.390	-0.078	
No	59	1.5%	288	2.1%	-0.568	-0.052	
Unknown	3,819	98.4%	13,369	97.5%	0.959	0.079	
Year							
2010	102	2.6%	0	0.0%	NaN	NaN	
2011	1,308	33.7%	0	0.0%	NaN	NaN	
2012	934	24.1%	0	0.0%	NaN	NaN	

Page 68 of 702



Table 1l. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

		Medical Product					
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	536	13.8%	253	1.8%	11.969	0.457	
2014	254	6.5%	646	4.7%	1.827	0.079	
2015	185	4.8%	1,118	8.2%	-3.380	-0.138	
2016	213	5.5%	1,421	10.4%	-4.869	-0.181	
2017	135	3.5%	1,625	11.8%	-8.358	-0.318	
2018	106	2.7%	1,884	13.7%	-10.993	-0.408	
2019	57	1.5%	2,009	14.6%	-13.173	-0.499	
2020	32	0.8%	2,116	15.4%	-14.608	-0.555	
2021	13	0.3%	2,347	17.1%	-16.762	-0.622	
2022	6	0.2%	301	2.2%	-2.044	-0.191	
CHADVASC							
mean, std	0.0	NaN	0.0	NaN	0.000	NaN	
0	3,881	100.0%	13,719	100.0%	0.000	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	0	0.0%	0	0.0%	NaN	NaN	
3	0	0.0%	0	0.0%	NaN	NaN	
4	0	0.0%	0	0.0%	NaN	NaN	
>= 5	0	0.0%	0	0.0%	NaN	NaN	
HASBLED							
mean, std	0.1	0.3	0.1	0.3	-0.008	-0.024	
0	3,547	91.4%	12,437	90.7%	0.727	0.025	
1	309	8.0%	1,184	8.6%	-0.677	-0.025	
2	26	0.7%	98	0.7%	-0.050	-0.006	
>= 3	0	0.0%	0	0.0%	NaN	NaN	

Page 69 of 702



Table 1l. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Health Characteristics							
Diabetes	7	0.2%	30	0.2%	-0.041	-0.009	
Hypercholesterolemia	533	13.7%	1,886	13.7%	-0.025	-0.001	
Hypertension	77	2.0%	306	2.2%	-0.234	-0.016	
Kidney failure (chronic)	30	0.8%	132	1.0%	-0.186	-0.020	
Kidney failure (acute)	46	1.2%	197	1.4%	-0.255	-0.023	
Obesity	504	13.0%	2,117	15.4%	-2.439	-0.070	
Peptic ulcer disease	2	0.1%	12	0.1%	-0.028	-0.010	
Nicotine dependency	545	14.1%	2,146	15.6%	-1.592	-0.045	
Hospitalized AMI (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN	
Hospitalized AMI (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN	
Coronary revascularization	66	1.7%	251	1.8%	-0.126	-0.010	
Hospitalized heart failure	0	0.0%	0	0.0%	NaN	NaN	
Outpatient heart failure	185	4.8%	622	4.5%	0.228	0.011	
Other ischemic heart disease	453	11.7%	1,625	11.8%	-0.181	-0.006	
Hospitalized Thromboembolic Stroke (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN	
Hospitalized Thromboembolic Stroke (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN	
Transient ischemic attack	0	0.0%	0	0.0%	NaN	NaN	
Other medical conditions (falls, fractures, syncope)	230	5.9%	853	6.2%	-0.304	-0.013	
Cardioversion	622	16.0%	2,223	16.2%	-0.177	-0.005	
Cardioablation	260	6.7%	871	6.4%	0.350	0.014	
Hospitalized for bleeding	7	0.2%	24	0.2%	0.007	0.002	
Medical Product Use							



Table 1l. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Estrogen replacement	0	0.0%	0	0.0%	NaN	NaN
H2-antagonist	32	0.8%	127	0.9%	-0.093	-0.010
NSAIDs	419	10.8%	1,447	10.5%	0.246	0.008
Proton pump inhibitors	478	12.3%	1,699	12.4%	-0.082	-0.002
SSRI antidepressants	222	5.7%	786	5.7%	-0.001	-0.000
Insulin	3	0.1%	9	0.1%	0.018	0.007
Metformin (Biguanide)	32	0.8%	118	0.9%	-0.033	-0.004
Sulfonylureas	3	0.1%	10	0.1%	0.004	0.001
Other diabetes medications	8	0.2%	37	0.3%	-0.070	-0.014
ACEI/ARB	432	11.1%	1,458	10.6%	0.510	0.016
Antiarrhythmics	1,181	30.4%	4,008	29.2%	1.217	0.027
Anti-coagulant (injectable)	330	8.5%	1,291	9.4%	-0.905	-0.032
Anti-platelets	137	3.5%	597	4.4%	-0.832	-0.043
Beta-blockers	2,207	56.9%	7,861	57.3%	-0.437	-0.009
Calcium channel blockers	779	20.1%	2,823	20.6%	-0.516	-0.013
Digoxin	188	4.9%	574	4.2%	0.666	0.032
Diuretics (loop)	158	4.1%	547	4.0%	0.090	0.005
Diuretics (potassium sparing)	76	2.0%	244	1.8%	0.174	0.013
Diuretics (thiazide)	105	2.7%	359	2.6%	0.092	0.006
Nitrates	35	0.9%	152	1.1%	-0.198	-0.020
Statins	835	21.5%	2,990	21.8%	-0.273	-0.007
Fibrates	48	1.2%	173	1.3%	-0.013	-0.001
Amiodarone	199	5.1%	716	5.2%	-0.087	-0.004
Dronedarone	170	4.4%	504	3.7%	0.709	0.036

cder\_mpl2p\_wp047 Page 71 of 702



Table 1l. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0

	Medical Product					te Balance
	Dabigatran Users		Apixab	Apixaban Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	2,883	74.3%	10,048	73.2%	1.036	0.024
No ED encounters (past 31-183 days)	3,449	88.9%	12,143	88.5%	0.370	0.012
At least 1 ED encounter (past 0-30 days)	998	25.7%	3,671	26.8%	-1.036	-0.024
At least 2 ED encounters (past 0-30 days)	140	3.6%	531	3.9%	-0.258	-0.014
At least 1 ED encounter (past 31-183 days)	432	11.1%	1,577	11.5%	-0.370	-0.012
At least 2 ED encounters (past 31-183 days)	97	2.5%	349	2.5%	-0.037	-0.002

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 72 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1m. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	7,293	100.0%	30,310	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	56.0	7.4	56.5	7.3	-0.586	-0.080	
Age							
21-49 years	1,332	18.3%	4,991	16.5%	1.798	0.047	
50-64 years	5,961	81.7%	25,319	83.5%	-1.798	-0.047	
Sex							
Female	1,098	15.1%	5,907	19.5%	-4.433	-0.117	
Male	6,195	84.9%	24,403	80.5%	4.433	0.117	
Race <sup>3</sup>							
American Indian or Alaska Native	1	0.0%	14	0.0%	-0.032	-0.019	
Asian	11	0.2%	49	0.2%	-0.011	-0.003	
Black or African American	39	0.5%	329	1.1%	-0.551	-0.061	
Native Hawaiian or Other Pacific Islander	5	0.1%	14	0.0%	0.022	0.009	
Unknown	6,667	91.4%	26,153	86.3%	5.131	0.164	
White	553	7.6%	3,622	11.9%	-4.367	-0.148	
Hispanic origin							
Yes	15	0.2%	125	0.4%	-0.207	-0.037	
No	264	3.6%	1,787	5.9%	-2.276	-0.107	
Unknown	7,014	96.2%	28,398	93.7%	2.483	0.113	
Year							
2010	181	2.5%	0	0.0%	NaN	NaN	
2011	2,506	34.4%	0	0.0%	NaN	NaN	
2012	1,703	23.4%	0	0.0%	NaN	NaN	
2013	857	11.8%	517	1.7%	10.045	0.409	



Table 1m. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

		Medical Product				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	577	7.9%	1,263	4.2%	3.745	0.158
2015	379	5.2%	2,333	7.7%	-2.500	-0.102
2016	448	6.1%	3,005	9.9%	-3.771	-0.139
2017	285	3.9%	3,674	12.1%	-8.214	-0.306
2018	178	2.4%	4,145	13.7%	-11.235	-0.422
2019	104	1.4%	4,660	15.4%	-13.948	-0.520
2020	42	0.6%	4,682	15.4%	-14.871	-0.570
2021	25	0.3%	5,338	17.6%	-17.269	-0.634
2022	8	0.1%	693	2.3%	-2.177	-0.201
CHADVASC						
mean, std	1.0	0.0	1.0	0.0	0.000	NaN
0	0	0.0%	0	0.0%	NaN	NaN
1	7,293	100.0%	30,310	100.0%	0.000	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	0	0.0%	0	0.0%	NaN	NaN
4	0	0.0%	0	0.0%	NaN	NaN
>= 5	0	0.0%	0	0.0%	NaN	NaN
HASBLED						
mean, std	0.9	0.6	0.9	0.7	-0.037	-0.058
0	1,604	22.0%	7,111	23.5%	-1.467	-0.035
1	4,949	67.9%	18,957	62.5%	5.316	0.112
2	653	9.0%	3,538	11.7%	-2.719	-0.089
>= 3	87	1.2%	704	2.3%	-1.130	-0.086
Health Characteristics						
Diabetes	323	4.4%	951	3.1%	1.291	0.068

cder\_mpl2p\_wp047 Page 74 of 702



Table 1m. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

			Covariate Balance			
	Dabigati	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	1,853	25.4%	7,536	24.9%	0.545	0.013
Hypertension	5,466	74.9%	22,019	72.6%	2.303	0.052
Kidney failure (chronic)	140	1.9%	1,060	3.5%	-1.578	-0.097
Kidney failure (acute)	120	1.6%	1,226	4.0%	-2.399	-0.145
Obesity	1,349	18.5%	9,832	32.4%	-13.941	-0.324
Peptic ulcer disease	15	0.2%	79	0.3%	-0.055	-0.011
Nicotine dependency	1,115	15.3%	7,389	24.4%	-9.089	-0.229
Hospitalized AMI (past 0-30 days)	8	0.1%	102	0.3%	-0.227	-0.048
Hospitalized AMI (past 31-183 days)	3	0.0%	27	0.1%	-0.048	-0.019
Coronary revascularization	341	4.7%	1,728	5.7%	-1.025	-0.046
Hospitalized heart failure	264	3.6%	1,097	3.6%	0.001	0.000
Outpatient heart failure	565	7.7%	2,062	6.8%	0.944	0.036
Other ischemic heart disease	1,569	21.5%	6,559	21.6%	-0.126	-0.003
Hospitalized Thromboembolic Stroke (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN
Hospitalized Thromboembolic Stroke (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN
Transient ischemic attack	5	0.1%	21	0.1%	-0.001	-0.000
Other medical conditions (falls, fractures, syncope)	442	6.1%	2,433	8.0%	-1.966	-0.077
Cardioversion	1,313	18.0%	4,709	15.5%	2.467	0.066
Cardioablation	499	6.8%	1,491	4.9%	1.923	0.082
Hospitalized for bleeding	22	0.3%	107	0.4%	-0.051	-0.009
Medical Product Use						
Estrogen replacement	181	2.5%	721	2.4%	0.103	0.007
H2-antagonist	108	1.5%	619	2.0%	-0.561	-0.043
NSAIDs	1,034	14.2%	4,710	15.5%	-1.361	-0.038

cder\_mpl2p\_wp047 Page 75 of 702



Table 1m. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Proton pump inhibitors	1,164	16.0%	5,664	18.7%	-2.726	-0.072	
SSRI antidepressants	623	8.5%	3,099	10.2%	-1.682	-0.058	
Insulin	60	0.8%	147	0.5%	0.338	0.042	
Metformin (Biguanide)	258	3.5%	957	3.2%	0.380	0.021	
Sulfonylureas	63	0.9%	138	0.5%	0.409	0.050	
Other diabetes medications	79	1.1%	302	1.0%	0.087	0.009	
ACEI/ARB	3,419	46.9%	14,092	46.5%	0.388	0.008	
Antiarrhythmics	2,687	36.8%	8,568	28.3%	8.576	0.184	
Anti-coagulant (injectable)	503	6.9%	3,425	11.3%	-4.403	-0.154	
Anti-platelets	430	5.9%	2,700	8.9%	-3.012	-0.115	
Beta-blockers	4,921	67.5%	21,180	69.9%	-2.402	-0.052	
Calcium channel blockers	2,520	34.6%	10,923	36.0%	-1.484	-0.031	
Digoxin	676	9.3%	1,217	4.0%	5.254	0.212	
Diuretics (loop)	660	9.0%	2,802	9.2%	-0.195	-0.007	
Diuretics (potassium sparing)	344	4.7%	1,435	4.7%	-0.018	-0.001	
Diuretics (thiazide)	1,363	18.7%	5,696	18.8%	-0.103	-0.003	
Nitrates	207	2.8%	983	3.2%	-0.405	-0.024	
Statins	2,713	37.2%	11,293	37.3%	-0.058	-0.001	
Fibrates	297	4.1%	838	2.8%	1.308	0.072	
Amiodarone	542	7.4%	2,363	7.8%	-0.364	-0.014	
Dronedarone	600	8.2%	890	2.9%	5.291	0.232	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	5,625	77.1%	21,333	70.4%	6.746	0.154	
No ED encounters (past 31-183 days)	6,339	86.9%	25,308	83.5%	3.422	0.096	
At least 1 ED encounter (past 0-30 days)	1,668	22.9%	8,977	29.6%	-6.746	-0.154	

cder\_mpl2p\_wp047



Table 1m. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixaban Users				
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
At least 2 ED encounters (past 0-30 days)	279	3.8%	1,775	5.9%	-2.031	-0.095	
At least 1 ED encounter (past 31-183 days)	954	13.1%	5,002	16.5%	-3.422	-0.096	
At least 2 ED encounters (past 31-183 days)	235	3.2%	1,309	4.3%	-1.096	-0.058	

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 77 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1n. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	6,746	N/A	30,000	N/A	N/A	N/A	
Demographic Characteristics							
Age (years)	56.2	7.2	56.4	7.4	-0.224	-0.031	
Age							
21-49 years	1,155	17.1%	5,063	16.9%	0.243	0.006	
50-64 years	5,591	82.9%	24,938	83.1%	-0.243	-0.006	
Sex							
Female	1,195	17.7%	5,577	18.6%	-0.881	-0.023	
Male	5,551	82.3%	24,424	81.4%	0.881	0.023	
Race <sup>3</sup>							
American Indian or Alaska Native	2	0.0%	13	0.0%	-0.018	-0.009	
Asian	9	0.1%	50	0.2%	-0.035	-0.009	
Black or African American	39	0.6%	309	1.0%	-0.449	-0.051	
Native Hawaiian or Other Pacific Islander	6	0.1%	12	0.0%	0.051	0.020	
Unknown	6,149	91.1%	26,056	86.9%	4.294	0.174	
White	525	7.8%	3,431	11.4%	-3.648	-0.150	
Hispanic origin							
Yes	13	0.2%	124	0.4%	-0.229	-0.042	
No	260	3.9%	1,617	5.4%	-1.538	-0.106	
Unknown	6,474	96.0%	28,259	94.2%	1.767	0.115	
Year							
2010	151	2.2%	0	0.0%	NaN	NaN	
2011	2,157	32.0%	0	0.0%	NaN	NaN	
2012	1,527	22.6%	0	0.0%	NaN	NaN	



Table 1n. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

		Covariate Balance				
	Dabigatra	n Users	Apixab	Apixaban Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2013	766	11.4%	564	1.9%	9.473	0.388
2014	565	8.4%	1,345	4.5%	3.895	0.159
2015	387	5.7%	2,425	8.1%	-2.352	-0.093
2016	478	7.1%	3,039	10.1%	-3.047	-0.109
2017	319	4.7%	3,665	12.2%	-7.492	-0.272
2018	203	3.0%	4,070	13.6%	-10.563	-0.391
2019	112	1.7%	4,519	15.1%	-13.398	-0.499
2020	43	0.6%	4,542	15.1%	-14.499	-0.559
2021	28	0.4%	5,159	17.2%	-16.788	-0.621
2022	11	0.2%	673	2.2%	-2.085	-0.192
CHADVASC						
mean, std	1.0	0.0	1.0	0.0	0.000	NaN
0	0	0.0%	0	0.0%	NaN	NaN
1	6,746	100.0%	30,000	100.0%	0.000	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	0	0.0%	0	0.0%	NaN	NaN
4	0	0.0%	0	0.0%	NaN	NaN
>= 5	0	0.0%	0	0.0%	NaN	NaN
HASBLED						
mean, std	0.9	0.6	0.9	0.7	-0.014	-0.021
0	1,551	23.0%	6,936	23.1%	-0.128	-0.003
1	4,383	65.0%	19,131	63.8%	1.205	0.025
2	695	10.3%	3,321	11.1%	-0.761	-0.025
>= 3	116	1.7%	612	2.0%	-0.315	-0.023

Page 79 of 702



Table 1n. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

			Covariate Balance			
	Dabigatr	ran Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	241	3.6%	1,009	3.4%	0.207	0.011
Hypercholesterolemia	1,662	24.6%	7,477	24.9%	-0.281	-0.007
Hypertension	4,970	73.7%	21,953	73.2%	0.505	0.011
Kidney failure (chronic)	171	2.5%	927	3.1%	-0.556	-0.034
Kidney failure (acute)	164	2.4%	1,030	3.4%	-0.998	-0.059
Obesity	1,765	26.2%	8,889	29.6%	-3.469	-0.077
Peptic ulcer disease	15	0.2%	73	0.2%	-0.017	-0.004
Nicotine dependency	1,305	19.3%	6,698	22.3%	-2.977	-0.074
Hospitalized AMI (past 0-30 days)	12	0.2%	70	0.2%	-0.058	-0.013
Hospitalized AMI (past 31-183 days)	5	0.1%	21	0.1%	-0.000	-0.000
Coronary revascularization	335	5.0%	1,622	5.4%	-0.437	-0.020
Hospitalized heart failure	247	3.7%	1,093	3.6%	0.024	0.001
Outpatient heart failure	496	7.3%	2,100	7.0%	0.348	0.014
Other ischemic heart disease	1,435	21.3%	6,456	21.5%	-0.249	-0.006
Hospitalized Thromboembolic Stroke (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN
Hospitalized Thromboembolic Stroke (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN
Transient ischemic attack	3	0.0%	15	0.0%	0.002	0.001
Other medical conditions (falls, fractures, syncope)	481	7.1%	2,273	7.6%	-0.451	-0.017
Cardioversion	1,120	16.6%	4,802	16.0%	0.599	0.016
Cardioablation	369	5.5%	1,571	5.2%	0.231	0.010
Hospitalized for bleeding	17	0.3%	99	0.3%	-0.076	-0.014

cder\_mpl2p\_wp047



Table 1n. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

	Medical Product					Covariate Balance	
	Dabigatr	an Users	Apixab	an Users			
Patient Characteristics <sup>1</sup>	Number/Mean	Percent/Standard Deviation <sup>2</sup>	Number/Mean	Percent/Standard Deviation <sup>2</sup>	Absolute Difference	Standardized Difference	
Medical Product Use							
Estrogen replacement	164	2.4%	718	2.4%	0.039	0.003	
H2-antagonist	108	1.6%	580	1.9%	-0.333	-0.025	
NSAIDs	999	14.8%	4,578	15.3%	-0.448	-0.013	
Proton pump inhibitors	1,171	17.4%	5,418	18.1%	-0.705	-0.019	
SSRI antidepressants	628	9.3%	2,969	9.9%	-0.592	-0.020	
Insulin	38	0.6%	160	0.5%	0.026	0.003	
Metformin (Biguanide)	210	3.1%	963	3.2%	-0.096	-0.005	
Sulfonylureas	40	0.6%	156	0.5%	0.080	0.011	
Other diabetes medications	65	1.0%	295	1.0%	-0.016	-0.002	
ACEI/ARB	3,161	46.9%	13,993	46.6%	0.219	0.004	
Antiarrhythmics	2,149	31.9%	8,964	29.9%	1.975	0.043	
Anti-coagulant (injectable)	576	8.5%	3,148	10.5%	-1.959	-0.068	
Anti-platelets	491	7.3%	2,471	8.2%	-0.960	-0.036	
Beta-blockers	4,626	68.6%	20,809	69.4%	-0.785	-0.017	
Calcium channel blockers	2,378	35.3%	10,709	35.7%	-0.444	-0.009	
Digoxin	392	5.8%	1,497	5.0%	0.817	0.036	
Diuretics (loop)	618	9.2%	2,761	9.2%	-0.035	-0.001	
Diuretics (potassium sparing)	312	4.6%	1,419	4.7%	-0.099	-0.005	
Diuretics (thiazide)	1,260	18.7%	5,646	18.8%	-0.137	-0.004	
Nitrates	200	3.0%	934	3.1%	-0.146	-0.008	
Statins	2,468	36.6%	11,150	37.2%	-0.578	-0.012	
Fibrates	212	3.1%	901	3.0%	0.145	0.008	
Amiodarone	513	7.6%	2,310	7.7%	-0.094	-0.004	

cder\_mpl2p\_wp047 Page 81 of 702



Table 1n. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

		Medica	l Product		Covariate Balance	
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	333	4.9%	1,163	3.9%	1.058	0.052
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	4,955	73.4%	21,665	72.2%	1.235	0.028
No ED encounters (past 31-183 days)	5,754	85.3%	25,333	84.4%	0.852	0.024
At least 1 ED encounter (past 0-30 days)	1,791	26.6%	8,336	27.8%	-1.235	-0.028
At least 2 ED encounters (past 0-30 days)	337	5.0%	1,567	5.2%	-0.229	-0.011
At least 1 ED encounter (past 31-183 days)	992	14.7%	4,667	15.6%	-0.852	-0.024
At least 2 ED encounters (past 31-183 days)	262	3.9%	1,174	3.9%	-0.026	-0.001

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 82 of 702

 $<sup>^2\</sup>mbox{\sc Value}$  represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1o. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	5,417	100.0%	25,743	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	57.5	6.2	57.6	6.3	-0.132	-0.021	
Age							
21-49 years	689	12.7%	3,075	11.9%	0.774	0.024	
50-64 years	4,728	87.3%	22,668	88.1%	-0.774	-0.024	
Sex							
Female	1,918	35.4%	10,556	41.0%	-5.598	-0.115	
Male	3,499	64.6%	15,187	59.0%	5.598	0.115	
Race <sup>3</sup>							
American Indian or Alaska Native	3	0.1%	25	0.1%	-0.042	-0.015	
Asian	6	0.1%	55	0.2%	-0.103	-0.026	
Black or African American	77	1.4%	739	2.9%	-1.449	-0.100	
Native Hawaiian or Other Pacific Islander	3	0.1%	20	0.1%	-0.022	-0.009	
Unknown	4,759	87.9%	20,690	80.4%	7.482	0.206	
White	564	10.4%	4,092	15.9%	-5.484	-0.163	
Hispanic origin							
Yes	18	0.3%	127	0.5%	-0.161	-0.025	
No	415	7.7%	3,002	11.7%	-4.000	-0.136	
Unknown	4,984	92.0%	22,614	87.8%	4.161	0.139	
Year							
2010	123	2.3%	0	0.0%	NaN	NaN	
2011	1,830	33.8%	0	0.0%	NaN	NaN	
2012	1,217	22.5%	0	0.0%	NaN	NaN	
2013	618	11.4%	384	1.5%	9.917	0.412	



Table 1o. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	444	8.2%	1,175	4.6%	3.632	0.149	
2015	271	5.0%	1,936	7.5%	-2.518	-0.104	
2016	347	6.4%	2,540	9.9%	-3.461	-0.127	
2017	258	4.8%	3,166	12.3%	-7.536	-0.272	
2018	155	2.9%	3,540	13.8%	-10.890	-0.403	
2019	78	1.4%	3,998	15.5%	-14.091	-0.523	
2020	41	0.8%	4,020	15.6%	-14.859	-0.563	
2021	33	0.6%	4,437	17.2%	-16.627	-0.610	
2022	2	0.0%	547	2.1%	-2.088	-0.203	
CHADVASC							
mean, std	2.0	0.0	2.0	0.0	0.000	NaN	
0	0	0.0%	0	0.0%	NaN	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	5,417	100.0%	25,743	100.0%	0.000	NaN	
3	0	0.0%	0	0.0%	NaN	NaN	
4	0	0.0%	0	0.0%	NaN	NaN	
>= 5	0	0.0%	0	0.0%	NaN	NaN	
HASBLED							
mean, std	1.1	0.6	1.3	0.7	-0.109	-0.177	
0	334	6.2%	1,623	6.3%	-0.139	-0.006	
1	4,118	76.0%	17,487	67.9%	8.091	0.181	
2	830	15.3%	5,283	20.5%	-5.200	-0.136	
>= 3	135	2.5%	1,350	5.2%	-2.752	-0.143	
Health Characteristics							
Diabetes	2,373	43.8%	7,912	30.7%	13.072	0.273	



Table 1o. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	1,717	31.7%	7,426	28.8%	2.850	0.062
Hypertension	4,988	92.1%	23,534	91.4%	0.661	0.024
Kidney failure (chronic)	236	4.4%	1,958	7.6%	-3.249	-0.137
Kidney failure (acute)	206	3.8%	2,304	9.0%	-5.147	-0.212
Obesity	1,569	29.0%	11,359	44.1%	-15.160	-0.319
Peptic ulcer disease	15	0.3%	102	0.4%	-0.119	-0.021
Nicotine dependency	953	17.6%	7,575	29.4%	-11.833	-0.282
Hospitalized AMI (past 0-30 days)	60	1.1%	497	1.9%	-0.823	-0.067
Hospitalized AMI (past 31-183 days)	22	0.4%	217	0.8%	-0.437	-0.055
Coronary revascularization	388	7.2%	2,322	9.0%	-1.857	-0.068
Hospitalized heart failure	783	14.5%	5,077	19.7%	-5.267	-0.140
Outpatient heart failure	774	14.3%	4,520	17.6%	-3.270	-0.089
Other ischemic heart disease	1,644	30.3%	7,665	29.8%	0.574	0.013
Hospitalized Thromboembolic Stroke (past 0-30 days)	25	0.5%	118	0.5%	0.003	0.000
Hospitalized Thromboembolic Stroke (past 31-183 days)	6	0.1%	51	0.2%	-0.087	-0.022
Transient ischemic attack	90	1.7%	338	1.3%	0.348	0.029
Other medical conditions (falls, fractures, syncope)	389	7.2%	2,371	9.2%	-2.029	-0.074
Cardioversion	904	16.7%	4,268	16.6%	0.109	0.003
Cardioablation	286	5.3%	1,007	3.9%	1.368	0.065
Hospitalized for bleeding	13	0.2%	127	0.5%	-0.253	-0.042
Medical Product Use						
Estrogen replacement	193	3.6%	947	3.7%	-0.116	-0.006
H2-antagonist	110	2.0%	743	2.9%	-0.856	-0.055

cder\_mpl2p\_wp047 Page 85 of 702



Table 1o. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
NSAIDs	925	17.1%	4,622	18.0%	-0.879	-0.023	
Proton pump inhibitors	1,078	19.9%	5,774	22.4%	-2.529	-0.062	
SSRI antidepressants	657	12.1%	3,547	13.8%	-1.650	-0.049	
Insulin	439	8.1%	1,285	5.0%	3.112	0.126	
Metformin (Biguanide)	1,347	24.9%	4,982	19.4%	5.513	0.133	
Sulfonylureas	588	10.9%	1,378	5.4%	5.502	0.203	
Other diabetes medications	627	11.6%	2,181	8.5%	3.102	0.103	
ACEI/ARB	3,344	61.7%	15,466	60.1%	1.653	0.034	
Antiarrhythmics	1,862	34.4%	7,249	28.2%	6.214	0.134	
Anti-coagulant (injectable)	388	7.2%	3,135	12.2%	-5.015	-0.170	
Anti-platelets	479	8.8%	3,156	12.3%	-3.417	-0.111	
Beta-blockers	3,892	71.8%	19,608	76.2%	-4.320	-0.099	
Calcium channel blockers	2,178	40.2%	9,910	38.5%	1.711	0.035	
Digoxin	677	12.5%	1,581	6.1%	6.356	0.220	
Diuretics (loop)	1,039	19.2%	5,737	22.3%	-3.105	-0.077	
Diuretics (potassium sparing)	475	8.8%	2,705	10.5%	-1.739	-0.059	
Diuretics (thiazide)	1,495	27.6%	6,717	26.1%	1.506	0.034	
Nitrates	296	5.5%	1,505	5.8%	-0.382	-0.017	
Statins	2,600	48.0%	11,895	46.2%	1.790	0.036	
Fibrates	367	6.8%	1,091	4.2%	2.537	0.111	
Amiodarone	554	10.2%	2,988	11.6%	-1.380	-0.044	
Dronedarone	378	7.0%	522	2.0%	4.950	0.240	
Health Service Utilization Intensity Metrics							
No ED encounters (past 0-30 days)	3,822	70.6%	16,647	64.7%	5.890	0.126	
No ED encounters (past 31-183 days)	4,513	83.3%	20,228	78.6%	4.735	0.121	

cder\_mpl2p\_wp047



Table 1o. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

	Medical Product					te Balance
	Dabigatran Users		Apixaban Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 1 ED encounter (past 0-30 days)	1,595	29.4%	9,096	35.3%	-5.890	-0.126
At least 2 ED encounters (past 0-30 days)	288	5.3%	2,132	8.3%	-2.965	-0.118
At least 1 ED encounter (past 31-183 days)	904	16.7%	5,515	21.4%	-4.735	-0.121
At least 2 ED encounters (past 31-183 days)	231	4.3%	1,781	6.9%	-2.654	-0.116

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 87 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1p. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

			Covariate Balance			
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Weighted patients	4,886	N/A	25,510	N/A	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	57.5	6.3	57.6	6.3	-0.097	-0.015
Age						
21-49 years	614	12.6%	3,036	11.9%	0.665	0.020
50-64 years	4,272	87.4%	22,474	88.1%	-0.665	-0.020
Sex						
Female	1,961	40.1%	10,256	40.2%	-0.061	-0.001
Male	2,925	59.9%	15,254	59.8%	0.061	0.001
Race <sup>3</sup>						
American Indian or Alaska Native	1	0.0%	25	0.1%	-0.066	-0.026
Asian	3	0.1%	58	0.2%	-0.160	-0.042
Black or African American	74	1.5%	712	2.8%	-1.267	-0.091
Native Hawaiian or Other Pacific Islander	3	0.1%	21	0.1%	-0.012	-0.004
Unknown	4,283	87.6%	20,554	80.6%	7.076	0.283
White	517	10.6%	4,020	15.8%	-5.179	-0.202
Hispanic origin						
Yes	19	0.4%	127	0.5%	-0.117	-0.018
No	379	7.8%	2,925	11.5%	-3.704	-0.237
Unknown	4,488	91.9%	22,458	88.0%	3.821	0.233
Year						
2010	97	2.0%	0	0.0%	NaN	NaN
2011	1,508	30.9%	0	0.0%	NaN	NaN
2012	1,027	21.0%	0	0.0%	NaN	NaN

cder\_mpl2p\_wp047 Page 88 of 702



Table 1p. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

		Medical Product					
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	556	11.4%	425	1.7%	9.713	0.401	
2014	415	8.5%	1,262	4.9%	3.541	0.142	
2015	254	5.2%	2,034	8.0%	-2.769	-0.112	
2016	363	7.4%	2,557	10.0%	-2.597	-0.092	
2017	286	5.9%	3,153	12.4%	-6.510	-0.228	
2018	186	3.8%	3,482	13.7%	-9.844	-0.354	
2019	101	2.1%	3,890	15.2%	-13.186	-0.483	
2020	50	1.0%	3,882	15.2%	-14.202	-0.539	
2021	42	0.9%	4,294	16.8%	-15.984	-0.588	
2022	3	0.1%	530	2.1%	-2.018	-0.198	
CHADVASC							
mean, std	2.0	0.0	2.0	0.0	0.000	NaN	
0	0	0.0%	0	0.0%	NaN	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	4,886	100.0%	25,510	100.0%	0.000	NaN	
3	0	0.0%	0	0.0%	NaN	NaN	
4	0	0.0%	0	0.0%	NaN	NaN	
>= 5	0	0.0%	0	0.0%	NaN	NaN	
HASBLED							
mean, std	1.2	0.6	1.2	0.6	-0.045	-0.072	
0	331	6.8%	1,611	6.3%	0.469	0.019	
1	3,512	71.9%	17,710	69.4%	2.451	0.054	
2	864	17.7%	4,989	19.6%	-1.876	-0.048	
>= 3	179	3.7%	1,200	4.7%	-1.044	-0.052	

cder\_mpl2p\_wp047 Page 89 of 702



Table 1p. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

		Medical	Product		Covaria	ite Balance	
	Dabigatr	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Health Characteristics							
Diabetes	1,749	35.8%	8,407	33.0%	2.836	0.060	
Hypercholesterolemia	1,430	29.3%	7,461	29.2%	0.019	0.000	
Hypertension	4,462	91.3%	23,359	91.6%	-0.246	-0.009	
Kidney failure (chronic)	291	6.0%	1,780	7.0%	-1.013	-0.041	
Kidney failure (acute)	265	5.4%	2,005	7.9%	-2.436	-0.098	
Obesity	1,858	38.0%	10,594	41.5%	-3.501	-0.072	
Peptic ulcer disease	15	0.3%	94	0.4%	-0.063	-0.011	
Nicotine dependency	1,134	23.2%	6,963	27.3%	-4.092	-0.095	
Hospitalized AMI (past 0-30 days)	65	1.3%	446	1.7%	-0.408	-0.033	
Hospitalized AMI (past 31-183 days)	28	0.6%	192	0.8%	-0.175	-0.022	
Coronary revascularization	378	7.7%	2,204	8.6%	-0.899	-0.033	
Hospitalized heart failure	813	16.6%	4,777	18.7%	-2.080	-0.055	
Outpatient heart failure	753	15.4%	4,336	17.0%	-1.581	-0.043	
Other ischemic heart disease	1,412	28.9%	7,602	29.8%	-0.896	-0.020	
Hospitalized Thromboembolic Stroke (past 0-30 days)	20	0.4%	114	0.4%	-0.037	-0.006	
Hospitalized Thromboembolic Stroke (past 31-183 days)	8	0.2%	35	0.1%	0.027	0.007	
Transient ischemic attack	71	1.5%	345	1.4%	0.109	0.009	
syncope)	404	8.3%	2,253	8.8%	-0.570	-0.020	
Cardioversion	818	16.7%	4,232	16.6%	0.147	0.004	
Cardioablation	206	4.2%	1,054	4.1%	0.087	0.004	
Hospitalized for bleeding	12	0.3%	107	0.4%	-0.169	-0.029	

cder\_mpl2p\_wp047



Table 1p. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Medical Product Use						
Estrogen replacement	172	3.5%	928	3.6%	-0.115	-0.006
H2-antagonist	109	2.2%	706	2.8%	-0.525	-0.034
NSAIDs	854	17.5%	4,554	17.9%	-0.369	-0.010
Proton pump inhibitors	1,025	21.0%	5,619	22.0%	-1.045	-0.026
SSRI antidepressants	638	13.1%	3,454	13.5%	-0.483	-0.014
Insulin	299	6.1%	1,408	5.5%	0.592	0.025
Metformin (Biguanide)	1,046	21.4%	5,179	20.3%	1.095	0.027
Sulfonylureas	357	7.3%	1,598	6.3%	1.038	0.041
Other diabetes medications	473	9.7%	2,291	9.0%	0.694	0.024
ACEI/ARB	2,943	60.2%	15,388	60.3%	-0.100	-0.002
Antiarrhythmics	1,503	30.8%	7,435	29.1%	1.606	0.035
Anti-coagulant (injectable)	431	8.8%	2,908	11.4%	-2.579	-0.087
Anti-platelets	508	10.4%	2,962	11.6%	-1.222	-0.039
Beta-blockers	3,607	73.8%	19,248	75.5%	-1.626	-0.037
Calcium channel blockers	1,906	39.0%	9,898	38.8%	0.217	0.004
Digoxin	401	8.2%	1,824	7.2%	1.050	0.039
Diuretics (loop)	983	20.1%	5,550	21.8%	-1.646	-0.041
Diuretics (potassium sparing)	454	9.3%	2,600	10.2%	-0.898	-0.030
Diuretics (thiazide)	1,309	26.8%	6,724	26.4%	0.427	0.010
Nitrates	264	5.4%	1,478	5.8%	-0.389	-0.017
Statins	2,262	46.3%	11,870	46.5%	-0.235	-0.005
Fibrates	249	5.1%	1,187	4.7%	0.433	0.020
Amiodarone	532	10.9%	2,902	11.4%	-0.486	-0.015

cder\_mpl2p\_wp047 Page 91 of 702



Table 1p. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2

		Medical	Product		Covariate Balance	
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	175	3.6%	683	2.7%	0.902	0.052
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	3,275	67.0%	16,884	66.2%	0.845	0.019
No ED encounters (past 31-183 days)	3,966	81.2%	20,291	79.5%	1.633	0.042
At least 1 ED encounter (past 0-30 days)	1,611	33.0%	8,626	33.8%	-0.845	-0.019
At least 2 ED encounters (past 0-30 days)	329	6.7%	1,938	7.6%	-0.875	-0.035
At least 1 ED encounter (past 31-183 days)	920	18.8%	5,219	20.5%	-1.633	-0.042
At least 2 ED encounters (past 31-183 days)	263	5.4%	1,615	6.3%	-0.943	-0.041

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 92 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1q. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

	Medical Product					Covariate Balance	
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	2,270	100.0%	15,433	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	57.9	6.2	58.0	6.0	-0.127	-0.021	
Age							
21-49 years	235	10.4%	1,600	10.4%	-0.015	-0.000	
50-64 years	2,035	89.6%	13,833	89.6%	0.015	0.000	
Sex							
Female	1,081	47.6%	5,880	38.1%	9.521	0.193	
Male	1,189	52.4%	9,553	61.9%	-9.521	-0.193	
Race <sup>3</sup>							
American Indian or Alaska Native	0	0.0%	18	0.1%	NaN	NaN	
Asian	5	0.2%	36	0.2%	-0.013	-0.003	
Black or African American	60	2.6%	760	4.9%	-2.281	-0.120	
Native Hawaiian or Other Pacific Islander	1	0.0%	25	0.2%	-0.118	-0.037	
Unknown	1,900	83.7%	11,335	73.4%	10.254	0.252	
White	301	13.3%	3,205	20.8%	-7.507	-0.201	
Hispanic origin							
Yes	10	0.4%	114	0.7%	-0.298	-0.039	
No	270	11.9%	2,914	18.9%	-6.987	-0.195	
Unknown	1,990	87.7%	12,405	80.4%	7.285	0.200	
Year							
2010	47	2.1%	0	0.0%	NaN	NaN	
2011	695	30.6%	0	0.0%	NaN	NaN	
2012	495	21.8%	0	0.0%	NaN	NaN	
2013	252	11.1%	163	1.1%	10.045	0.430	

cder\_mpl2p\_wp047 Page 93 of 702



Table 1q. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

		Medical Product				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	172	7.6%	476	3.1%	4.493	0.201
2015	146	6.4%	1,002	6.5%	-0.061	-0.002
2016	190	8.4%	1,483	9.6%	-1.239	-0.043
2017	114	5.0%	1,775	11.5%	-6.479	-0.237
2018	59	2.6%	2,092	13.6%	-10.956	-0.410
2019	44	1.9%	2,553	16.5%	-14.604	-0.521
2020	35	1.5%	2,577	16.7%	-15.156	-0.546
2021	19	0.8%	2,927	19.0%	-18.129	-0.637
2022	2	0.1%	385	2.5%	-2.407	-0.214
CHADVASC						
mean, std	3.0	0.0	3.0	0.0	0.000	NaN
0	0	0.0%	0	0.0%	NaN	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	2,270	100.0%	15,433	100.0%	0.000	NaN
4	0	0.0%	0	0.0%	NaN	NaN
>= 5	0	0.0%	0	0.0%	NaN	NaN
HASBLED						
mean, std	1.3	0.6	1.5	0.7	-0.141	-0.210
0	62	2.7%	458	3.0%	-0.236	-0.014
1	1,555	68.5%	9,148	59.3%	9.227	0.193
2	539	23.7%	4,354	28.2%	-4.468	-0.102
>= 3	114	5.0%	1,473	9.5%	-4.522	-0.175
Health Characteristics						
Diabetes	1,555	68.5%	10,351	67.1%	1.432	0.031

cder\_mpl2p\_wp047 Page 94 of 702



Table 1q. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Hypercholesterolemia	810	35.7%	5,588	36.2%	-0.525	-0.011	
Hypertension	2,170	95.6%	14,733	95.5%	0.130	0.006	
Kidney failure (chronic)	191	8.4%	2,019	13.1%	-4.668	-0.151	
Kidney failure (acute)	172	7.6%	2,299	14.9%	-7.320	-0.233	
Obesity	852	37.5%	8,168	52.9%	-15.393	-0.313	
Peptic ulcer disease	7	0.3%	87	0.6%	-0.255	-0.039	
Nicotine dependency	495	21.8%	5,490	35.6%	-13.767	-0.308	
Hospitalized AMI (past 0-30 days)	78	3.4%	967	6.3%	-2.830	-0.132	
Hospitalized AMI (past 31-183 days)	33	1.5%	423	2.7%	-1.287	-0.090	
Coronary revascularization	280	12.3%	2,425	15.7%	-3.378	-0.097	
Hospitalized heart failure	701	30.9%	4,640	30.1%	0.816	0.018	
Outpatient heart failure	503	22.2%	3,903	25.3%	-3.131	-0.074	
Other ischemic heart disease	855	37.7%	6,200	40.2%	-2.508	-0.051	
Hospitalized Thromboembolic Stroke (past 0-30 days)	81	3.6%	427	2.8%	0.801	0.046	
Hospitalized Thromboembolic Stroke (past 31-183 days)	33	1.5%	222	1.4%	0.015	0.001	
Transient ischemic attack	236	10.4%	934	6.1%	4.345	0.159	
syncope)	212	9.3%	1,808	11.7%	-2.376	-0.077	
Cardioversion	374	16.5%	2,400	15.6%	0.925	0.025	
Cardioablation	106	4.7%	539	3.5%	1.177	0.060	
Hospitalized for bleeding	15	0.7%	102	0.7%	-0.000	-0.000	
Medical Product Use							
Estrogen replacement	77	3.4%	391	2.5%	0.859	0.051	
H2-antagonist	69	3.0%	627	4.1%	-1.023	-0.055	
NSAIDs	383	16.9%	2,988	19.4%	-2.489	-0.065	

cder\_mpl2p\_wp047 Page 95 of 702



Table 1q. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

		Covariate Balance				
	Dabigatra	ın Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	512	22.6%	4,092	26.5%	-3.960	-0.092
SSRI antidepressants	387	17.0%	2,445	15.8%	1.206	0.033
Insulin	390	17.2%	2,701	17.5%	-0.321	-0.008
Metformin (Biguanide)	839	37.0%	6,165	39.9%	-2.987	-0.061
Sulfonylureas	370	16.3%	1,937	12.6%	3.749	0.107
Other diabetes medications	422	18.6%	3,202	20.7%	-2.157	-0.054
ACEI/ARB	1,573	69.3%	10,430	67.6%	1.713	0.037
Antiarrhythmics	804	35.4%	4,202	27.2%	8.191	0.177
Anti-coagulant (injectable)	181	8.0%	2,021	13.1%	-5.122	-0.167
Anti-platelets	323	14.2%	3,048	19.7%	-5.521	-0.147
Beta-blockers	1,703	75.0%	12,001	77.8%	-2.740	-0.065
Calcium channel blockers	973	42.9%	6,271	40.6%	2.230	0.045
Digoxin	332	14.6%	1,073	7.0%	7.673	0.249
Diuretics (loop)	695	30.6%	4,931	32.0%	-1.334	-0.029
Diuretics (potassium sparing)	268	11.8%	2,054	13.3%	-1.503	-0.045
Diuretics (thiazide)	663	29.2%	4,091	26.5%	2.699	0.060
Nitrates	206	9.1%	1,488	9.6%	-0.567	-0.019
Statins	1,271	56.0%	9,687	62.8%	-6.777	-0.138
Fibrates	188	8.3%	980	6.4%	1.932	0.074
Amiodarone	300	13.2%	2,282	14.8%	-1.571	-0.045
Dronedarone	127	5.6%	220	1.4%	4.169	0.228
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	1,468	64.7%	9,222	59.8%	4.915	0.101
No ED encounters (past 31-183 days)	1,764	77.7%	11,327	73.4%	4.315	0.101
At least 1 ED encounter (past 0-30 days)	802	35.3%	6,211	40.2%	-4.915	-0.101

cder\_mpl2p\_wp047 Page 96 of 702



Table 1q. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

		Covariate Balance				
	Dabigatran Users Apixal			an Users		
	Percent/Standard			Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	167	7.4%	1,702	11.0%	-3.671	-0.127
At least 1 ED encounter (past 31-183 days)	506	22.3%	4,106	26.6%	-4.315	-0.101
At least 2 ED encounters (past 31-183 days)	169	7.4%	1,600	10.4%	-2.922	-0.103

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 97 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1r. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	1,913	N/A	15,147	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	57.8	6.2	58.0	6.0	-0.177	-0.029	
Age							
21-49 years	207	10.8%	1,562	10.3%	0.498	0.016	
50-64 years	1,706	89.2%	13,585	89.7%	-0.498	-0.016	
Sex							
Female	813	42.5%	5,950	39.3%	3.216	0.066	
Male	1,100	57.5%	9,197	60.7%	-3.216	-0.066	
Race <sup>3</sup>							
American Indian or Alaska Native	0	0.0%	18	0.1%	NaN	NaN	
Asian	2	0.1%	36	0.2%	-0.135	-0.033	
Black or African American	58	3.0%	713	4.7%	-1.697	-0.094	
Native Hawaiian or Other Pacific Islander	1	0.1%	25	0.2%	-0.103	-0.030	
Unknown	1,600	83.6%	11,277	74.5%	9.187	0.369	
White	251	13.1%	3,024	20.0%	-6.855	-0.251	
Hispanic origin							
Yes	11	0.6%	111	0.7%	-0.179	-0.022	
No	233	12.2%	2,717	17.9%	-5.751	-0.356	
Unknown	1,669	87.3%	12,318	81.3%	5.930	0.350	
Year							
2010	30	1.6%	0	0.0%	NaN	NaN	
2011	513	26.8%	0	0.0%	NaN	NaN	
2012	382	20.0%	0	0.0%	NaN	NaN	

cder\_mpl2p\_wp047 Page 98 of 702



Table 1r. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

	Medical Product					Covariate Balance	
	Dabigatra	Dabigatran Users Apixaban Users					
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	195	10.2%	180	1.2%	8.983	0.396	
2014	141	7.4%	519	3.4%	3.936	0.175	
2015	128	6.7%	1,058	7.0%	-0.300	-0.012	
2016	199	10.4%	1,503	9.9%	0.461	0.015	
2017	126	6.6%	1,754	11.6%	-5.018	-0.175	
2018	74	3.8%	2,042	13.5%	-9.642	-0.348	
2019	48	2.5%	2,459	16.2%	-13.711	-0.484	
2020	49	2.6%	2,461	16.2%	-13.676	-0.482	
2021	27	1.4%	2,806	18.5%	-17.135	-0.598	
2022	2	0.1%	365	2.4%	-2.287	-0.206	
CHADVASC							
mean, std	3.0	0.0	3.0	0.0	0.000	NaN	
0	0	0.0%	0	0.0%	NaN	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	0	0.0%	0	0.0%	NaN	NaN	
3	1,913	100.0%	15,147	100.0%	0.000	NaN	
4	0	0.0%	0	0.0%	NaN	NaN	
>= 5	0	0.0%	0	0.0%	NaN	NaN	
HASBLED							
mean, std	1.4	0.7	1.4	0.7	-0.058	-0.085	
0	54	2.8%	401	2.6%	0.156	0.010	
1	1,220	63.8%	9,224	60.9%	2.860	0.059	
2	509	26.6%	4,188	27.6%	-1.042	-0.023	
>= 3	131	6.8%	1,334	8.8%	-1.973	-0.074	

cder\_mpl2p\_wp047 Page 99 of 702



Table 1r. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	1,281	67.0%	10,214	67.4%	-0.484	-0.010
Hypercholesterolemia	670	35.0%	5,473	36.1%	-1.134	-0.024
Hypertension	1,826	95.4%	14,509	95.8%	-0.349	-0.017
Kidney failure (chronic)	195	10.2%	1,884	12.4%	-2.243	-0.071
Kidney failure (acute)	210	11.0%	2,094	13.8%	-2.832	-0.086
Obesity	890	46.5%	7,726	51.0%	-4.468	-0.090
Peptic ulcer disease	5	0.2%	55	0.4%	-0.120	-0.022
Nicotine dependency	542	28.3%	5,072	33.5%	-5.177	-0.114
Hospitalized AMI (past 0-30 days)	88	4.6%	880	5.8%	-1.236	-0.056
Hospitalized AMI (past 31-183 days)	39	2.1%	380	2.5%	-0.450	-0.030
Coronary revascularization	262	13.7%	2,300	15.2%	-1.495	-0.043
Hospitalized heart failure	560	29.3%	4,559	30.1%	-0.804	-0.018
Outpatient heart failure	452	23.6%	3,773	24.9%	-1.286	-0.030
Other ischemic heart disease	748	39.1%	6,038	39.9%	-0.785	-0.016
Hospitalized Thromboembolic Stroke (past 0-30 days)	66	3.5%	433	2.9%	0.596	0.034
Hospitalized Thromboembolic Stroke (past 31-183 days)	31	1.6%	200	1.3%	0.275	0.023
Transient ischemic attack	161	8.4%	989	6.5%	1.888	0.072
syncope)	194	10.1%	1,722	11.4%	-1.244	-0.040
Cardioversion	303	15.9%	2,381	15.7%	0.145	0.004
Cardioablation	75	3.9%	556	3.7%	0.260	0.014
Hospitalized for bleeding	13	0.7%	90	0.6%	0.070	0.009

cder\_mpl2p\_wp047 Page 100 of 702



Table 1r. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

	Medical Product					Covariate Balance	
	Dabigatra	Dabigatran Users Apixaban Users					
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Medical Product Use							
Estrogen replacement	52	2.7%	394	2.6%	0.113	0.007	
H2-antagonist	62	3.2%	589	3.9%	-0.665	-0.036	
NSAIDs	343	17.9%	2,868	18.9%	-1.013	-0.026	
Proton pump inhibitors	463	24.2%	3,928	25.9%	-1.750	-0.041	
SSRI antidepressants	307	16.0%	2,427	16.0%	0.015	0.000	
Insulin	315	16.5%	2,656	17.5%	-1.087	-0.029	
Metformin (Biguanide)	735	38.4%	6,010	39.7%	-1.276	-0.026	
Sulfonylureas	262	13.7%	1,976	13.0%	0.653	0.019	
Other diabetes medications	364	19.0%	3,109	20.5%	-1.477	-0.037	
ACEI/ARB	1,310	68.5%	10,305	68.0%	0.446	0.010	
Antiarrhythmics	577	30.1%	4,266	28.2%	1.976	0.043	
Anti-coagulant (injectable)	184	9.6%	1,878	12.4%	-2.790	-0.091	
Anti-platelets	327	17.1%	2,873	19.0%	-1.887	-0.049	
Beta-blockers	1,462	76.5%	11,739	77.5%	-1.043	-0.025	
Calcium channel blockers	778	40.7%	6,194	40.9%	-0.198	-0.004	
Digoxin	187	9.8%	1,199	7.9%	1.853	0.065	
Diuretics (loop)	582	30.4%	4,821	31.8%	-1.424	-0.031	
Diuretics (potassium sparing)	229	12.0%	1,992	13.2%	-1.175	-0.036	
Diuretics (thiazide)	511	26.7%	4,061	26.8%	-0.118	-0.003	
Nitrates	163	8.5%	1,443	9.5%	-1.020	-0.036	
Statins	1,131	59.1%	9,377	61.9%	-2.761	-0.057	
Fibrates	140	7.3%	1,004	6.6%	0.694	0.027	
Amiodarone	274	14.3%	2,209	14.6%	-0.267	-0.008	

cder\_mpl2p\_wp047 Page 101 of 702



Table 1r. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3

		Covariate Balance				
	Dabigatran Users		Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	52	2.7%	275	1.8%	0.915	0.061
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	1,190	62.2%	9,229	60.9%	1.273	0.029
No ED encounters (past 31-183 days)	1,445	75.5%	11,250	74.3%	1.258	0.030
At least 1 ED encounter (past 0-30 days)	723	37.8%	5,918	39.1%	-1.273	-0.029
At least 2 ED encounters (past 0-30 days)	184	9.6%	1,558	10.3%	-0.681	-0.023
At least 1 ED encounter (past 31-183 days)	468	24.5%	3,897	25.7%	-1.258	-0.030
At least 2 ED encounters (past 31-183 days)	163	8.5%	1,467	9.7%	-1.180	-0.042

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 102 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1s. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Unique patients	802	100.0%	7,939	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	58.6	5.2	58.2	5.8	0.369	0.067
Age						
21-49 years	65	8.1%	749	9.4%	-1.330	-0.047
50-64 years	737	91.9%	7,190	90.6%	1.330	0.047
Sex						
Female	424	52.9%	3,843	48.4%	4.461	0.089
Male	378	47.1%	4,096	51.6%	-4.461	-0.089
Race <sup>3</sup>						
American Indian or Alaska Native	0	0.0%	13	0.2%	NaN	NaN
Asian	3	0.4%	16	0.2%	0.173	0.032
Black or African American	30	3.7%	567	7.1%	-3.401	-0.150
Native Hawaiian or Other Pacific Islander	3	0.4%	21	0.3%	0.110	0.019
Unknown	614	76.6%	5,225	65.8%	10.744	0.239
White	151	18.8%	2,071	26.1%	-7.258	-0.175
Hispanic origin						
Yes	3	0.4%	64	0.8%	-0.432	-0.056
No	163	20.3%	2,119	26.7%	-6.367	-0.151
Unknown	636	79.3%	5,756	72.5%	6.799	0.159
Year						
2010	13	1.6%	0	0.0%	NaN	NaN
2011	202	25.2%	0	0.0%	NaN	NaN
2012	151	18.8%	0	0.0%	NaN	NaN
2013	93	11.6%	50	0.6%	10.966	0.470

cder\_mpl2p\_wp047 Page 103 of 702



Table 1s. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	49	6.1%	145	1.8%	4.283	0.221
2015	45	5.6%	370	4.7%	0.950	0.043
2016	80	10.0%	774	9.7%	0.226	0.008
2017	68	8.5%	948	11.9%	-3.462	-0.115
2018	52	6.5%	1,071	13.5%	-7.007	-0.235
2019	22	2.7%	1,320	16.6%	-13.884	-0.483
2020	14	1.7%	1,378	17.4%	-15.612	-0.551
2021	9	1.1%	1,660	20.9%	-19.787	-0.666
2022	4	0.5%	223	2.8%	-2.310	-0.182
CHADVASC						
mean, std	4.0	0.0	4.0	0.0	0.000	NaN
0	0	0.0%	0	0.0%	NaN	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	0	0.0%	0	0.0%	NaN	NaN
4	802	100.0%	7,939	100.0%	0.000	NaN
>= 5	0	0.0%	0	0.0%	NaN	NaN
HASBLED						
mean, std	1.6	0.7	1.7	0.8	-0.118	-0.158
0	8	1.0%	60	0.8%	0.242	0.026
1	420	52.4%	3,768	47.5%	4.907	0.098
2	283	35.3%	2,807	35.4%	-0.070	-0.001
>= 3	91	11.3%	1,304	16.4%	-5.079	-0.147
<b>Health Characteristics</b>						
Diabetes	594	74.1%	6,479	81.6%	-7.545	-0.182

cder\_mpl2p\_wp047 Page 104 of 702



Table 1s. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	291	36.3%	3,117	39.3%	-2.978	-0.061
Hypertension	784	97.8%	7,813	98.4%	-0.657	-0.048
Kidney failure (chronic)	117	14.6%	1,773	22.3%	-7.744	-0.201
Kidney failure (acute)	94	11.7%	1,941	24.4%	-12.728	-0.335
Obesity	343	42.8%	4,675	58.9%	-16.118	-0.327
Peptic ulcer disease	6	0.7%	64	0.8%	-0.058	-0.007
Nicotine dependency	203	25.3%	3,147	39.6%	-14.328	-0.310
Hospitalized AMI (past 0-30 days)	61	7.6%	760	9.6%	-1.967	-0.070
Hospitalized AMI (past 31-183 days)	23	2.9%	440	5.5%	-2.674	-0.134
Coronary revascularization	157	19.6%	1,828	23.0%	-3.450	-0.084
Hospitalized heart failure	371	46.3%	4,206	53.0%	-6.720	-0.135
Outpatient heart failure	270	33.7%	3,274	41.2%	-7.574	-0.157
Other ischemic heart disease	390	48.6%	4,052	51.0%	-2.411	-0.048
Hospitalized Thromboembolic Stroke (past 0-30 days)	72	9.0%	436	5.5%	3.486	0.135
Hospitalized Thromboembolic Stroke (past 31-183 days)	41	5.1%	259	3.3%	1.850	0.092
Transient ischemic attack	195	24.3%	919	11.6%	12.738	0.337
syncope)	113	14.1%	1,269	16.0%	-1.895	-0.053
Cardioversion	106	13.2%	1,271	16.0%	-2.793	-0.079
Cardioablation	27	3.4%	287	3.6%	-0.248	-0.014
Hospitalized for bleeding	9	1.1%	89	1.1%	0.001	0.000
Medical Product Use						
Estrogen replacement	31	3.9%	219	2.8%	1.107	0.062
H2-antagonist	34	4.2%	422	5.3%	-1.076	-0.050
NSAIDs	143	17.8%	1,523	19.2%	-1.353	-0.035

cder\_mpl2p\_wp047 Page 105 of 702



Table 1s. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	228	28.4%	2,483	31.3%	-2.847	-0.062
SSRI antidepressants	136	17.0%	1,610	20.3%	-3.322	-0.085
Insulin	210	26.2%	2,395	30.2%	-3.983	-0.089
Metformin (Biguanide)	296	36.9%	3,634	45.8%	-8.866	-0.181
Sulfonylureas	146	18.2%	1,259	15.9%	2.346	0.062
Other diabetes medications	152	19.0%	2,067	26.0%	-7.083	-0.170
ACEI/ARB	571	71.2%	5,663	71.3%	-0.134	-0.003
Antiarrhythmics	287	35.8%	2,388	30.1%	5.706	0.122
Anti-coagulant (injectable)	83	10.3%	1,128	14.2%	-3.859	-0.118
Anti-platelets	174	21.7%	2,112	26.6%	-4.907	-0.115
Beta-blockers	622	77.6%	6,447	81.2%	-3.651	-0.090
Calcium channel blockers	333	41.5%	3,271	41.2%	0.320	0.006
Digoxin	119	14.8%	643	8.1%	6.739	0.213
Diuretics (loop)	322	40.1%	3,672	46.3%	-6.103	-0.123
Diuretics (potassium sparing)	126	15.7%	1,464	18.4%	-2.730	-0.073
Diuretics (thiazide)	227	28.3%	2,169	27.3%	0.983	0.022
Nitrates	116	14.5%	1,125	14.2%	0.293	0.008
Statins	516	64.3%	5,770	72.7%	-8.340	-0.180
Fibrates	69	8.6%	521	6.6%	2.041	0.077
Amiodarone	134	16.7%	1,508	19.0%	-2.287	-0.060
Dronedarone	36	4.5%	102	1.3%	3.204	0.192
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	471	58.7%	4,252	53.6%	5.170	0.104
No ED encounters (past 31-183 days)	522	65.1%	5,015	63.2%	1.918	0.040
At least 1 ED encounter (past 0-30 days)	331	41.3%	3,687	46.4%	-5.170	-0.104

cder\_mpl2p\_wp047 Page 106 of 702



Table 1s. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

	Medical Product					Covariate Balance	
	Dabigatran Users Api			an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
At least 2 ED encounters (past 0-30 days)	95	11.8%	1,178	14.8%	-2.993	-0.088	
At least 1 ED encounter (past 31-183 days)	280	34.9%	2,924	36.8%	-1.918	-0.040	
At least 2 ED encounters (past 31-183 days)	103	12.8%	1,317	16.6%	-3.746	-0.106	

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 107 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1t. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Weighted patients	661	N/A	7,121	N/A	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	58.4	5.2	58.4	5.7	-0.037	-0.007
Age						
21-49 years	57	8.6%	628	8.8%	-0.239	-0.009
50-64 years	605	91.4%	6,493	91.2%	0.239	0.009
Sex						
Female	346	52.4%	3,548	49.8%	2.557	0.051
Male	315	47.6%	3,573	50.2%	-2.557	-0.051
Race <sup>3</sup>						
American Indian or Alaska Native	0	0.0%	7	0.1%	NaN	NaN
Asian	1	0.2%	13	0.2%	0.011	0.002
Black or African American	27	4.1%	482	6.8%	-2.712	-0.128
Native Hawaiian or Other Pacific Islander	3	0.4%	19	0.3%	0.130	0.023
Unknown	515	77.8%	4,874	68.4%	9.403	0.375
White	114	17.2%	1,707	24.0%	-6.718	-0.230
Hispanic origin						
Yes	3	0.5%	45	0.6%	-0.132	-0.018
No	125	18.9%	1,773	24.9%	-6.004	-0.331
Unknown	533	80.6%	5,304	74.5%	6.136	0.332
Year						
2010	9	1.3%	0	0.0%	NaN	NaN
2011	139	21.1%	0	0.0%	NaN	NaN
2012	116	17.6%	0	0.0%	NaN	NaN

cder\_mpl2p\_wp047 Page 108 of 702



Table 1t. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

	Medical Product					te Balance
	Dabigatran Users Apixaban Users					
	Percent/Standard			Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2013	76	11.5%	53	0.7%	10.722	0.461
2014	35	5.4%	145	2.0%	3.325	0.176
2015	38	5.7%	358	5.0%	0.672	0.030
2016	85	12.8%	738	10.4%	2.473	0.077
2017	61	9.2%	885	12.4%	-3.221	-0.104
2018	54	8.1%	986	13.8%	-5.712	-0.183
2019	23	3.5%	1,166	16.4%	-12.858	-0.440
2020	13	1.9%	1,162	16.3%	-14.378	-0.516
2021	9	1.4%	1,440	20.2%	-18.832	-0.638
2022	3	0.5%	189	2.6%	-2.192	-0.178
CHADVASC						
mean, std	4.0	0.0	4.0	0.0	0.000	NaN
0	0	0.0%	0	0.0%	NaN	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	0	0.0%	0	0.0%	NaN	NaN
4	661	100.0%	7,121	100.0%	0.000	NaN
>= 5	0	0.0%	0	0.0%	NaN	NaN
HASBLED						
mean, std	1.6	0.7	1.7	0.8	-0.050	-0.066
0	7	1.1%	61	0.9%	0.225	0.023
1	339	51.3%	3,532	49.6%	1.707	0.034
2	227	34.3%	2,475	34.8%	-0.408	-0.009
>= 3	88	13.3%	1,054	14.8%	-1.523	-0.044

cder\_mpl2p\_wp047 Page 109 of 702



Table 1t. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Medica	l Product		Covaria	te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	505	76.4%	5,715	80.3%	-3.858	-0.094
Hypercholesterolemia	242	36.6%	2,737	38.4%	-1.830	-0.038
Hypertension	649	98.1%	7,012	98.5%	-0.346	-0.027
Kidney failure (chronic)	110	16.6%	1,427	20.0%	-3.460	-0.090
Kidney failure (acute)	102	15.4%	1,459	20.5%	-5.048	-0.132
Obesity	346	52.4%	3,959	55.6%	-3.217	-0.065
Peptic ulcer disease	3	0.5%	49	0.7%	-0.195	-0.025
Nicotine dependency	204	30.8%	2,497	35.1%	-4.224	-0.091
Hospitalized AMI (past 0-30 days)	55	8.3%	634	8.9%	-0.648	-0.023
Hospitalized AMI (past 31-183 days)	21	3.2%	335	4.7%	-1.525	-0.078
Coronary revascularization	136	20.6%	1,537	21.6%	-1.005	-0.025
Hospitalized heart failure	319	48.3%	3,661	51.4%	-3.148	-0.063
Outpatient heart failure	235	35.5%	2,788	39.2%	-3.638	-0.077
Other ischemic heart disease	317	48.0%	3,561	50.0%	-2.009	-0.040
Hospitalized Thromboembolic Stroke (past 0-30 days)	49	7.4%	426	6.0%	1.443	0.058
Hospitalized Thromboembolic Stroke (past 31-183 days)	32	4.8%	256	3.6%	1.221	0.061
Transient ischemic attack	113	17.0%	958	13.4%	3.569	0.100
syncope)	104	15.7%	1,083	15.2%	0.477	0.013
Cardioversion	100	15.1%	1,099	15.4%	-0.373	-0.010
Cardioablation	21	3.2%	257	3.6%	-0.386	-0.021
Hospitalized for bleeding	6	0.9%	73	1.0%	-0.173	-0.018
Medical Product Use						

cder\_mpl2p\_wp047 Page 110 of 702



Table 1t. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

	Medical Product					te Balance
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Estrogen replacement	23	3.4%	207	2.9%	0.501	0.029
H2-antagonist	28	4.2%	331	4.7%	-0.472	-0.023
NSAIDs	120	18.1%	1,305	18.3%	-0.248	-0.006
Proton pump inhibitors	202	30.6%	2,184	30.7%	-0.080	-0.002
SSRI antidepressants	114	17.3%	1,368	19.2%	-1.911	-0.050
Insulin	189	28.6%	2,100	29.5%	-0.847	-0.019
Metformin (Biguanide)	265	40.0%	3,130	44.0%	-3.950	-0.080
Sulfonylureas	113	17.1%	1,162	16.3%	0.829	0.022
Other diabetes medications	153	23.1%	1,741	24.5%	-1.389	-0.033
ACEI/ARB	473	71.6%	5,132	72.1%	-0.505	-0.011
Antiarrhythmics	216	32.7%	2,192	30.8%	1.871	0.040
Anti-coagulant (injectable)	78	11.9%	936	13.1%	-1.299	-0.040
Anti-platelets	157	23.7%	1,789	25.1%	-1.445	-0.034
Beta-blockers	521	78.8%	5,716	80.3%	-1.498	-0.037
Calcium channel blockers	272	41.1%	2,925	41.1%	0.007	0.000
Digoxin	68	10.3%	654	9.2%	1.136	0.038
Diuretics (loop)	266	40.3%	3,185	44.7%	-4.432	-0.091
Diuretics (potassium sparing)	103	15.6%	1,294	18.2%	-2.560	-0.068
Diuretics (thiazide)	177	26.7%	1,956	27.5%	-0.725	-0.016
Nitrates	84	12.7%	1,020	14.3%	-1.622	-0.048
Statins	450	68.0%	5,032	70.7%	-2.685	-0.058
Fibrates	43	6.4%	483	6.8%	-0.357	-0.014
Amiodarone	115	17.4%	1,314	18.5%	-1.063	-0.028
Dronedarone	15	2.3%	110	1.5%	0.744	0.054

cder\_mpl2p\_wp047 Page 111 of 702



Table 1t. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4

		Covaria	te Balance			
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	379	57.3%	4,053	56.9%	0.373	0.009
No ED encounters (past 31-183 days)	429	64.9%	4,619	64.9%	-0.002	-0.000
At least 1 ED encounter (past 0-30 days)	282	42.7%	3,068	43.1%	-0.373	-0.009
At least 2 ED encounters (past 0-30 days)	74	11.1%	930	13.1%	-1.917	-0.061
At least 1 ED encounter (past 31-183 days)	232	35.1%	2,503	35.1%	0.002	0.000
At least 2 ED encounters (past 31-183 days)	88	13.3%	1,066	15.0%	-1.654	-0.049

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 112 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1u. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	252	100.0%	2,738	100.0%	N/A	N/A	
Demographic Characteristics							
Age (years)	59.2	5.2	58.7	5.7	0.549	0.101	
Age							
21-49 years	12	4.8%	238	8.7%	-3.931	-0.157	
50-64 years	240	95.2%	2,500	91.3%	3.931	0.157	
Sex							
Female	185	73.4%	2,025	74.0%	-0.546	-0.012	
Male	67	26.6%	713	26.0%	0.546	0.012	
Race <sup>3</sup>							
American Indian or Alaska Native	0	0.0%	2	0.1%	NaN	NaN	
Asian	0	0.0%	6	0.2%	NaN	NaN	
Black or African American	12	4.8%	318	11.6%	-6.852	-0.252	
Native Hawaiian or Other Pacific Islander	0	0.0%	5	0.2%	NaN	NaN	
Unknown	190	75.4%	1,629	59.5%	15.901	0.344	
White	49	19.4%	772	28.2%	-8.751	-0.207	
Hispanic origin							
Yes	2	0.8%	31	1.1%	-0.339	-0.035	
No	49	19.4%	860	31.4%	-11.965	-0.277	
Unknown	201	79.8%	1,847	67.5%	12.304	0.282	
Year							
2010	5	2.0%	0	0.0%	NaN	NaN	
2011	66	26.2%	0	0.0%	NaN	NaN	
2012	47	18.7%	0	0.0%	NaN	NaN	
2013	26	10.3%	14	0.5%	9.806	0.444	

cder\_mpl2p\_wp047 Page 113 of 702



Table 1u. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

		Medical Product					
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	9	3.6%	58	2.1%	1.453	0.087	
2015	18	7.1%	125	4.6%	2.577	0.110	
2016	26	10.3%	272	9.9%	0.383	0.013	
2017	21	8.3%	275	10.0%	-1.710	-0.059	
2018	18	7.1%	370	13.5%	-6.371	-0.210	
2019	4	1.6%	410	15.0%	-13.387	-0.501	
2020	7	2.8%	528	19.3%	-16.506	-0.546	
2021	5	2.0%	604	22.1%	-20.076	-0.649	
2022	0	0.0%	82	3.0%	NaN	NaN	
CHADVASC							
mean, std	5.2	0.5	5.3	0.6	-0.114	-0.222	
0	0	0.0%	0	0.0%	NaN	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	0	0.0%	0	0.0%	NaN	NaN	
3	0	0.0%	0	0.0%	NaN	NaN	
4	0	0.0%	0	0.0%	NaN	NaN	
>= 5	252	100.0%	2,738	100.0%	0.000	NaN	
HASBLED							
mean, std	1.8	0.8	2.0	0.9	-0.199	-0.232	
0	3	1.2%	7	0.3%	0.935	0.111	
1	104	41.3%	895	32.7%	8.582	0.178	
2	97	38.5%	1,115	40.7%	-2.231	-0.046	
>= 3	48	19.0%	721	26.3%	-7.285	-0.175	
<b>Health Characteristics</b>							
Diabetes	211	83.7%	2,422	88.5%	-4.729	-0.137	

cder\_mpl2p\_wp047 Page 114 of 702



Table 1u. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Hypercholesterolemia	103	40.9%	1,191	43.5%	-2.626	-0.053	
Hypertension	249	98.8%	2,725	99.5%	-0.716	-0.079	
Kidney failure (chronic)	41	16.3%	704	25.7%	-9.442	-0.233	
Kidney failure (acute)	40	15.9%	801	29.3%	-13.382	-0.324	
Obesity	108	42.9%	1,647	60.2%	-17.296	-0.351	
Peptic ulcer disease	3	1.2%	36	1.3%	-0.124	-0.011	
Nicotine dependency	65	25.8%	1,158	42.3%	-16.500	-0.354	
Hospitalized AMI (past 0-30 days)	18	7.1%	243	8.9%	-1.732	-0.064	
Hospitalized AMI (past 31-183 days)	16	6.3%	179	6.5%	-0.188	-0.008	
Coronary revascularization	45	17.9%	681	24.9%	-7.015	-0.172	
Hospitalized heart failure	110	43.7%	1,750	63.9%	-20.264	-0.415	
Outpatient heart failure	80	31.7%	1,293	47.2%	-15.478	-0.321	
Other ischemic heart disease	134	53.2%	1,486	54.3%	-1.099	-0.022	
Hospitalized Thromboembolic Stroke (past 0-30 days)	53	21.0%	462	16.9%	4.158	0.106	
Hospitalized Thromboembolic Stroke (past 31-183 days)	28	11.1%	330	12.1%	-0.941	-0.029	
Transient ischemic attack	131	52.0%	1,001	36.6%	15.425	0.314	
syncope)	56	22.2%	594	21.7%	0.528	0.013	
Cardioversion	21	8.3%	290	10.6%	-2.258	-0.077	
Cardioablation	9	3.6%	71	2.6%	0.978	0.057	
Hospitalized for bleeding	8	3.2%	45	1.6%	1.531	0.100	
Medical Product Use							
Estrogen replacement	10	4.0%	76	2.8%	1.193	0.066	
H2-antagonist	18	7.1%	177	6.5%	0.678	0.027	
NSAIDs	49	19.4%	499	18.2%	1.219	0.031	

cder\_mpl2p\_wp047 Page 115 of 702



Table 1u. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

			Covariate Balance			
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	70	27.8%	958	35.0%	-7.211	-0.156
SSRI antidepressants	48	19.0%	690	25.2%	-6.153	-0.149
Insulin	68	27.0%	1,077	39.3%	-12.351	-0.265
Metformin (Biguanide)	109	43.3%	1,182	43.2%	0.084	0.002
Sulfonylureas	53	21.0%	451	16.5%	4.560	0.117
Other diabetes medications	48	19.0%	694	25.3%	-6.299	-0.152
ACEI/ARB	164	65.1%	1,967	71.8%	-6.761	-0.146
Antiarrhythmics	79	31.3%	736	26.9%	4.468	0.098
Anti-coagulant (injectable)	28	11.1%	445	16.3%	-5.142	-0.150
Anti-platelets	78	31.0%	948	34.6%	-3.671	-0.078
Beta-blockers	184	73.0%	2,217	81.0%	-7.956	-0.190
Calcium channel blockers	104	41.3%	1,156	42.2%	-0.951	-0.019
Digoxin	41	16.3%	204	7.5%	8.819	0.275
Diuretics (loop)	98	38.9%	1,372	50.1%	-11.221	-0.227
Diuretics (potassium sparing)	41	16.3%	514	18.8%	-2.503	-0.066
Diuretics (thiazide)	75	29.8%	750	27.4%	2.370	0.052
Nitrates	24	9.5%	457	16.7%	-7.167	-0.214
Statins	163	64.7%	2,164	79.0%	-14.353	-0.323
Fibrates	24	9.5%	181	6.6%	2.913	0.107
Amiodarone	29	11.5%	476	17.4%	-5.877	-0.168
Dronedarone	12	4.8%	25	0.9%	3.849	0.233
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	134	53.2%	1,352	49.4%	3.795	0.076
No ED encounters (past 31-183 days)	148	58.7%	1,486	54.3%	4.457	0.090
At least 1 ED encounter (past 0-30 days)	118	46.8%	1,386	50.6%	-3.795	-0.076

cder\_mpl2p\_wp047 Page 116 of 702



Table 1u. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

		Covariate Balance				
	Dabigatran Users Apix			an Users		
	Percent/Standard			Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	28	11.1%	470	17.2%	-6.055	-0.174
At least 1 ED encounter (past 31-183 days)	104	41.3%	1,252	45.7%	-4.457	-0.090
At least 2 ED encounters (past 31-183 days)	47	18.7%	649	23.7%	-5.053	-0.124

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 117 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1v. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Weighted patients	179	N/A	1,892	N/A	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	59.0	5.2	59.1	5.4	-0.043	-0.008	
Age							
21-49 years	8	4.5%	131	6.9%	-2.476	-0.107	
50-64 years	171	95.5%	1,761	93.1%	2.476	0.107	
Sex							
Female	131	73.0%	1,396	73.8%	-0.811	-0.018	
Male	48	27.0%	495	26.2%	0.811	0.018	
Race <sup>3</sup>							
American Indian or Alaska Native	0	0.0%	3	0.1%	NaN	NaN	
Asian	0	0.0%	4	0.2%	NaN	NaN	
Black or African American	5	2.9%	217	11.5%	-8.605	-0.366	
Native Hawaiian or Other Pacific Islander	0	0.0%	4	0.2%	NaN	NaN	
Unknown	140	78.3%	1,173	62.0%	16.250	0.720	
White	32	17.8%	489	25.9%	-8.035	-0.280	
Hispanic origin							
Yes	0	0.3%	17	0.9%	-0.630	-0.084	
No	32	17.6%	634	33.5%	-15.895	-1.042	
Unknown	147	82.1%	1,241	65.6%	16.525	1.153	
Year							
2010	4	2.1%	0	0.0%	NaN	NaN	
2011	37	20.6%	0	0.0%	NaN	NaN	
2012	28	15.5%	0	0.0%	NaN	NaN	

cder\_mpl2p\_wp047 Page 118 of 702



Table 1v. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2013	20	11.1%	13	0.7%	10.430	0.456
2014	9	4.8%	49	2.6%	2.268	0.120
2015	15	8.1%	94	5.0%	3.172	0.129
2016	23	13.0%	200	10.6%	2.395	0.074
2017	16	8.8%	192	10.2%	-1.370	-0.047
2018	17	9.7%	253	13.4%	-3.627	-0.115
2019	2	1.3%	296	15.6%	-14.296	-0.530
2020	5	2.9%	344	18.2%	-15.243	-0.512
2021	4	2.1%	394	20.8%	-18.764	-0.616
2022	0	0.0%	58	3.1%	NaN	NaN
CHADVASC						
mean, std	5.2	0.5	5.3	0.5	-0.080	-0.157
0	0	0.0%	0	0.0%	NaN	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
3	0	0.0%	0	0.0%	NaN	NaN
4	0	0.0%	0	0.0%	NaN	NaN
>= 5	179	100.0%	1,892	100.0%	0.000	NaN
HASBLED						
mean, std	1.8	0.8	1.9	0.8	-0.072	-0.089
0	0	0.2%	5	0.3%	-0.074	-0.015
1	71	39.5%	702	37.1%	2.370	0.049
2	78	43.6%	799	42.2%	1.343	0.027
>= 3	30	16.7%	385	20.4%	-3.638	-0.094

cder\_mpl2p\_wp047 Page 119 of 702



Table 1v. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

			Covariate Balance			
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	155	86.8%	1,642	86.8%	-0.057	-0.002
Hypercholesterolemia	74	41.1%	816	43.1%	-2.000	-0.040
Hypertension	179	99.8%	1,883	99.6%	0.230	0.041
Kidney failure (chronic)	31	17.1%	423	22.3%	-5.238	-0.134
Kidney failure (acute)	35	19.5%	447	23.6%	-4.071	-0.100
Obesity	94	52.7%	1,069	56.5%	-3.827	-0.077
Peptic ulcer disease	3	1.7%	12	0.6%	1.055	0.100
Nicotine dependency	51	28.3%	695	36.7%	-8.414	-0.184
Hospitalized AMI (past 0-30 days)	12	6.8%	156	8.2%	-1.407	-0.053
Hospitalized AMI (past 31-183 days)	9	5.2%	77	4.1%	1.096	0.053
Coronary revascularization	38	21.0%	414	21.9%	-0.943	-0.023
Hospitalized heart failure	94	52.4%	1,119	59.2%	-6.802	-0.138
Outpatient heart failure	63	35.3%	808	42.7%	-7.377	-0.157
Other ischemic heart disease	90	50.2%	1,003	53.0%	-2.838	-0.057
Hospitalized Thromboembolic Stroke (past 0-30 days)	37	20.7%	338	17.9%	2.817	0.072
Hospitalized Thromboembolic Stroke (past 31-183 days)	18	9.9%	197	10.4%	-0.576	-0.019
Transient ischemic attack	89	49.5%	784	41.5%	8.013	0.161
syncope)	36	20.1%	413	21.8%	-1.702	-0.042
Cardioversion	13	7.5%	187	9.9%	-2.364	-0.084
Cardioablation	7	3.9%	54	2.9%	1.029	0.057
Hospitalized for bleeding	4	2.0%	38	2.0%	-0.006	-0.000

cder\_mpl2p\_wp047 Page 120 of 702



Table 1v. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Medical Product Use							
Estrogen replacement	6	3.5%	56	3.0%	0.489	0.028	
H2-antagonist	9	5.0%	127	6.7%	-1.701	-0.073	
NSAIDs	28	15.5%	344	18.2%	-2.659	-0.071	
Proton pump inhibitors	52	29.2%	631	33.3%	-4.107	-0.089	
SSRI antidepressants	35	19.6%	448	23.7%	-4.061	-0.099	
Insulin	59	32.9%	686	36.3%	-3.415	-0.072	
Metformin (Biguanide)	81	45.4%	819	43.3%	2.134	0.043	
Sulfonylureas	27	15.3%	297	15.7%	-0.379	-0.010	
Other diabetes medications	48	26.7%	444	23.5%	3.248	0.075	
ACEI/ARB	120	67.2%	1,325	70.1%	-2.905	-0.062	
Antiarrhythmics	51	28.5%	514	27.2%	1.263	0.028	
Anti-coagulant (injectable)	20	11.1%	275	14.6%	-3.431	-0.104	
Anti-platelets	56	31.2%	622	32.9%	-1.726	-0.037	
Beta-blockers	140	78.1%	1,501	79.3%	-1.270	-0.031	
Calcium channel blockers	73	40.6%	782	41.3%	-0.708	-0.014	
Digoxin	24	13.3%	178	9.4%	3.868	0.121	
Diuretics (loop)	73	40.8%	889	47.0%	-6.226	-0.127	
Diuretics (potassium sparing)	30	16.7%	342	18.1%	-1.408	-0.037	
Diuretics (thiazide)	53	29.7%	541	28.6%	1.126	0.025	
Nitrates	25	13.9%	268	14.2%	-0.248	-0.007	
Statins	128	71.6%	1,437	76.0%	-4.348	-0.099	
Fibrates	11	5.9%	124	6.5%	-0.638	-0.026	
Amiodarone	24	13.4%	292	15.5%	-2.083	-0.059	

cder\_mpl2p\_wp047 Page 121 of 702



Table 1v. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+

		Medical Product				
	Dabigatran Users		Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	3	1.8%	27	1.4%	0.340	0.027
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	95	52.8%	1,014	53.6%	-0.799	-0.019
No ED encounters (past 31-183 days)	105	58.5%	1,082	57.2%	1.260	0.027
At least 1 ED encounter (past 0-30 days)	85	47.2%	878	46.4%	0.799	0.019
At least 2 ED encounters (past 0-30 days)	23	13.0%	261	13.8%	-0.748	-0.023
At least 1 ED encounter (past 31-183 days)	74	41.5%	809	42.8%	-1.260	-0.027
At least 2 ED encounters (past 31-183 days)	37	20.7%	388	20.5%	0.183	0.005

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 122 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1w. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

	Medical Product					Covariate Balance	
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	5,809	100.0%	21,862	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	54.0	8.4	54.7	8.6	-0.672	-0.079	
Age							
21-49 years	1,492	25.7%	5,227	23.9%	1.775	0.041	
50-64 years	4,317	74.3%	16,635	76.1%	-1.775	-0.041	
Sex							
Female	1,207	20.8%	6,375	29.2%	-8.382	-0.195	
Male	4,602	79.2%	15,487	70.8%	8.382	0.195	
Race <sup>3</sup>							
American Indian or Alaska Native	1	0.0%	11	0.1%	-0.033	-0.018	
Asian	11	0.2%	46	0.2%	-0.021	-0.005	
Black or African American	10	0.2%	138	0.6%	-0.459	-0.073	
Native Hawaiian or Other Pacific Islander	1	0.0%	5	0.0%	-0.006	-0.004	
Unknown	5,377	92.6%	19,247	88.0%	4.525	0.153	
White	398	6.9%	2,330	10.7%	-3.806	-0.135	
Hispanic origin							
Yes	7	0.1%	104	0.5%	-0.355	-0.065	
No	138	2.4%	843	3.9%	-1.480	-0.085	
Unknown	5,664	97.5%	20,915	95.7%	1.836	0.101	
Year							
2010	138	2.4%	0	0.0%	NaN	NaN	
2011	2,116	36.4%	0	0.0%	NaN	NaN	
2012	1,426	24.5%	0	0.0%	NaN	NaN	
2013	756	13.0%	352	1.6%	11.404	0.449	

cder\_mpl2p\_wp047 Page 123 of 702



Table 1w. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	373	6.4%	949	4.3%	2.080	0.092
2015	258	4.4%	1,744	8.0%	-3.536	-0.147
2016	293	5.0%	2,184	10.0%	-4.946	-0.188
2017	187	3.2%	2,563	11.7%	-8.504	-0.328
2018	126	2.2%	3,075	14.1%	-11.896	-0.446
2019	77	1.3%	3,258	14.9%	-13.577	-0.513
2020	37	0.6%	3,439	15.7%	-15.094	-0.573
2021	18	0.3%	3,800	17.4%	-17.072	-0.630
2022	4	0.1%	498	2.3%	-2.209	-0.206
CHADVASC						
mean, std	0.4	0.7	0.5	0.7	-0.118	-0.166
0	3,798	65.4%	12,603	57.6%	7.733	0.159
1	1,604	27.6%	7,111	32.5%	-4.914	-0.107
2	334	5.7%	1,623	7.4%	-1.674	-0.068
3	62	1.1%	458	2.1%	-1.028	-0.082
4	8	0.1%	60	0.3%	-0.137	-0.030
>= 5	3	0.1%	7	0.0%	0.020	0.010
HASBLED						
mean, std	0.0	NaN	0.0	NaN	NaN	NaN
0	5,809	100.0%	21,862	100.0%	0.000	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
>= 3	0	0.0%	0	0.0%	NaN	NaN
<b>Health Characteristics</b>						
Diabetes	474	8.2%	1,842	8.4%	-0.266	-0.010

cder\_mpl2p\_wp047 Page 124 of 702



Table 1w. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

	Medical Product					Covariate Balance	
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Hypercholesterolemia	814	14.0%	3,045	13.9%	0.084	0.002	
Hypertension	101	1.7%	729	3.3%	-1.596	-0.102	
Kidney failure (chronic)	2	0.0%	25	0.1%	-0.080	-0.029	
Kidney failure (acute)	56	1.0%	447	2.0%	-1.081	-0.089	
Obesity	617	10.6%	4,708	21.5%	-10.914	-0.300	
Peptic ulcer disease	0	0.0%	3	0.0%	NaN	NaN	
Nicotine dependency	719	12.4%	4,111	18.8%	-6.427	-0.178	
Hospitalized AMI (past 0-30 days)	33	0.6%	222	1.0%	-0.447	-0.050	
Hospitalized AMI (past 31-183 days)	6	0.1%	57	0.3%	-0.157	-0.037	
Coronary revascularization	130	2.2%	576	2.6%	-0.397	-0.026	
Hospitalized heart failure	365	6.3%	1,391	6.4%	-0.079	-0.003	
Outpatient heart failure	404	7.0%	1,550	7.1%	-0.135	-0.005	
Other ischemic heart disease	785	13.5%	3,043	13.9%	-0.406	-0.012	
Hospitalized Thromboembolic Stroke (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN	
Hospitalized Thromboembolic Stroke (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN	
Transient ischemic attack	89	1.5%	430	2.0%	-0.435	-0.033	
syncope)	361	6.2%	1,600	7.3%	-1.104	-0.044	
Cardioversion	990	17.0%	3,471	15.9%	1.166	0.031	
Cardioablation	524	9.0%	1,260	5.8%	3.257	0.125	
Hospitalized for bleeding	0	0.0%	0	0.0%	NaN	NaN	
Medical Product Use							
Estrogen replacement	178	3.1%	727	3.3%	-0.261	-0.015	
H2-antagonist	46	0.8%	276	1.3%	-0.471	-0.047	
NSAIDs	691	11.9%	2,568	11.7%	0.149	0.005	

cder\_mpl2p\_wp047 Page 125 of 702



Table 1w. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	669	11.5%	2,898	13.3%	-1.739	-0.053
SSRI antidepressants	450	7.7%	1,865	8.5%	-0.784	-0.029
Insulin	83	1.4%	379	1.7%	-0.305	-0.024
Metformin (Biguanide)	303	5.2%	1,223	5.6%	-0.378	-0.017
Sulfonylureas	105	1.8%	272	1.2%	0.563	0.046
Other diabetes medications	117	2.0%	509	2.3%	-0.314	-0.022
ACEI/ARB	977	16.8%	2,927	13.4%	3.430	0.096
Antiarrhythmics	2,132	36.7%	6,189	28.3%	8.392	0.180
Anti-coagulant (injectable)	417	7.2%	2,302	10.5%	-3.351	-0.118
Anti-platelets	220	3.8%	1,376	6.3%	-2.507	-0.115
Beta-blockers	3,407	58.7%	13,214	60.4%	-1.792	-0.037
Calcium channel blockers	1,229	21.2%	4,698	21.5%	-0.333	-0.008
Digoxin	539	9.3%	921	4.2%	5.066	0.203
Diuretics (loop)	469	8.1%	1,768	8.1%	-0.013	-0.000
Diuretics (potassium sparing)	220	3.8%	733	3.4%	0.434	0.023
Diuretics (thiazide)	242	4.2%	671	3.1%	1.097	0.059
Nitrates	91	1.6%	353	1.6%	-0.048	-0.004
Statins	1,426	24.5%	5,210	23.8%	0.717	0.017
Fibrates	102	1.8%	282	1.3%	0.466	0.038
Amiodarone	400	6.9%	1,420	6.5%	0.391	0.016
Dronedarone	422	7.3%	595	2.7%	4.543	0.210
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	4,473	77.0%	14,941	68.3%	8.659	0.195
No ED encounters (past 31-183 days)	5,175	89.1%	18,879	86.4%	2.731	0.083
At least 1 ED encounter (past 0-30 days)	1,336	23.0%	6,921	31.7%	-8.659	-0.195

cder\_mpl2p\_wp047 Page 126 of 702



Table 1w. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

	Medical Product					te Balance
	Dabigatran Users A			an Users		
	Percent/Standard			Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	198	3.4%	1,156	5.3%	-1.879	-0.092
At least 1 ED encounter (past 31-183 days)	634	10.9%	2,983	13.6%	-2.731	-0.083
At least 2 ED encounters (past 31-183 days)	128	2.2%	736	3.4%	-1.163	-0.071

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 127 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1x. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

Patient Characteristics <sup>1</sup> Weighted patients	Dabigatra Number/Mean 5,408	n Users Percent/Standard Deviation <sup>2</sup>	·	an Users Percent/Standard		
	·	•		Percent/Standard		
	·	Deviation <sup>2</sup>			Absolute	Standardized
Weighted patients	5,408		Number/Mean	Deviation <sup>2</sup>	Difference	Difference
		N/A	21,541	N/A	N/A	N/A
Demographic Characteristics						
Age (years)	54.3	8.2	54.6	8.7	-0.269	-0.032
Age						
21-49 years	1,319	24.4%	5,249	24.4%	0.016	0.000
50-64 years	4,089	75.6%	16,292	75.6%	-0.016	-0.000
Sex						
Female	1,357	25.1%	5,859	27.2%	-2.097	-0.048
Male	4,051	74.9%	15,682	72.8%	2.097	0.048
Race <sup>3</sup>						
American Indian or Alaska Native	1	0.0%	9	0.0%	-0.032	-0.019
Asian	8	0.1%	47	0.2%	-0.071	-0.017
Black or African American	14	0.3%	119	0.6%	-0.302	-0.049
Native Hawaiian or Other Pacific Islander	2	0.0%	5	0.0%	0.014	0.008
Unknown	4,994	92.3%	19,104	88.7%	3.648	0.152
White	380	7.0%	2,175	10.1%	-3.068	-0.131
Hispanic origin						
Yes	8	0.1%	99	0.5%	-0.314	-0.058
No	134	2.5%	699	3.2%	-0.769	-0.061
Unknown	5,266	97.4%	20,743	96.3%	1.083	0.080
Year						
2010	114	2.1%	0	0.0%	NaN	NaN
2011	1,821	33.7%	0	0.0%	NaN	NaN
2012	1,286	23.8%	0	0.0%	NaN	NaN

cder\_mpl2p\_wp047 Page 128 of 702



Table 1x. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

			Covariate Balance			
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard			Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2013	729	13.5%	382	1.8%	11.710	0.453
2014	373	6.9%	1,002	4.7%	2.241	0.096
2015	265	4.9%	1,816	8.4%	-3.533	-0.142
2016	318	5.9%	2,200	10.2%	-4.336	-0.160
2017	212	3.9%	2,547	11.8%	-7.897	-0.296
2018	140	2.6%	3,003	13.9%	-11.348	-0.421
2019	87	1.6%	3,150	14.6%	-13.010	-0.491
2020	39	0.7%	3,317	15.4%	-14.677	-0.560
2021	18	0.3%	3,647	16.9%	-16.592	-0.619
2022	6	0.1%	476	2.2%	-2.110	-0.198
CHADVASC						
mean, std	0.5	0.7	0.5	0.7	-0.035	-0.049
0	3,345	61.9%	12,839	59.6%	2.251	0.046
1	1,627	30.1%	6,789	31.5%	-1.423	-0.031
2	354	6.5%	1,507	7.0%	-0.447	-0.018
3	69	1.3%	346	1.6%	-0.335	-0.028
4	11	0.2%	53	0.2%	-0.046	-0.010
>= 5	2	0.0%	7	0.0%	0.000	0.000
HASBLED						
mean, std	0.0	NaN	0.0	NaN	0.000	NaN
0	5,408	100.0%	21,541	100.0%	0.000	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
>= 3	0	0.0%	0	0.0%	NaN	NaN

cder\_mpl2p\_wp047 Page 129 of 702



Table 1x. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

	Medical Product					Covariate Balance	
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Health Characteristics							
Diabetes	415	7.7%	1,749	8.1%	-0.454	-0.017	
Hypercholesterolemia	728	13.5%	2,993	13.9%	-0.429	-0.012	
Hypertension	139	2.6%	618	2.9%	-0.305	-0.019	
Kidney failure (chronic)	1	0.0%	13	0.1%	-0.033	-0.016	
Kidney failure (acute)	77	1.4%	371	1.7%	-0.298	-0.024	
Obesity	849	15.7%	4,106	19.1%	-3.357	-0.089	
Peptic ulcer disease	0	0.0%	0	0.0%	NaN	NaN	
Nicotine dependency	822	15.2%	3,705	17.2%	-2.012	-0.055	
Hospitalized AMI (past 0-30 days)	36	0.7%	177	0.8%	-0.155	-0.018	
Hospitalized AMI (past 31-183 days)	8	0.1%	36	0.2%	-0.023	-0.006	
Coronary revascularization	131	2.4%	534	2.5%	-0.057	-0.004	
Hospitalized heart failure	338	6.2%	1,339	6.2%	0.033	0.001	
Outpatient heart failure	377	7.0%	1,491	6.9%	0.046	0.002	
Other ischemic heart disease	740	13.7%	2,946	13.7%	0.012	0.000	
Hospitalized Thromboembolic Stroke (past 0-30 days)	0	0.0%	0	0.0%	NaN	NaN	
Hospitalized Thromboembolic Stroke (past 31-183 days)	0	0.0%	0	0.0%	NaN	NaN	
Transient ischemic attack	95	1.8%	399	1.9%	-0.098	-0.007	
syncope)	363	6.7%	1,516	7.0%	-0.319	-0.013	
Cardioversion	894	16.5%	3,479	16.1%	0.387	0.010	
Cardioablation	367	6.8%	1,348	6.3%	0.528	0.021	
Hospitalized for bleeding	0	0.0%	0	0.0%	NaN	NaN	

cder\_mpl2p\_wp047 Page 130 of 702



Table 1x. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

		Covariate Balance				
	Dabigatra	ın Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Medical Product Use						
Estrogen replacement	169	3.1%	701	3.3%	-0.127	-0.007
H2-antagonist	52	1.0%	243	1.1%	-0.175	-0.017
NSAIDs	628	11.6%	2,514	11.7%	-0.056	-0.002
Proton pump inhibitors	680	12.6%	2,764	12.8%	-0.265	-0.008
SSRI antidepressants	419	7.7%	1,783	8.3%	-0.529	-0.019
Insulin	76	1.4%	344	1.6%	-0.198	-0.016
Metformin (Biguanide)	269	5.0%	1,160	5.4%	-0.402	-0.018
Sulfonylureas	73	1.4%	283	1.3%	0.041	0.004
Other diabetes medications	108	2.0%	472	2.2%	-0.191	-0.013
ACEI/ARB	795	14.7%	3,011	14.0%	0.717	0.020
Antiarrhythmics	1,705	31.5%	6,459	30.0%	1.536	0.033
Anti-coagulant (injectable)	470	8.7%	2,119	9.8%	-1.142	-0.040
Anti-platelets	252	4.7%	1,210	5.6%	-0.954	-0.043
Beta-blockers	3,207	59.3%	12,927	60.0%	-0.707	-0.014
Calcium channel blockers	1,121	20.7%	4,600	21.4%	-0.635	-0.016
Digoxin	325	6.0%	1,117	5.2%	0.830	0.036
Diuretics (loop)	420	7.8%	1,712	7.9%	-0.191	-0.007
Diuretics (potassium sparing)	183	3.4%	727	3.4%	0.008	0.000
Diuretics (thiazide)	178	3.3%	698	3.2%	0.045	0.003
Nitrates	84	1.6%	333	1.5%	0.014	0.001
Statins	1,254	23.2%	5,119	23.8%	-0.583	-0.014
Fibrates	77	1.4%	300	1.4%	0.024	0.002
Amiodarone	352	6.5%	1,402	6.5%	0.002	0.000

cder\_mpl2p\_wp047 Page 131 of 702



Table 1x. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0

	Medical Product					te Balance
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	234	4.3%	761	3.5%	0.789	0.041
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	3,896	72.0%	15,194	70.5%	1.509	0.034
No ED encounters (past 31-183 days)	4,749	87.8%	18,782	87.2%	0.610	0.018
At least 1 ED encounter (past 0-30 days)	1,512	28.0%	6,347	29.5%	-1.509	-0.034
At least 2 ED encounters (past 0-30 days)	245	4.5%	1,015	4.7%	-0.176	-0.009
At least 1 ED encounter (past 31-183 days)	660	12.2%	2,759	12.8%	-0.610	-0.018
At least 2 ED encounters (past 31-183 days)	148	2.7%	637	3.0%	-0.216	-0.013

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 132 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1y. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Unique patients	11,451	100.0%	51,557	100.0%	N/A	N/A	
<b>Demographic Characteristics</b>							
Age (years)	57.0	6.7	57.4	6.6	-0.343	-0.052	
Age							
21-49 years	1,622	14.2%	6,705	13.0%	1.160	0.034	
50-64 years	9,829	85.8%	44,852	87.0%	-1.160	-0.034	
Sex							
Female	2,694	23.5%	14,983	29.1%	-5.535	-0.126	
Male	8,757	76.5%	36,574	70.9%	5.535	0.126	
Race <sup>3</sup>							
American Indian or Alaska Native	3	0.0%	41	0.1%	-0.053	-0.023	
Asian	14	0.1%	106	0.2%	-0.083	-0.021	
Black or African American	134	1.2%	1,295	2.5%	-1.342	-0.100	
Native Hawaiian or Other Pacific Islander	8	0.1%	42	0.1%	-0.012	-0.004	
Unknown	10,198	89.1%	41,942	81.4%	7.707	0.218	
White	1,079	9.4%	7,905	15.3%	-5.910	-0.180	
Hispanic origin							
Yes	30	0.3%	258	0.5%	-0.238	-0.039	
No	713	6.2%	5,549	10.8%	-4.536	-0.163	
Unknown	10,708	93.5%	45,750	88.7%	4.775	0.168	
Year							
2010	287	2.5%	0	0.0%	NaN	NaN	
2011	3,871	33.8%	0	0.0%	NaN	NaN	
2012	2,594	22.7%	0	0.0%	NaN	NaN	
2013	1,307	11.4%	797	1.5%	9.868	0.409	

cder\_mpl2p\_wp047 Page 133 of 702



Table 1y. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Medical Product					
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	926	8.1%	2,134	4.1%	3.948	0.165	
2015	607	5.3%	3,799	7.4%	-2.068	-0.085	
2016	756	6.6%	5,240	10.2%	-3.561	-0.129	
2017	485	4.2%	6,286	12.2%	-7.957	-0.293	
2018	304	2.7%	7,050	13.7%	-11.019	-0.411	
2019	154	1.3%	7,921	15.4%	-14.019	-0.524	
2020	86	0.8%	7,945	15.4%	-14.659	-0.558	
2021	65	0.6%	9,203	17.9%	-17.283	-0.626	
2022	9	0.1%	1,182	2.3%	-2.214	-0.206	
CHADVASC							
mean, std	1.8	0.9	2.0	1.0	-0.209	-0.213	
0	305	2.7%	1,302	2.5%	0.138	0.009	
1	4,949	43.2%	18,957	36.8%	6.450	0.132	
2	4,118	36.0%	17,487	33.9%	2.044	0.043	
3	1,555	13.6%	9,148	17.7%	-4.164	-0.115	
4	420	3.7%	3,768	7.3%	-3.641	-0.160	
>= 5	104	0.9%	895	1.7%	-0.828	-0.073	
HASBLED							
mean, std	1.0	0.0	1.0	0.0	0.000	NaN	
0	0	0.0%	0	0.0%	NaN	NaN	
1	11,451	100.0%	51,557	100.0%	0.000	NaN	
2	0	0.0%	0	0.0%	NaN	NaN	
>= 3	0	0.0%	0	0.0%	NaN	NaN	
<b>Health Characteristics</b>							
Diabetes	3,374	29.5%	15,834	30.7%	-1.247	-0.027	

cder\_mpl2p\_wp047 Page 134 of 702



Table 1y. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	3,548	31.0%	15,717	30.5%	0.499	0.011
Hypertension	10,777	94.1%	48,188	93.5%	0.649	0.027
Kidney failure (chronic)	61	0.5%	442	0.9%	-0.325	-0.039
Kidney failure (acute)	238	2.1%	2,866	5.6%	-3.480	-0.182
Obesity	2,914	25.4%	21,936	42.5%	-17.100	-0.367
Peptic ulcer disease	11	0.1%	43	0.1%	0.013	0.004
Nicotine dependency	1,838	16.1%	14,182	27.5%	-11.456	-0.280
Hospitalized AMI (past 0-30 days)	133	1.2%	1,306	2.5%	-1.372	-0.102
Hospitalized AMI (past 31-183 days)	47	0.4%	561	1.1%	-0.678	-0.079
Coronary revascularization	781	6.8%	4,866	9.4%	-2.618	-0.096
Hospitalized heart failure	1,211	10.6%	7,870	15.3%	-4.689	-0.140
Outpatient heart failure	1,364	11.9%	7,858	15.2%	-3.330	-0.097
Other ischemic heart disease	3,149	27.5%	15,116	29.3%	-1.819	-0.040
Hospitalized Thromboembolic Stroke (past 0-30 days)	40	0.3%	186	0.4%	-0.011	-0.002
Hospitalized Thromboembolic Stroke (past 31-183 days)	15	0.1%	84	0.2%	-0.032	-0.008
Transient ischemic attack	353	3.1%	1,441	2.8%	0.288	0.017
syncope)	724	6.3%	4,385	8.5%	-2.183	-0.083
Cardioversion	1,908	16.7%	8,141	15.8%	0.872	0.024
Cardioablation	609	5.3%	2,036	3.9%	1.369	0.065
Hospitalized for bleeding	13	0.1%	44	0.1%	0.028	0.009
Medical Product Use						
Estrogen replacement	265	2.3%	1,185	2.3%	0.016	0.001
H2-antagonist	214	1.9%	1,300	2.5%	-0.653	-0.045
NSAIDs	1,812	15.8%	9,128	17.7%	-1.881	-0.050

cder\_mpl2p\_wp047 Page 135 of 702



Table 1y. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	1,968	17.2%	10,364	20.1%	-2.916	-0.075
SSRI antidepressants	1,212	10.6%	6,378	12.4%	-1.787	-0.056
Insulin	740	6.5%	3,692	7.2%	-0.699	-0.028
Metformin (Biguanide)	2,019	17.6%	10,375	20.1%	-2.492	-0.064
Sulfonylureas	851	7.4%	2,947	5.7%	1.716	0.069
Other diabetes medications	927	8.1%	4,892	9.5%	-1.393	-0.049
ACEI/ARB	6,748	58.9%	31,211	60.5%	-1.608	-0.033
Antiarrhythmics	4,052	35.4%	14,084	27.3%	8.068	0.175
Anti-coagulant (injectable)	778	6.8%	6,139	11.9%	-5.113	-0.176
Anti-platelets	951	8.3%	6,752	13.1%	-4.791	-0.155
Beta-blockers	8,111	70.8%	38,354	74.4%	-3.559	-0.080
Calcium channel blockers	4,454	38.9%	19,828	38.5%	0.438	0.009
Digoxin	1,250	10.9%	2,649	5.1%	5.778	0.214
Diuretics (loop)	1,722	15.0%	9,411	18.3%	-3.216	-0.086
Diuretics (potassium sparing)	767	6.7%	4,442	8.6%	-1.918	-0.072
Diuretics (thiazide)	2,899	25.3%	13,088	25.4%	-0.069	-0.002
Nitrates	543	4.7%	3,027	5.9%	-1.129	-0.050
Statins	5,338	46.6%	25,336	49.1%	-2.526	-0.051
Fibrates	671	5.9%	2,152	4.2%	1.686	0.077
Amiodarone	992	8.7%	5,103	9.9%	-1.235	-0.043
Dronedarone	860	7.5%	1,179	2.3%	5.223	0.244
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	8,449	73.8%	34,386	66.7%	7.089	0.156
No ED encounters (past 31-183 days)	9,718	84.9%	41,525	80.5%	4.324	0.115
At least 1 ED encounter (past 0-30 days)	3,002	26.2%	17,171	33.3%	-7.089	-0.156

cder\_mpl2p\_wp047 Page 136 of 702



Table 1y. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

	Medical Product					te Balance
	Dabigatran Users Apix			an Users		
	Percent/Standard			Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	515	4.5%	3,937	7.6%	-3.139	-0.132
At least 1 ED encounter (past 31-183 days)	1,733	15.1%	10,032	19.5%	-4.324	-0.115
At least 2 ED encounters (past 31-183 days)	428	3.7%	3,091	6.0%	-2.258	-0.105

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 137 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1z. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Covariate Balance				
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Weighted patients	10,380	N/A	51,099	N/A	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	57.2	6.6	57.3	6.6	-0.171	-0.026
Age						
21-49 years	1,436	13.8%	6,714	13.1%	0.700	0.021
50-64 years	8,943	86.2%	44,385	86.9%	-0.700	-0.021
Sex						
Female	2,747	26.5%	14,334	28.1%	-1.582	-0.036
Male	7,632	73.5%	36,765	71.9%	1.582	0.036
Race <sup>3</sup>						
American Indian or Alaska Native	3	0.0%	38	0.1%	-0.049	-0.022
Asian	10	0.1%	111	0.2%	-0.122	-0.031
Black or African American	135	1.3%	1,215	2.4%	-1.077	-0.084
Native Hawaiian or Other Pacific Islander	9	0.1%	40	0.1%	0.012	0.004
Unknown	9,218	88.8%	41,855	81.9%	6.895	0.276
White	994	9.6%	7,617	14.9%	-5.333	-0.210
Hispanic origin						
Yes	27	0.3%	248	0.5%	-0.222	-0.037
No	685	6.6%	5,259	10.3%	-3.694	-0.235
Unknown	9,667	93.1%	45,592	89.2%	3.916	0.238
Year						
2010	225	2.2%	0	0.0%	NaN	NaN
2011	3,223	31.1%	0	0.0%	NaN	NaN
2012	2,254	21.7%	0	0.0%	NaN	NaN

cder\_mpl2p\_wp047 Page 138 of 702



Table 1z. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Medical Product					
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	1,153	11.1%	878	1.7%	9.394	0.391	
2014	863	8.3%	2,301	4.5%	3.812	0.156	
2015	598	5.8%	4,001	7.8%	-2.070	-0.082	
2016	805	7.8%	5,299	10.4%	-2.613	-0.091	
2017	523	5.0%	6,278	12.3%	-7.244	-0.260	
2018	355	3.4%	6,939	13.6%	-10.159	-0.371	
2019	182	1.8%	7,718	15.1%	-13.352	-0.495	
2020	103	1.0%	7,704	15.1%	-14.086	-0.537	
2021	83	0.8%	8,853	17.3%	-16.522	-0.602	
2022	12	0.1%	1,129	2.2%	-2.094	-0.197	
CHADVASC							
mean, std	1.8	1.0	1.9	1.0	-0.095	-0.095	
0	276	2.7%	1,297	2.5%	0.119	0.007	
1	4,240	40.9%	19,417	38.0%	2.853	0.059	
2	3,649	35.2%	17,564	34.4%	0.778	0.016	
3	1,582	15.2%	8,664	17.0%	-1.713	-0.047	
4	513	4.9%	3,368	6.6%	-1.650	-0.071	
>= 5	120	1.2%	790	1.5%	-0.387	-0.034	
HASBLED							
mean, std	1.0	0.0	1.0	0.0	0.000	NaN	
0	0	0.0%	0	0.0%	NaN	NaN	
1	10,380	100.0%	51,099	100.0%	0.000	NaN	
2	0	0.0%	0	0.0%	NaN	NaN	
>= 3	0	0.0%	0	0.0%	NaN	NaN	

cder\_mpl2p\_wp047 Page 139 of 702



Table 1z. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

			Covariate Balance			
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	2,980	28.7%	15,534	30.4%	-1.694	-0.037
Hypercholesterolemia	3,098	29.8%	15,576	30.5%	-0.635	-0.014
Hypertension	9,729	93.7%	47,827	93.6%	0.135	0.006
Kidney failure (chronic)	74	0.7%	405	0.8%	-0.081	-0.009
Kidney failure (acute)	327	3.2%	2,473	4.8%	-1.686	-0.086
Obesity	3,625	34.9%	20,135	39.4%	-4.482	-0.093
Peptic ulcer disease	9	0.1%	36	0.1%	0.016	0.006
Nicotine dependency	2,181	21.0%	12,900	25.2%	-4.229	-0.101
Hospitalized AMI (past 0-30 days)	164	1.6%	1,145	2.2%	-0.663	-0.048
Hospitalized AMI (past 31-183 days)	63	0.6%	467	0.9%	-0.306	-0.035
Coronary revascularization	787	7.6%	4,529	8.9%	-1.276	-0.047
Hospitalized heart failure	1,277	12.3%	7,322	14.3%	-2.021	-0.060
Outpatient heart failure	1,335	12.9%	7,452	14.6%	-1.721	-0.051
Other ischemic heart disease	2,879	27.7%	14,768	28.9%	-1.160	-0.026
Hospitalized Thromboembolic Stroke (past 0-30 days)	35	0.3%	183	0.4%	-0.017	-0.003
Hospitalized Thromboembolic Stroke (past 31-183 days)	18	0.2%	84	0.2%	0.007	0.002
Transient ischemic attack	304	2.9%	1,459	2.9%	0.076	0.005
syncope)	770	7.4%	4,136	8.1%	-0.670	-0.025
Cardioversion	1,664	16.0%	8,146	15.9%	0.092	0.003
Cardioablation	452	4.4%	2,136	4.2%	0.174	0.009
Hospitalized for bleeding	10	0.1%	43	0.1%	0.008	0.003

cder\_mpl2p\_wp047 Page 140 of 702



Table 1z. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Medical	Product		Covaria	te Balance
	Dabigatra	ın Users	Apixab	an Users		
Patient Characteristics <sup>1</sup>	Niverban/84aan	Percent/Standard Deviation <sup>2</sup>	Nivershau /NAaau	Percent/Standard  Deviation <sup>2</sup>	Absolute	Standardized Difference
	Number/Mean	Deviation	Number/Mean	Deviation	Difference	Dillerence
Medical Product Use	244	2.3%	1 174	2.3%	0.048	0.003
Estrogen replacement			1,174			
H2-antagonist	205	2.0%	1,238	2.4%	-0.452	-0.031
NSAIDs	1,730	16.7%	8,875	17.4%	-0.704	-0.019
Proton pump inhibitors	1,911	18.4%	10,011	19.6%	-1.179	-0.030
SSRI antidepressants	1,205	11.6%	6,185	12.1%	-0.495	-0.015
Insulin	654	6.3%	3,574	7.0%	-0.690	-0.028
Metformin (Biguanide)	1,871	18.0%	10,013	19.6%	-1.570	-0.040
Sulfonylureas	640	6.2%	3,075	6.0%	0.149	0.006
Other diabetes medications	862	8.3%	4,685	9.2%	-0.862	-0.031
ACEI/ARB	6,191	59.6%	30,782	60.2%	-0.597	-0.012
Antiarrhythmics	3,169	30.5%	14,656	28.7%	1.850	0.041
Anti-coagulant (injectable)	873	8.4%	5,626	11.0%	-2.602	-0.090
Anti-platelets	1,067	10.3%	6,209	12.2%	-1.867	-0.059
Beta-blockers	7,515	72.4%	37,683	73.7%	-1.348	-0.030
Calcium channel blockers	4,011	38.6%	19,702	38.6%	0.091	0.002
Digoxin	743	7.2%	3,130	6.1%	1.033	0.042
Diuretics (loop)	1,675	16.1%	9,028	17.7%	-1.530	-0.041
Diuretics (potassium sparing)	745	7.2%	4,220	8.3%	-1.081	-0.041
Diuretics (thiazide)	2,622	25.3%	12,982	25.4%	-0.142	-0.003
Nitrates	522	5.0%	2,886	5.6%	-0.619	-0.028
Statins	4,858	46.8%	24,857	48.6%	-1.838	-0.037
Fibrates	490	4.7%	2,278	4.5%	0.267	0.013
Amiodarone	966	9.3%	4,940	9.7%	-0.364	-0.012

cder\_mpl2p\_wp047 Page 141 of 702



Table 1z. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

		Covariate Balance				
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	437	4.2%	1,578	3.1%	1.125	0.060
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	7,247	69.8%	35,004	68.5%	1.321	0.030
No ED encounters (past 31-183 days)	8,605	82.9%	41,639	81.5%	1.415	0.037
At least 1 ED encounter (past 0-30 days)	3,132	30.2%	16,096	31.5%	-1.321	-0.030
At least 2 ED encounters (past 0-30 days)	613	5.9%	3,474	6.8%	-0.891	-0.037
At least 1 ED encounter (past 31-183 days)	1,775	17.1%	9,460	18.5%	-1.415	-0.037
At least 2 ED encounters (past 31-183 days)	482	4.6%	2,772	5.4%	-0.782	-0.036

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 142 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1aa. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

		Covariate Balance				
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Unique patients	2,424	100.0%	17,216	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	57.3	6.5	57.7	6.3	-0.401	-0.063
Age						
21-49 years	322	13.3%	2,021	11.7%	1.545	0.047
50-64 years	2,102	86.7%	15,195	88.3%	-1.545	-0.047
Sex						
Female	670	27.6%	5,250	30.5%	-2.855	-0.063
Male	1,754	72.4%	11,966	69.5%	2.855	0.063
Race <sup>3</sup>						
American Indian or Alaska Native	0	0.0%	20	0.1%	NaN	NaN
Asian	4	0.2%	36	0.2%	-0.044	-0.010
Black or African American	63	2.6%	870	5.1%	-2.454	-0.128
Native Hawaiian or Other Pacific Islander	4	0.2%	27	0.2%	0.008	0.002
Unknown	2,046	84.4%	12,704	73.8%	10.614	0.263
White	300	12.4%	3,498	20.3%	-7.942	-0.216
Hispanic origin						
Yes	12	0.5%	122	0.7%	-0.214	-0.028
No	280	11.6%	3,169	18.4%	-6.856	-0.193
Unknown	2,132	88.0%	13,925	80.9%	7.070	0.196
Year						
2010	48	2.0%	0	0.0%	NaN	NaN
2011	698	28.8%	0	0.0%	NaN	NaN
2012	541	22.3%	0	0.0%	NaN	NaN
2013	277	11.4%	177	1.0%	10.399	0.441

cder\_mpl2p\_wp047 Page 143 of 702



Table 1aa. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

		Medical Product				te Balance
	Dabigatra	ın Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	186	7.7%	544	3.2%	4.513	0.200
2015	147	6.1%	1,025	6.0%	0.111	0.005
2016	188	7.8%	1,626	9.4%	-1.689	-0.060
2017	145	6.0%	2,051	11.9%	-5.931	-0.209
2018	90	3.7%	2,305	13.4%	-9.676	-0.351
2019	55	2.3%	2,883	16.7%	-14.477	-0.509
2020	29	1.2%	2,931	17.0%	-15.828	-0.572
2021	16	0.7%	3,266	19.0%	-18.311	-0.647
2022	4	0.2%	408	2.4%	-2.205	-0.198
CHADVASC						
mean, std	2.3	1.1	2.6	1.2	-0.275	-0.232
0	22	0.9%	119	0.7%	0.216	0.024
1	653	26.9%	3,538	20.6%	6.388	0.151
2	830	34.2%	5,283	30.7%	3.554	0.076
3	539	22.2%	4,354	25.3%	-3.054	-0.072
4	283	11.7%	2,807	16.3%	-4.630	-0.134
>= 5	97	4.0%	1,115	6.5%	-2.475	-0.111
HASBLED						
mean, std	2.0	0.0	2.0	0.0	0.000	NaN
0	0	0.0%	0	0.0%	NaN	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	2,424	100.0%	17,216	100.0%	0.000	NaN
>= 3	0	0.0%	0	0.0%	NaN	NaN
Health Characteristics						
Diabetes	985	40.6%	7,508	43.6%	-2.975	-0.060

cder\_mpl2p\_wp047 Page 144 of 702



Table 1aa. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

	Medical Product					Covariate Balance	
	Dabigatra	an Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
Hypercholesterolemia	842	34.7%	5,935	34.5%	0.262	0.006	
Hypertension	2,364	97.5%	16,800	97.6%	-0.059	-0.004	
Kidney failure (chronic)	461	19.0%	4,238	24.6%	-5.598	-0.136	
Kidney failure (acute)	241	9.9%	3,278	19.0%	-9.098	-0.261	
Obesity	841	34.7%	8,630	50.1%	-15.433	-0.316	
Peptic ulcer disease	27	1.1%	194	1.1%	-0.013	-0.001	
Nicotine dependency	584	24.1%	6,428	37.3%	-13.245	-0.290	
Hospitalized AMI (past 0-30 days)	49	2.0%	740	4.3%	-2.277	-0.130	
Hospitalized AMI (past 31-183 days)	32	1.3%	419	2.4%	-1.114	-0.082	
Coronary revascularization	289	11.9%	2,740	15.9%	-3.993	-0.116	
Hospitalized heart failure	501	20.7%	5,108	29.7%	-9.002	-0.209	
Outpatient heart failure	470	19.4%	4,260	24.7%	-5.355	-0.129	
Other ischemic heart disease	911	37.6%	6,834	39.7%	-2.113	-0.043	
Hospitalized Thromboembolic Stroke (past 0-30 days)	139	5.7%	843	4.9%	0.838	0.037	
Hospitalized Thromboembolic Stroke (past 31-183 days)	64	2.6%	468	2.7%	-0.078	-0.005	
Transient ischemic attack	173	7.1%	932	5.4%	1.723	0.071	
syncope)	250	10.3%	2,280	13.2%	-2.930	-0.091	
Cardioversion	435	17.9%	2,752	16.0%	1.960	0.052	
Cardioablation	138	5.7%	692	4.0%	1.674	0.078	
Hospitalized for bleeding	41	1.7%	238	1.4%	0.309	0.025	
Medical Product Use							
Estrogen replacement	42	1.7%	370	2.1%	-0.416	-0.030	
H2-antagonist	79	3.3%	785	4.6%	-1.301	-0.067	
NSAIDs	432	17.8%	3,189	18.5%	-0.702	-0.018	

cder\_mpl2p\_wp047 Page 145 of 702



Table 1aa. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

	Medical Product				Covariate Balance	
	Dabigatra	ın Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	688	28.4%	5,298	30.8%	-2.391	-0.052
SSRI antidepressants	346	14.3%	2,875	16.7%	-2.426	-0.067
Insulin	276	11.4%	2,362	13.7%	-2.334	-0.070
Metformin (Biguanide)	463	19.1%	4,184	24.3%	-5.202	-0.126
Sulfonylureas	224	9.2%	1,389	8.1%	1.173	0.042
Other diabetes medications	243	10.0%	2,253	13.1%	-3.062	-0.096
ACEI/ARB	1,571	64.8%	11,250	65.3%	-0.536	-0.011
Antiarrhythmics	865	35.7%	5,074	29.5%	6.212	0.133
Anti-coagulant (injectable)	229	9.4%	2,391	13.9%	-4.441	-0.139
Anti-platelets	349	14.4%	3,325	19.3%	-4.916	-0.132
Beta-blockers	1,764	72.8%	13,449	78.1%	-5.347	-0.124
Calcium channel blockers	1,049	43.3%	7,314	42.5%	0.792	0.016
Digoxin	319	13.2%	1,143	6.6%	6.521	0.220
Diuretics (loop)	608	25.1%	5,404	31.4%	-6.307	-0.140
Diuretics (potassium sparing)	270	11.1%	2,236	13.0%	-1.849	-0.057
Diuretics (thiazide)	692	28.5%	4,558	26.5%	2.072	0.046
Nitrates	201	8.3%	1,620	9.4%	-1.118	-0.039
Statins	1,194	49.3%	9,886	57.4%	-8.166	-0.164
Fibrates	186	7.7%	974	5.7%	2.016	0.081
Amiodarone	319	13.2%	2,764	16.1%	-2.895	-0.082
Dronedarone	169	7.0%	304	1.8%	5.206	0.257
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	1,597	65.9%	10,321	60.0%	5.933	0.123
No ED encounters (past 31-183 days)	1,825	75.3%	12,053	70.0%	5.278	0.119
At least 1 ED encounter (past 0-30 days)	827	34.1%	6,895	40.0%	-5.933	-0.123

cder\_mpl2p\_wp047 Page 146 of 702



Table 1aa. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

	Medical Product					te Balance
	Dabigatr	an Users	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	<b>Deviation</b> <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	207	8.5%	1,970	11.4%	-2.903	-0.097
At least 1 ED encounter (past 31-183 days)	599	24.7%	5,163	30.0%	-5.278	-0.119
At least 2 ED encounters (past 31-183 days)	221	9.1%	2,070	12.0%	-2.907	-0.095

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 147 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1ab. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

Tobbigat=n Users         Apixab users           Patient Characteristics¹         Number/Mean         Deviation²         Number/Mean         Deviation²           Weighted patients         2,100         N/A         16,963         N/A           Demographic Characteristics         STA         6.4         57.7         6.3           Age         57.4         6.4         57.7         6.3           Age         21-49 years         274         13.0%         2,001         11.8%           50-64 years         1,826         87.0%         14,961         88.2%           Sex         Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race³         American Indian or Alaska Native         0         0.0%         20         0.1%           Asian         3         0.1%         36         0.2%           Black or African American         57         2.7%         834         4.9%           Native Hawaiian or Other Pacific Islander         3         0.1%         27         0.2%           Unknown         1,772         84.4%         12,604         74.3%	Covari	Covariate Balance	
Patient Characteristics¹         Number/Mean         Deviation²         Number/Mean         Deviation²           Weighted patients         2,100         N/A         16,963         N/A           Demographic Characteristics           Age         57.4         6.4         57.7         6.3           Age         21-49 years         274         13.0%         2,001         11.8%           50-64 years         1,826         87.0%         14,961         88.2%           Sex         Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race³         4         3         0.1%         36         0.2%           Male and Indian or Alaska Native         0         0.0%         20         0.1%           Asian         3         0.1%         36         0.2%           Black or African American         57         2.7%         834         4.9%           Native Hawaiian or Other Pacific Islander         3         0.1%         27         0.2%           Unknown         1,772         84.4%         12,604         74.3%           White         258         12.3%			
Weighted patients         2,100         N/A         16,963         N/A           Demographic Characteristics           Age (years)         57.4         6.4         57.7         6.3           Age         21-49 years         274         13.0%         2,001         11.8%           50-64 years         1,826         87.0%         14,961         88.2%           Sex         Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race³         American Indian or Alaska Native         0         0.0%         20         0.1%           Asian         3         0.1%         36         0.2%           Black or African American         57         2.7%         834         4.9%           Native Hawaiian or Other Pacific Islander         3         0.1%         27         0.2%           Unknown         1,772         84.4%         12,604         74.3%           White         258         12.3%         3,379         19.9%           Hispanic origin         Yes         11         0.5%         121         0.7%           No         237         11.3%<	rd Absolute	Standardized	
Demographic Characteristics           Age (years)         57.4         6.4         57.7         6.3           Age         21-49 years         274         13.0%         2,001         11.8%           50-64 years         1,826         87.0%         14,961         88.2%           Sex         Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race <sup>3</sup> ***********************************	Difference	Difference	
Age (years)       57.4       6.4       57.7       6.3         Age       21-49 years       274       13.0%       2,001       11.8%         50-64 years       1,826       87.0%       14,961       88.2%         Sex       Female       610       29.0%       5,104       30.1%         Male       1,490       71.0%       11,858       69.9%         Race³       ***********************************	N/A	N/A	
Age 21-49 years 274 13.0% 2,001 11.8% 50-64 years 1,826 87.0% 14,961 88.2%  Sex  Female 610 29.0% 5,104 30.1% Male 1,490 71.0% 11,858 69.9%  Race³  American Indian or Alaska Native 0 0.0% 20 0.1% Asian 3 0.1% 36 0.2% Black or African American 57 2.7% 834 4.9% Native Hawaiian or Other Pacific Islander 3 0.1% 27 0.2% Unknown 1,772 84.4% 12,604 74.3% White 258 12.3% 3,379 19.9%  Hispanic origin  Yes 11 0.5% 121 0.7% No 237 11.3% 3,048 18.0% Unknown 1,852 88.2% 13,793 81.3%  Year  2010 35 1.7% 0 0 0.0% 2011 541 25.8% 0 0 0.0%			
21-49 years       274       13.0%       2,001       11.8%         50-64 years       1,826       87.0%       14,961       88.2%         Sex       Female       610       29.0%       5,104       30.1%         Male       1,490       71.0%       11,858       69.9%         Race³       Temper and the proper and the property of the propert	-0.303	-0.047	
50-64 years         1,826         87.0%         14,961         88.2%           Sex         Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race <sup>3</sup> 8         4.0%         11,858         69.9%           American Indian or Alaska Native         0         0.0%         20         0.1%           Asian         3         0.1%         36         0.2%           Black or African American         57         2.7%         834         4.9%           Native Hawaiian or Other Pacific Islander         3         0.1%         27         0.2%           Unknown         1,772         84.4%         12,604         74.3%           White         258         12.3%         3,379         19.9%           Hispanic origin         Yes         11         0.5%         121         0.7%           No         237         11.3%         3,048         18.0%           Unknown         1,852         88.2%         13,793         81.3%           Year         2010         35         1.7%         0         0.0%           2010         35			
Sex         Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race³         American Indian or Alaska Native         0         0.0%         20         0.1%           Asian         3         0.1%         36         0.2%           Black or African American         57         2.7%         834         4.9%           Native Hawaiian or Other Pacific Islander         3         0.1%         27         0.2%           Unknown         1,772         84.4%         12,604         74.3%           White         258         12.3%         3,379         19.9%           Hispanic origin         Yes         11         0.5%         121         0.7%           No         237         11.3%         3,048         18.0%           Unknown         1,852         88.2%         13,793         81.3%           Year         2010         35         1.7%         0         0.0%           2011         541         25.8%         0         0.0%	1.236	0.038	
Female         610         29.0%         5,104         30.1%           Male         1,490         71.0%         11,858         69.9%           Race³         ***********************************	-1.236	-0.038	
Male       1,490       71.0%       11,858       69.9%         Race³       American Indian or Alaska Native       0       0.0%       20       0.1%         Asian       3       0.1%       36       0.2%         Black or African American       57       2.7%       834       4.9%         Native Hawaiian or Other Pacific Islander       3       0.1%       27       0.2%         Unknown       1,772       84.4%       12,604       74.3%         White       258       12.3%       3,379       19.9%         Hispanic origin       Yes       11       0.5%       121       0.7%         No       237       11.3%       3,048       18.0%         Unknown       1,852       88.2%       13,793       81.3%         Year       2010       35       1.7%       0       0.0%         2011       541       25.8%       0       0.0%			
Race³       American Indian or Alaska Native       0       0.0%       20       0.1%         Asian       3       0.1%       36       0.2%         Black or African American       57       2.7%       834       4.9%         Native Hawaiian or Other Pacific Islander       3       0.1%       27       0.2%         Unknown       1,772       84.4%       12,604       74.3%         White       258       12.3%       3,379       19.9%         Hispanic origin       Yes       11       0.5%       121       0.7%         No       237       11.3%       3,048       18.0%         Unknown       1,852       88.2%       13,793       81.3%         Year         2010       35       1.7%       0       0.0%         2011       541       25.8%       0       0.0%	-1.046	-0.023	
American Indian or Alaska Native       0       0.0%       20       0.1%         Asian       3       0.1%       36       0.2%         Black or African American       57       2.7%       834       4.9%         Native Hawaiian or Other Pacific Islander       3       0.1%       27       0.2%         Unknown       1,772       84.4%       12,604       74.3%         White       258       12.3%       3,379       19.9%         Hispanic origin       Yes       11       0.5%       121       0.7%         No       237       11.3%       3,048       18.0%         Unknown       1,852       88.2%       13,793       81.3%         Year         2010       35       1.7%       0       0.0%         2011       541       25.8%       0       0.0%	1.046	0.023	
Asian       3       0.1%       36       0.2%         Black or African American       57       2.7%       834       4.9%         Native Hawaiian or Other Pacific Islander       3       0.1%       27       0.2%         Unknown       1,772       84.4%       12,604       74.3%         White       258       12.3%       3,379       19.9%         Hispanic origin       Yes       11       0.5%       121       0.7%         No       237       11.3%       3,048       18.0%         Unknown       1,852       88.2%       13,793       81.3%         Year       2010       35       1.7%       0       0.0%         2011       541       25.8%       0       0.0%			
Black or African American         57         2.7%         834         4.9%           Native Hawaiian or Other Pacific Islander         3         0.1%         27         0.2%           Unknown         1,772         84.4%         12,604         74.3%           White         258         12.3%         3,379         19.9%           Hispanic origin         Yes         11         0.5%         121         0.7%           No         237         11.3%         3,048         18.0%           Unknown         1,852         88.2%         13,793         81.3%           Year         2010         35         1.7%         0         0.0%           2011         541         25.8%         0         0.0%	NaN	NaN	
Native Hawaiian or Other Pacific Islander       3       0.1%       27       0.2%         Unknown       1,772       84.4%       12,604       74.3%         White       258       12.3%       3,379       19.9%         Hispanic origin       Yes       11       0.5%       121       0.7%         No       237       11.3%       3,048       18.0%         Unknown       1,852       88.2%       13,793       81.3%         Year       2010       35       1.7%       0       0.0%         2011       541       25.8%       0       0.0%	-0.088	-0.022	
Unknown     1,772     84.4%     12,604     74.3%       White     258     12.3%     3,379     19.9%       Hispanic origin       Yes     11     0.5%     121     0.7%       No     237     11.3%     3,048     18.0%       Unknown     1,852     88.2%     13,793     81.3%       Year       2010     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%	-2.198	-0.122	
White       258       12.3%       3,379       19.9%         Hispanic origin       Yes       11       0.5%       121       0.7%         No       237       11.3%       3,048       18.0%         Unknown       1,852       88.2%       13,793       81.3%         Year       2010       35       1.7%       0       0.0%         2011       541       25.8%       0       0.0%	-0.033	-0.009	
Hispanic origin       Yes     11     0.5%     121     0.7%       No     237     11.3%     3,048     18.0%       Unknown     1,852     88.2%     13,793     81.3%       Year     2010     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%	10.075	0.399	
Yes     11     0.5%     121     0.7%       No     237     11.3%     3,048     18.0%       Unknown     1,852     88.2%     13,793     81.3%       Year     2010     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%	-7.619	-0.279	
No     237     11.3%     3,048     18.0%       Unknown     1,852     88.2%     13,793     81.3%       Year       2010     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%			
Unknown     1,852     88.2%     13,793     81.3%       Year       2010     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%	-0.212	-0.027	
Year     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%	-6.693	-0.405	
2010     35     1.7%     0     0.0%       2011     541     25.8%     0     0.0%	6.905	0.399	
2011 541 25.8% 0 0.0%			
	NaN	NaN	
2012	NaN	NaN	
2012 439 20.9% 0 0.0%	NaN	NaN	

cder\_mpl2p\_wp047 Page 148 of 702



Table 1ab. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

	Medical Product					Covariate Balance	
	Dabigatra	n Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2013	230	10.9%	191	1.1%	9.820	0.421	
2014	162	7.7%	581	3.4%	4.305	0.189	
2015	133	6.3%	1,055	6.2%	0.126	0.005	
2016	198	9.4%	1,627	9.6%	-0.179	-0.006	
2017	148	7.1%	2,031	12.0%	-4.912	-0.168	
2018	98	4.7%	2,272	13.4%	-8.723	-0.308	
2019	59	2.8%	2,804	16.5%	-13.737	-0.478	
2020	35	1.7%	2,830	16.7%	-14.997	-0.538	
2021	20	0.9%	3,175	18.7%	-17.787	-0.627	
2022	2	0.1%	397	2.3%	-2.235	-0.204	
CHADVASC							
mean, std	2.4	1.2	2.5	1.2	-0.150	-0.126	
0	17	0.8%	121	0.7%	0.075	0.009	
1	522	24.8%	3,619	21.3%	3.507	0.084	
2	696	33.1%	5,270	31.1%	2.073	0.044	
3	486	23.2%	4,247	25.0%	-1.868	-0.044	
4	276	13.1%	2,677	15.8%	-2.635	-0.075	
>= 5	103	4.9%	1,029	6.1%	-1.153	-0.051	
HASBLED							
mean, std	2.0	0.0	2.0	0.0	0.000	NaN	
0	0	0.0%	0	0.0%	NaN	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	2,100	100.0%	16,963	100.0%	0.000	NaN	
>= 3	0	0.0%	0	0.0%	NaN	NaN	

cder\_mpl2p\_wp047 Page 149 of 702



Table 1ab. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

		Medical	Product		Covariate Balance	
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Characteristics						
Diabetes	820	39.1%	7,342	43.3%	-4.221	-0.087
Hypercholesterolemia	694	33.0%	5,858	34.5%	-1.486	-0.031
Hypertension	2,046	97.5%	16,559	97.6%	-0.149	-0.010
Kidney failure (chronic)	452	21.5%	4,065	24.0%	-2.424	-0.058
Kidney failure (acute)	282	13.4%	3,013	17.8%	-4.350	-0.121
Obesity	916	43.6%	8,193	48.3%	-4.662	-0.094
Peptic ulcer disease	22	1.0%	190	1.1%	-0.084	-0.008
Nicotine dependency	646	30.8%	6,033	35.6%	-4.801	-0.103
Hospitalized AMI (past 0-30 days)	61	2.9%	674	4.0%	-1.058	-0.058
Hospitalized AMI (past 31-183 days)	33	1.6%	386	2.3%	-0.682	-0.050
Coronary revascularization	270	12.8%	2,612	15.4%	-2.551	-0.074
Hospitalized heart failure	496	23.6%	4,815	28.4%	-4.768	-0.109
Outpatient heart failure	439	20.9%	4,098	24.2%	-3.240	-0.079
Other ischemic heart disease	769	36.6%	6,695	39.5%	-2.828	-0.059
Hospitalized Thromboembolic Stroke (past 0-30 days)	118	5.6%	849	5.0%	0.634	0.028
Hospitalized Thromboembolic Stroke (past 31-183 days)	62	3.0%	461	2.7%	0.246	0.015
Transient ischemic attack	132	6.3%	956	5.6%	0.655	0.028
syncope)	238	11.3%	2,189	12.9%	-1.591	-0.049
Cardioversion	363	17.3%	2,758	16.3%	1.021	0.027
Cardioablation	93	4.4%	717	4.2%	0.200	0.010
Hospitalized for bleeding	30	1.4%	237	1.4%	0.050	0.004

cder\_mpl2p\_wp047 Page 150 of 702



Table 1ab. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

	Medical Product				Covariate Balance	
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Medical Product Use						
Estrogen replacement	39	1.8%	356	2.1%	-0.256	-0.018
H2-antagonist	74	3.5%	749	4.4%	-0.898	-0.047
NSAIDs	376	17.9%	3,132	18.5%	-0.536	-0.014
Proton pump inhibitors	605	28.8%	5,177	30.5%	-1.702	-0.037
SSRI antidepressants	317	15.1%	2,783	16.4%	-1.323	-0.037
Insulin	238	11.4%	2,273	13.4%	-2.046	-0.063
Metformin (Biguanide)	425	20.2%	4,015	23.7%	-3.437	-0.083
Sulfonylureas	164	7.8%	1,396	8.2%	-0.429	-0.016
Other diabetes medications	225	10.7%	2,146	12.7%	-1.920	-0.060
ACEI/ARB	1,360	64.8%	11,079	65.3%	-0.535	-0.011
Antiarrhythmics	664	31.6%	5,123	30.2%	1.441	0.031
Anti-coagulant (injectable)	233	11.1%	2,278	13.4%	-2.309	-0.072
Anti-platelets	345	16.4%	3,174	18.7%	-2.273	-0.060
Beta-blockers	1,595	76.0%	13,164	77.6%	-1.623	-0.038
Calcium channel blockers	892	42.5%	7,224	42.6%	-0.108	-0.002
Digoxin	185	8.8%	1,251	7.4%	1.432	0.053
Diuretics (loop)	562	26.8%	5,185	30.6%	-3.784	-0.085
Diuretics (potassium sparing)	240	11.4%	2,162	12.7%	-1.310	-0.040
Diuretics (thiazide)	573	27.3%	4,519	26.6%	0.634	0.014
Nitrates	171	8.2%	1,566	9.2%	-1.074	-0.038
Statins	1,088	51.8%	9,574	56.4%	-4.622	-0.093
Fibrates	125	6.0%	998	5.9%	0.086	0.004
Amiodarone	306	14.6%	2,663	15.7%	-1.136	-0.032

cder\_mpl2p\_wp047 Page 151 of 702



Table 1ab. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

		Medical Product				
	Dabigatra	ın Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Dronedarone	74	3.5%	382	2.2%	1.296	0.077
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	1,329	63.3%	10,358	61.1%	2.257	0.051
No ED encounters (past 31-183 days)	1,536	73.2%	12,015	70.8%	2.328	0.053
At least 1 ED encounter (past 0-30 days)	770	36.7%	6,605	38.9%	-2.257	-0.051
At least 2 ED encounters (past 0-30 days)	205	9.8%	1,866	11.0%	-1.248	-0.042
At least 1 ED encounter (past 31-183 days)	564	26.8%	4,947	29.2%	-2.328	-0.053
At least 2 ED encounters (past 31-183 days)	203	9.7%	1,968	11.6%	-1.945	-0.064

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 152 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1ac. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medical	Product		Covaria	te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Unique patients	475	100.0%	5,565	100.0%	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	58.0	5.7	58.3	6.0	-0.311	-0.053
Age						
21-49 years	48	10.1%	532	9.6%	0.546	0.018
50-64 years	427	89.9%	5,033	90.4%	-0.546	-0.018
Sex						
Female	135	28.4%	1,603	28.8%	-0.384	-0.008
Male	340	71.6%	3,962	71.2%	0.384	0.008
Race <sup>3</sup>						
American Indian or Alaska Native	0	0.0%	7	0.1%	NaN	NaN
Asian	0	0.0%	12	0.2%	NaN	NaN
Black or African American	19	4.0%	464	8.3%	-4.338	-0.181
Native Hawaiian or Other Pacific Islander	0	0.0%	11	0.2%	NaN	NaN
Unknown	364	76.6%	3,616	65.0%	11.654	0.258
White	92	19.4%	1,437	25.8%	-6.454	-0.155
Hispanic origin						
Yes	2	0.4%	44	0.8%	-0.370	-0.048
No	92	19.4%	1,496	26.9%	-7.514	-0.179
Unknown	381	80.2%	4,025	72.3%	7.883	0.186
Year						
2010	9	1.9%	0	0.0%	NaN	NaN
2011	122	25.7%	0	0.0%	NaN	NaN
2012	73	15.4%	0	0.0%	NaN	NaN
2013	46	9.7%	37	0.7%	9.019	0.416

cder\_mpl2p\_wp047 Page 153 of 702



Table 1ac. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medical Product				Covariate Balance	
	Dabigatra	ın Users	Apixab	an Users			
		Percent/Standard		Percent/Standard	Absolute	Standardized	
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference	
2014	22	4.6%	112	2.0%	2.619	0.147	
2015	29	6.1%	278	5.0%	1.110	0.048	
2016	48	10.1%	448	8.1%	2.055	0.072	
2017	48	10.1%	574	10.3%	-0.209	-0.007	
2018	37	7.8%	734	13.2%	-5.400	-0.177	
2019	16	3.4%	977	17.6%	-14.188	-0.477	
2020	16	3.4%	1,078	19.4%	-16.003	-0.521	
2021	6	1.3%	1,165	20.9%	-19.671	-0.659	
2022	3	0.6%	162	2.9%	-2.279	-0.173	
CHADVASC							
mean, std	2.8	1.3	3.0	1.3	-0.283	-0.216	
0	0	0.0%	13	0.2%	NaN	NaN	
1	87	18.3%	704	12.7%	5.665	0.157	
2	135	28.4%	1,350	24.3%	4.162	0.095	
3	114	24.0%	1,473	26.5%	-2.469	-0.057	
4	91	19.2%	1,304	23.4%	-4.274	-0.105	
>= 5	48	10.1%	721	13.0%	-2.851	-0.089	
HASBLED							
mean, std	3.1	0.3	3.1	0.3	-0.043	-0.141	
0	0	0.0%	0	0.0%	NaN	NaN	
1	0	0.0%	0	0.0%	NaN	NaN	
2	0	0.0%	0	0.0%	NaN	NaN	
>= 3	475	100.0%	5,565	100.0%	0.000	NaN	
Health Characteristics							
Diabetes	232	48.8%	2,981	53.6%	-4.725	-0.095	

cder\_mpl2p\_wp047 Page 154 of 702



Table 1ac. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medical	Product		Covaria	te Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Hypercholesterolemia	166	34.9%	2,069	37.2%	-2.231	-0.046
Hypertension	472	99.4%	5,525	99.3%	0.087	0.011
Kidney failure (chronic)	225	47.4%	2,978	53.5%	-6.145	-0.123
Kidney failure (acute)	128	26.9%	2,248	40.4%	-13.448	-0.287
Obesity	192	40.4%	2,941	52.8%	-12.427	-0.251
Peptic ulcer disease	12	2.5%	157	2.8%	-0.295	-0.018
Nicotine dependency	162	34.1%	2,496	44.9%	-10.746	-0.221
Hospitalized AMI (past 0-30 days)	10	2.1%	301	5.4%	-3.304	-0.174
Hospitalized AMI (past 31-183 days)	12	2.5%	249	4.5%	-1.948	-0.106
Coronary revascularization	76	16.0%	1,081	19.4%	-3.425	-0.090
Hospitalized heart failure	152	32.0%	2,401	43.1%	-11.145	-0.232
Outpatient heart failure	149	31.4%	2,013	36.2%	-4.804	-0.102
Other ischemic heart disease	224	47.2%	2,670	48.0%	-0.821	-0.016
Hospitalized Thromboembolic Stroke (past 0-30 days)	52	10.9%	414	7.4%	3.508	0.122
Hospitalized Thromboembolic Stroke (past 31-183 days)	29	6.1%	310	5.6%	0.535	0.023
Transient ischemic attack	42	8.8%	418	7.5%	1.331	0.049
syncope)	102	21.5%	1,144	20.6%	0.917	0.022
Cardioversion	67	14.1%	834	15.0%	-0.881	-0.025
Cardioablation	29	6.1%	229	4.1%	1.990	0.090
Hospitalized for bleeding	21	4.4%	215	3.9%	0.558	0.028
Medical Product Use						
Estrogen replacement	7	1.5%	78	1.4%	0.072	0.006
H2-antagonist	28	5.9%	384	6.9%	-1.006	-0.041
NSAIDs	75	15.8%	913	16.4%	-0.617	-0.017

cder\_mpl2p\_wp047 Page 155 of 702



Table 1ac. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	l Product		Covaria	te Balance
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Proton pump inhibitors	191	40.2%	2,248	40.4%	-0.185	-0.004
SSRI antidepressants	86	18.1%	1,093	19.6%	-1.535	-0.039
Insulin	72	15.2%	1,193	21.4%	-6.280	-0.163
Metformin (Biguanide)	95	20.0%	1,280	23.0%	-3.001	-0.073
Sulfonylureas	47	9.9%	566	10.2%	-0.276	-0.009
Other diabetes medications	52	10.9%	843	15.1%	-4.201	-0.125
ACEI/ARB	308	64.8%	3,653	65.6%	-0.800	-0.017
Antiarrhythmics	152	32.0%	1,626	29.2%	2.782	0.060
Anti-coagulant (injectable)	51	10.7%	761	13.7%	-2.938	-0.090
Anti-platelets	83	17.5%	1,207	21.7%	-4.215	-0.106
Beta-blockers	368	77.5%	4,521	81.2%	-3.766	-0.093
Calcium channel blockers	231	48.6%	2,593	46.6%	2.037	0.041
Digoxin	67	14.1%	456	8.2%	5.911	0.189
Diuretics (loop)	186	39.2%	2,504	45.0%	-5.838	-0.118
Diuretics (potassium sparing)	89	18.7%	995	17.9%	0.857	0.022
Diuretics (thiazide)	136	28.6%	1,443	25.9%	2.702	0.061
Nitrates	46	9.7%	732	13.2%	-3.469	-0.109
Statins	254	53.5%	3,422	61.5%	-8.018	-0.163
Fibrates	48	10.1%	369	6.6%	3.475	0.126
Amiodarone	77	16.2%	1,059	19.0%	-2.819	-0.074
Dronedarone	17	3.6%	65	1.2%	2.411	0.159
<b>Health Service Utilization Intensity Metrics</b>						
No ED encounters (past 0-30 days)	279	58.7%	3,072	55.2%	3.535	0.071
No ED encounters (past 31-183 days)	284	59.8%	3,204	57.6%	2.215	0.045
At least 1 ED encounter (past 0-30 days)	196	41.3%	2,493	44.8%	-3.535	-0.071

cder\_mpl2p\_wp047 Page 156 of 702



Table 1ac. Aggregated Unadjusted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	l Product		Covaria	te Balance
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
At least 2 ED encounters (past 0-30 days)	52	10.9%	850	15.3%	-4.327	-0.128
At least 1 ED encounter (past 31-183 days)	191	40.2%	2,361	42.4%	-2.215	-0.045
At least 2 ED encounters (past 31-183 days)	94	19.8%	1,170	21.0%	-1.235	-0.031

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 157 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 1ad. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	al Product		Covaria	ate Balance
	Dabigatra	ın Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Weighted patients	365	N/A	5,026	N/A	N/A	N/A
<b>Demographic Characteristics</b>						
Age (years)	58.0	5.7	58.2	5.9	-0.285	-0.049
Age						
21-49 years	36	9.8%	480	9.5%	0.299	0.010
50-64 years	329	90.2%	4,546	90.5%	-0.299	-0.010
Sex						
Female	100	27.3%	1,400	27.9%	-0.607	-0.014
Male	266	72.7%	3,626	72.1%	0.607	0.014
Race <sup>3</sup>						
American Indian or Alaska Native	0	0.0%	5	0.1%	NaN	NaN
Asian	0	0.0%	12	0.2%	NaN	NaN
Black or African American	15	4.0%	386	7.7%	-3.666	-0.166
Native Hawaiian or Other Pacific Islander	0	0.0%	10	0.2%	NaN	NaN
Unknown	284	77.7%	3,371	67.1%	10.613	0.407
White	67	18.3%	1,225	24.4%	-6.088	-0.204
Hispanic origin						
Yes	3	0.8%	41	0.8%	-0.054	-0.006
No	65	17.7%	1,261	25.1%	-7.411	-0.417
Unknown	298	81.6%	3,724	74.1%	7.465	0.434
Year						
2010	7	1.8%	0	0.0%	NaN	NaN
2011	79	21.7%	0	0.0%	NaN	NaN
2012	50	13.8%	0	0.0%	NaN	NaN
2013	35	9.6%	39	0.8%	8.866	0.408

Page 158 of 702



Table 1ad. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	l Product		Covaria	ate Balance
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
2014	19	5.2%	102	2.0%	3.142	0.169
2015	22	6.0%	264	5.2%	0.762	0.033
2016	39	10.8%	410	8.2%	2.595	0.089
2017	39	10.7%	535	10.6%	0.049	0.002
2018	35	9.6%	653	13.0%	-3.371	-0.106
2019	16	4.5%	868	17.3%	-12.764	-0.418
2020	14	3.8%	953	19.0%	-15.160	-0.492
2021	6	1.7%	1,055	21.0%	-19.278	-0.638
2022	3	0.8%	148	2.9%	-2.119	-0.156
CHADVASC						
mean, std	2.8	1.2	3.0	1.3	-0.203	-0.159
0	0	0.0%	0	0.0%	NaN	NaN
1	62	16.9%	690	13.7%	3.202	0.089
2	108	29.6%	1,306	26.0%	3.665	0.082
3	92	25.2%	1,336	26.6%	-1.359	-0.031
4	72	19.6%	1,158	23.0%	-3.446	-0.085
>= 5	32	8.6%	537	10.7%	-2.063	-0.070
HASBLED						
mean, std	3.1	0.3	3.1	0.3	-0.054	-0.181
0	0	0.0%	0	0.0%	NaN	NaN
1	0	0.0%	0	0.0%	NaN	NaN
2	0	0.0%	0	0.0%	NaN	NaN
>= 3	365	100.0%	5,026	100.0%	0.000	NaN
Health Characteristics						



Table 1ad. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	l Product		Covaria	ite Balance
	Dabigatra	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Diabetes	177	48.6%	2,606	51.8%	-3.284	-0.066
Hypercholesterolemia	127	34.7%	1,850	36.8%	-2.148	-0.045
Hypertension	364	99.6%	5,014	99.8%	-0.137	-0.025
Kidney failure (chronic)	184	50.4%	2,645	52.6%	-2.263	-0.046
Kidney failure (acute)	114	31.1%	1,917	38.1%	-7.000	-0.147
Obesity	172	47.2%	2,578	51.3%	-4.101	-0.082
Peptic ulcer disease	7	2.0%	133	2.7%	-0.688	-0.046
Nicotine dependency	136	37.3%	2,147	42.7%	-5.430	-0.112
Hospitalized AMI (past 0-30 days)	10	2.8%	206	4.1%	-1.266	-0.069
Hospitalized AMI (past 31-183 days)	9	2.5%	204	4.1%	-1.564	-0.088
Coronary revascularization	58	15.8%	938	18.7%	-2.829	-0.075
Hospitalized heart failure	121	33.3%	2,035	40.5%	-7.227	-0.151
Outpatient heart failure	119	32.5%	1,764	35.1%	-2.643	-0.057
Other ischemic heart disease	167	45.9%	2,367	47.1%	-1.236	-0.025
Hospitalized Thromboembolic Stroke (past 0-30 days)	33	9.2%	398	7.9%	1.242	0.044
Hospitalized Thromboembolic Stroke (past 31-183 days)	18	4.9%	272	5.4%	-0.512	-0.023
Transient ischemic attack	28	7.7%	354	7.0%	0.648	0.025
Other medical conditions (falls, fractures,						
syncope)	78	21.2%	1,033	20.6%	0.685	0.017
Cardioversion	50	13.7%	751	15.0%	-1.300	-0.037
Cardioablation	17	4.7%	226	4.5%	0.223	0.011
Hospitalized for bleeding	11	3.0%	195	3.9%	-0.851	-0.047
Medical Product Use						

cder\_mpl2p\_wp047



Table 1ad. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	l Product		Covaria	ate Balance
	Dabigatra	n Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Estrogen replacement	4	1.2%	55	1.1%	0.099	0.009
H2-antagonist	23	6.2%	318	6.3%	-0.151	-0.006
NSAIDs	59	16.2%	814	16.2%	0.059	0.002
Proton pump inhibitors	149	40.8%	2,022	40.2%	0.598	0.012
SSRI antidepressants	62	17.0%	947	18.8%	-1.803	-0.047
Insulin	59	16.1%	1,007	20.0%	-3.974	-0.104
Metformin (Biguanide)	70	19.2%	1,130	22.5%	-3.307	-0.081
Sulfonylureas	32	8.7%	478	9.5%	-0.860	-0.030
Other diabetes medications	47	12.8%	716	14.2%	-1.430	-0.042
ACEI/ARB	236	64.6%	3,305	65.8%	-1.145	-0.024
Antiarrhythmics	111	30.5%	1,459	29.0%	1.435	0.031
Anti-coagulant (injectable)	45	12.3%	656	13.0%	-0.720	-0.022
Anti-platelets	71	19.4%	1,044	20.8%	-1.335	-0.033
Beta-blockers	283	77.4%	4,059	80.8%	-3.319	-0.081
Calcium channel blockers	167	45.8%	2,326	46.3%	-0.461	-0.009
Digoxin	40	10.9%	451	9.0%	1.927	0.064
Diuretics (loop)	141	38.6%	2,185	43.5%	-4.896	-0.100
Diuretics (potassium sparing)	61	16.8%	903	18.0%	-1.186	-0.031
Diuretics (thiazide)	100	27.5%	1,346	26.8%	0.724	0.016
Nitrates	36	9.8%	599	11.9%	-2.139	-0.069
Statins	204	55.9%	3,014	60.0%	-4.073	-0.083
Fibrates	28	7.7%	362	7.2%	0.553	0.021
Amiodarone	61	16.7%	919	18.3%	-1.633	-0.043
Dronedarone	7	2.0%	69	1.4%	0.669	0.052

cder\_mpl2p\_wp047 Page 161 of 702



Table 1ad. Aggregated Weighted Characteristics of Dabigatran and Apixaban Users, Truncation Weight = 2.5%, ATES Weights (Inverse Probability of Treatment Weighted, Trimmed, Weight: Average Treatment Effect, Stabilized (ATES), Truncation: 2.5%) in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

		Medica	l Product		Covaria	ate Balance
	Dabigatr	an Users	Apixab	an Users		
		Percent/Standard		Percent/Standard	Absolute	Standardized
Patient Characteristics <sup>1</sup>	Number/Mean	Deviation <sup>2</sup>	Number/Mean	Deviation <sup>2</sup>	Difference	Difference
Health Service Utilization Intensity Metrics						
No ED encounters (past 0-30 days)	215	59.0%	2,865	57.0%	1.942	0.045
No ED encounters (past 31-183 days)	219	59.9%	2,963	58.9%	0.943	0.020
At least 1 ED encounter (past 0-30 days)	150	41.0%	2,161	43.0%	-1.942	-0.045
At least 2 ED encounters (past 0-30 days)	46	12.5%	700	13.9%	-1.451	-0.044
At least 1 ED encounter (past 31-183 days)	146	40.1%	2,063	41.1%	-0.943	-0.020
At least 2 ED encounters (past 31-183 days)	70	19.1%	997	19.8%	-0.740	-0.019

<sup>&</sup>lt;sup>1</sup>Weighted patient characteristics tables facilitate the assessment of covariate balance after inverse probability weighting and should not be interpreted as a description of the unweighted population. Treated patients are weighted by the proportion of treated patients in the trimmed population divided by the inverse of their propensity score (PS). Reference patients are weighted by 1 minus the proportion of treated patients in the trimmed population divided by 1 minus their PS.

cder\_mpl2p\_wp047 Page 162 of 702

<sup>&</sup>lt;sup>2</sup>Value represents standard deviation where no % follows the value.

<sup>&</sup>lt;sup>3</sup>Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

<sup>\*</sup>Data represented by NaN (Not a Number) is due to their inability to be calculated. This table may not use all data representations.

<sup>\*\*</sup>AMI - Acute myocardial infarction; NSAIDs - non-steroidal anti-inflammtory drugs; ACEI - angiotensin converting enzyme inhibitor; ARB - angiotensin receptor blocker; ED - emergency department; SSRI - selective serotonin reuptake inhibitor



Table 2a. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type

			Average Person	Average Person	Number	Incidence	Risk per 1,000	Incidence Rate Difference per	Hazard Ratio (95%	
	Number of	Person Years	Days	Years	of	Rate per 1,000	New	1,000	Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Person Years	Users	Person Years	Interval)	Value
Site-Adjusted Analysis,	Unweighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	1.97	1.32 (0.89,	0.165
Apixaban Users	96,668	32,203.97	121.68	0.33	132	4.10	1.37	1.97	1.94)	0.103
Inverse Probability of T	reatment Weighted	Analysis; Unwei	ghted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	2.02	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	130	4.05	1.35	2.02	N/A	IN/A
Inverse Probability of To	reatment Weighted	Analysis <sup>1</sup> ; Weigl	ht = ATES, Trimmed	d <sup>2</sup>						
Dabigatran Users	18,882	5,071.94	98.11	0.27	38	7.52	2.02	3.65	1.74 (1.13,	NI/A
Apixaban Users	96,132	31,999.87	121.58	0.33	124	3.86	1.29	3.05	2.68)	N/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 163 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 2b. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Thromboembolic Stroke,	Truncation Weigh	ht = 1, ATES Weig	hts							
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	1.97	1.32 (0.89,	0.165
Apixaban Users	96,668	32,203.97	121.68	0.33	132	4.10	1.37	1.57	1.94)	0.103
Inverse Probability of Trea	ntment Weighted	Analysis; Unweigh	ited, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	2.02	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	130	4.05	1.35	2.02	N/A	N/A
Inverse Probability of Trea	ntment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>	2						
Dabigatran Users	18,882	5,071.94	98.11	0.27	38	7.52	2.02	3.65	1.74 (1.13,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	124	3.86	1.29	3.03	2.68)	IN/A
Thromboembolic Stroke,	Truncation Weigh	ht = 1, ATES Weig	hts, Age Group: 21	-49 years						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	3,484	668.62	70.10	0.19	4	5.98	1.15	2.72	1.75 (0.56,	0.339
Apixaban Users	14,485	3,674.75	92.66	0.25	12	3.27	0.83	2.72	5.48)	0.555
Inverse Probability of Trea	ntment Weighted	Analysis; Unweigh	ited, Trimmed							
Dabigatran Users	3,454	663.72	70.19	0.19	4	6.03	1.16	2.96	N/A	N/A
Apixaban Users	14,105	3,583.54	92.80	0.25	11	3.07	0.78	2.50	N/A	N/A
Inverse Probability of Trea	ntment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>	2						
Dabigatran Users	3,285	647.43	71.99	0.20	5	7.55	1.49	4.53	2.51 (0.64,	N/A
Apixaban Users	14,098	3,571.57	92.53	0.25	11	3.02	0.77	4.55	9.91)	IN/A
Thromboembolic Stroke,	Truncation Weigh	ht = 1, ATES Weig	hts, Age Group: 50	-64 years						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	16,675	4,602.49	100.81	0.28	28	6.08	1.68	1.93	1.29 (0.85,	0.234
Apixaban Users	81,715	28,407.01	126.97	0.35	118	4.15	1.44	1.55	1.95)	0.254

cder\_mpl2p\_wp047 Page 164 of 702



Table 2b. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tre	eatment Weighted	Analysis; Unweigh	nted, Trimmed							
Dabigatran Users	16,674	4,602.32	100.82	0.28	28	6.08	1.68	1.93	N/A	N/A
Apixaban Users	81,643	28,388.32	127.00	0.35	118	4.16	1.45	1.93	IN/A	IN/A
Inverse Probability of Tre	eatment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>	?						
Dabigatran Users	15,562	4,396.32	103.19	0.28	33	7.50	2.12	3.52	1.66 (1.05,	N/A
Apixaban Users	81,592	28,344.92	126.89	0.35	113	3.98	1.38	3.32	2.62)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 165 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 2c. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Thromboembolic Stroke, T	runcation Weigh	nt = 1, ATES Weigh	nts							
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	1.97	1.32 (0.89,	0.165
Apixaban Users	96,668	32,203.97	121.68	0.33	132	4.10	1.37	1.57	1.94)	0.103
Inverse Probability of Treat	ment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	2.02	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	130	4.05	1.35	2.02	N/A	N/A
Inverse Probability of Treat	ment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	38	7.52	2.02	3.65	1.74 (1.13,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	124	3.86	1.29	3.03	2.68)	IN/A
Thromboembolic Stroke, T	runcation Weigh	nt = 1, ATES Weigh	nts, Sex: Female							
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	4,706	1,318.26	102.32	0.28	11	8.34	2.34	4.40	1.90 (0.97,	0.062
Apixaban Users	28,211	10,128.41	131.13	0.36	40	3.95	1.42	4.40	3.71)	0.002
Inverse Probability of Treat	ment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	4,701	1,317.93	102.40	0.28	11	8.35	2.34	4.38	N/A	N/A
Apixaban Users	27,987	10,073.77	131.47	0.36	40	3.97	1.43	4.30	N/A	IV/A
Inverse Probability of Treat	ment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	4,394	1,261.57	104.87	0.29	12	9.22	2.65	5.25	2.13 (1.00,	N/A
Apixaban Users	27,965	10,091.59	131.81	0.36	40	3.97	1.43	3.23	4.55)	IN/A
Thromboembolic Stroke, T	runcation Weigh	nt = 1, ATES Weigh	nts, Sex: Male							
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	15,453	3,952.85	93.43	0.26	21	5.31	1.36	1.21	1.15 (0.72,	0.555
Apixaban Users	67,989	21,953.35	117.94	0.32	90	4.10	1.32	1.21	1.86)	0.555

cder\_mpl2p\_wp047



Table 2c. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Person Years	Number of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tred	atment Weighted A	Analysis; Unweight	ted, Trimmed							
Dabigatran Users	15,444	3,951.52	93.45	0.26	21	5.31	1.36	1.20	N/A	N/A
Apixaban Users	67,640	21,873.93	118.12	0.32	90	4.11	1.33	1.20	N/A	IN/A
Inverse Probability of Tred	atment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed	2						
Dabigatran Users	14,465	3,772.56	95.26	0.26	25	6.76	1.76	2.92	1.56 (0.92,	N/A
Apixaban Users	67,595	21,812.71	117.86	0.32	84	3.84	1.24	2.92	2.65)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 167 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 2d. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Thromboembolic Stroke, T	runcation Weigh	t = 1, ATES Weigh	ts							
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	1.97	1.32 (0.89,	0.165
Apixaban Users	96,668	32,203.97	121.68	0.33	132	4.10	1.37	1.37	1.94)	0.105
Inverse Probability of Treat	ment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	2.02	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	130	4.05	1.35	2.02	N/A	NA
Inverse Probability of Treat	ment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	38	7.52	2.02	3.65	1.74 (1.13,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	124	3.86	1.29	3.03	2.68)	IV/A
Thromboembolic Stroke, T	runcation Weigh	t = 2.5, ATES Wei	ghts, CHADVASC: 0							
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	4,125	888.16	78.64	0.22	4	4.50	0.97	2.83	2.78 (0.78,	0.114
Apixaban Users	14,037	3,592.64	93.48	0.26	6	1.67	0.43	2.03	9.89)	0.114
Inverse Probability of Treat	ment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	4,087	879.45	78.60	0.22	4	4.55	0.98	2.85	N/A	N/A
Apixaban Users	13,766	3,528.55	93.62	0.26	6	1.70	0.44	2.03	, , .	14,71
Inverse Probability of Treat	ment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	3,881	823.66	77.51	0.21	4	5.30	1.12	3.60	3.23 (0.84,	N/A
Apixaban Users	13,719	3,518.08	93.66	0.26	6	1.69	0.43	3.00	12.46)	NA
Thromboembolic Stroke, T	runcation Weigh	t = 2.5, ATES Wei	ghts, CHADVASC: 1							
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	7,293	1,849.50	92.63	0.25	6	3.24	0.82	1.23	1.38 (0.55,	0.494
Apixaban Users	30,310	9,944.66	119.84	0.33	20	2.01	0.66	1.25	3.45)	0.454

cder\_mpl2p\_wp047 Page 168 of 702



Table 2d. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tred	ntment Weighted A	Analysis; Unweight	ted, Trimmed							
Dabigatran Users	7,275	1,846.11	92.69	0.25	6	3.25	0.82	1.23	N/A	N/A
Apixaban Users	30,065	9,895.34	120.22	0.33	20	2.02	0.67	1.23	IN/A	N/A
Inverse Probability of Tred	ntment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	6,746	1,733.14	93.84	0.26	5	2.73	0.70	0.76	1.20 (0.47,	N/A
Apixaban Users	30,000	9,864.18	120.09	0.33	19	1.96	0.65	0.70	3.07)	IN/A
Thromboembolic Stroke,	<b>Truncation Weigh</b>	nt = 2.5, ATES Weig	ghts, CHADVASC: 2							
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	5,417	1,552.77	104.70	0.29	5	3.22	0.92	-0.12	0.82 (0.32,	0.674
Apixaban Users	25,743	9,587.10	136.02	0.37	32	3.34	1.24	-0.12	2.11)	0.074
Inverse Probability of Tred	ntment Weighted A	Analysis; Unweight	ted, Trimmed							
Dabigatran Users	5,405	1,549.87	104.73	0.29	5	3.23	0.93	-0.02	N/A	N/A
Apixaban Users	25,596	9,548.66	136.26	0.37	31	3.25	1.21	-0.02	N/A	N/A
Inverse Probability of Tred	ntment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	4,886	1,406.11	105.11	0.29	5	3.62	1.04	0.45	0.96 (0.36,	N/A
Apixaban Users	25,510	9,519.60	136.30	0.37	30	3.17	1.18	0.43	2.54)	N/A
Thromboembolic Stroke,	Truncation Weigh	nt = 2.5, ATES Weig	ghts, CHADVASC: 3							
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	2,270	666.19	107.19	0.29	6	9.01	2.64	3.93	1.56 (0.65,	0.322
Apixaban Users	15,433	5,512.90	130.47	0.36	28	5.08	1.81	5.55	3.79)	0.322
Inverse Probability of Tred	ntment Weighted A	Analysis; Unweight	ted, Trimmed							
Dabigatran Users	2,246	660.55	107.42	0.29	6	9.08	2.67	4.13	N/A	N/A
Apixaban Users	15,182	5,447.03	131.05	0.36	27	4.96	1.78	7.13	IV/A	14/7

cder\_mpl2p\_wp047 Page 169 of 702



Table 2d. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tred	atment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	1,913	568.87	108.62	0.30	6	10.31	3.07	5.58	1.91 (0.72,	N/A
Apixaban Users	15,147	5,455.73	131.56	0.36	26	4.74	1.71	5.56	5.04)	N/A
Thromboembolic Stroke,	Truncation Weigh	nt = 2.5, ATES Wei	ghts, CHADVASC: 4							
Site-Adjusted Analysis, Un	nweighted									
Dabigatran Users	802	228.57	104.10	0.28	6	26.25	7.48	18.20	3.02 (1.21,	0.018
Apixaban Users	7,939	2,609.57	120.06	0.33	21	8.05	2.65	18.20	7.55)	0.018
Inverse Probability of Tred	atment Weighted A	Analysis; Unweight	ted, Trimmed							
Dabigatran Users	779	221.74	103.97	0.28	5	22.55	6.42	12.70	N1 / A	N1 / A
Apixaban Users	7,137	2,372.41	121.41	0.33	21	8.85	2.94	13.70	N/A	N/A
Inverse Probability of Tred	atment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	661	195.54	108.00	0.30	5	24.38	7.21	15 10	2.56 (0.86,	N1 / A
Apixaban Users	7,121	2,380.20	122.08	0.33	22	9.18	3.07	15.19	7.56)	N/A
Thromboembolic Stroke,	Truncation Weigh	nt = 2.5, ATES Wei	ghts, CHADVASC: 5	+						
Site-Adjusted Analysis, Un	nweighted									
Dabigatran Users	252	85.92	124.53	0.34	5	58.19	19.84	20.65	2.20 (0.83,	0.113
Apixaban Users	2,738	834.89	111.38	0.30	23	27.55	8.40	30.65	5.80)	0.113
Inverse Probability of Tred	atment Weighted A	Analysis; Unweight	ted, Trimmed							
Dabigatran Users	224	75.24	122.69	0.34	4	53.16	17.86	24.76	N1 / A	N1 / A
Apixaban Users	1,894	605.05	116.68	0.32	19	31.40	10.03	21.76	N/A	N/A
Inverse Probability of Tred	atment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	179	62.44	127.28	0.35	4	59.24	20.64	27.00	1.91 (0.53,	N1 / A
Apixaban Users	1,892	609.88	117.75	0.32	19	31.35	10.11	27.89	6.91)	N/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 170 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 2e. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Thromboembolic Stroke, T	runcation Weig	ht = 1, ATES Weig	ghts							
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	1.97	1.32 (0.89,	0.165
Apixaban Users	96,668	32,203.97	121.68	0.33	132	4.10	1.37	1.57	1.94)	0.103
Inverse Probability of Treat	ment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	2.02	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	130	4.05	1.35	2.02	14//1	14//
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weigh	nt = ATES, Trimmed	2						
Dabigatran Users	18,882	5,071.94	98.11	0.27	38	7.52	2.02	3.65	1.74 (1.13,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	124	3.86	1.29	3.03	2.68)	14/7
Thromboembolic Stroke, T	runcation Weig	ht = 2.5, ATES We	eights, HASBLED: 0							
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	5,809	1,349.29	84.84	0.23	5	3.71	0.86	1.81	1.86 (0.65,	0.247
Apixaban Users	21,862	6,325.65	105.68	0.29	12	1.90	0.55	1.01	5.30)	0.247
Inverse Probability of Treat	ment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	5,791	1,345.43	84.86	0.23	5	3.72	0.86	1.80	N/A	N/A
Apixaban Users	21,615	6,265.29	105.87	0.29	12	1.92	0.56	1.00	14//1	14//
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weigh	nt = ATES, Trimmed	2						
Dabigatran Users	5,408	1,263.65	85.34	0.23	5	3.72	0.87	1.82	1.90 (0.61,	N/A
Apixaban Users	21,541	6,218.74	105.45	0.29	12	1.90	0.55	1.02	5.86)	14/7
Thromboembolic Stroke, T	runcation Weig	ht = 2.5, ATES We	eights, HASBLED: 1							
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	11,451	3,152.68	100.56	0.28	18	5.71	1.57	2.78	1.72 (1.01,	0.047
Apixaban Users	51,557	18,442.73	130.66	0.36	54	2.93	1.05	2.70	2.95)	0.0 .7

cder\_mpl2p\_wp047 Page 171 of 702



Table 2e. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Treat	tment Weighted	Analysis; Unweig	hted, Trimmed							_
Dabigatran Users	11,435	3,149.56	100.60	0.28	18	5.72	1.57	2.78	N/A	N/A
Apixaban Users	51,235	18,381.35	131.04	0.36	54	2.94	1.05	2.76	N/A	IN/A
Inverse Probability of Treat	tment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	10,380	2,900.27	102.06	0.28	18	6.04	1.69	3.24	1.91 (1.09,	N/A
Apixaban Users	51,099	18,307.48	130.86	0.36	51	2.80	1.00	3.24	3.35)	IN/A
Thromboembolic Stroke, 1	Truncation Weig	ht = 2.5, ATES We	eights, HASBLED: 2							
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	2,424	647.66	97.59	0.27	5	7.72	2.06	-0.62	0.78 (0.31,	0.599
Apixaban Users	17,216	5,756.82	122.14	0.33	48	8.34	2.79	-0.02	1.97)	0.555
Inverse Probability of Treat	tment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	2,417	646.51	97.70	0.27	5	7.73	2.07	-0.48	N/A	N/A
Apixaban Users	17,003	5,722.03	122.92	0.34	47	8.21	2.76	-0.46	N/A	IN/A
Inverse Probability of Treat	tment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	2,100	580.23	100.94	0.28	7	12.42	3.43	4.25	1.30 (0.50,	N/A
Apixaban Users	16,963	5,716.61	123.09	0.34	47	8.16	2.75	4.25	3.38)	N/A
Thromboembolic Stroke, 1	Truncation Weig	ht = 2.5, ATES We	eights, HASBLED: 3	+						
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	475	121.49	93.42	0.26	4	32.92	8.42	22.65	2.85 (0.95,	0.063
Apixaban Users	5,565	1,556.56	102.16	0.28	16	10.28	2.88	22.03	8.57)	0.003
Inverse Probability of Treat	tment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	458	119.35	95.18	0.26	4	33.51	8.73	23.09	N/A	N/A
Apixaban Users	5,036	1,439.16	104.38	0.29	15	10.42	2.98	23.09	IN/A	IN/A

cder\_mpl2p\_wp047 Page 172 of 702



Table 2e. Effect Estimates for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Treat	tment Weighted .	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	365	96.74	96.76	0.26	3	26.90	7.13	16.13	2.18 (0.58,	N/A
Apixaban Users	5,026	1,440.13	104.66	0.29	16	10.77	3.09	10.13	8.13)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 173 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 3a. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type

	Number of	Person Years	Average Person  Days	Average Person Years	Number	Incidence Rate per 1,000	Risk per 1,000 New	Incidence Rate Difference per 1,000	Hazard Ratio (95% Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	of Events	Person Years	Users	Person Years	Interval)	Value
Site-Adjusted Analysis,	Unweighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	36	6.83	1.79	-0.10	0.98 (0.69,	0.914
Apixaban Users	96,668	32,203.97	121.68	0.33	223	6.92	2.31	-0.10	1.40)	0.514
Inverse Probability of Tr	reatment Weighted	d Analysis; Unwe	eighted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	36	6.83	1.79	0.13	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	215	6.70	2.23	0.13	IV/A	IN/A
Inverse Probability of Tr	reatment Weighted	d Analysis <sup>1</sup> ; Weig	ght = ATES, Trimme	ed <sup>2</sup>						
Dabigatran Users	18,882	5,071.94	98.11	0.27	39	7.78	2.09	1.34	1.22 (0.82,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	206	6.44	2.14	1.54	1.81)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 174 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 3b. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Major Extracranial Bleedin	ng, Truncation W	eight = 1, ATES W	eights/							
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	36	6.83	1.79	-0.10	0.98 (0.69,	0.914
Apixaban Users	96,668	32,203.97	121.68	0.33	223	6.92	2.31	0.10	1.40)	0.514
Inverse Probability of Treat	tment Weighted ,	Analysis; Unweigh	nted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	36	6.83	1.79	0.13	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	215	6.70	2.23	0.13	N/A	N/A
Inverse Probability of Treat	tment Weighted ,	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	18,882	5,071.94	98.11	0.27	39	7.78	2.09	1.34	1.22 (0.82,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	206	6.44	2.14	1.54	1.81)	IN/A
Major Extracranial Bleedin	ng, Truncation W	eight = 1, ATES W	eights, Age Group	: <b>21-49</b> yea	rs					
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	3,484	668.62	70.10	0.19	6	8.97	1.72	5.16	2.43 (0.92,	0.074
Apixaban Users	14,485	3,674.75	92.66	0.25	14	3.81	0.97	5.10	6.43)	0.074
Inverse Probability of Treat	tment Weighted ,	Analysis; Unweigh	nted, Trimmed							
Dabigatran Users	3,454	663.72	70.19	0.19	6	9.04	1.74	5.13	N/A	N/A
Apixaban Users	14,105	3,583.54	92.80	0.25	14	3.91	0.99	5.15	NA	14/75
Inverse Probability of Treat	tment Weighted ,	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	3,285	647.43	71.99	0.20	3	4.85	0.96	1.01	1.30 (0.47,	N/A
Apixaban Users	14,098	3,571.57	92.53	0.25	14	3.83	0.97	1.01	3.61)	IN/A
Major Extracranial Bleedin	ng, Truncation W	eight = 1, ATES W	eights, Age Group	: 50-64 yea	rs					
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	16,675	4,602.49	100.81	0.28	30	6.52	1.80	-0.56	0.91 (0.62,	0.637
Apixaban Users	81,715	28,407.01	126.97	0.35	201	7.08	2.46	0.50	1.34)	0.007

cder\_mpl2p\_wp047 Page 175 of 702



Table 3b. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tred	atment Weighted .	Analysis; Unweigł	nted, Trimmed							
Dabigatran Users	16,674	4,602.32	100.82	0.28	30	6.52	1.80	-0.56	N/A	N/A
Apixaban Users	81,643	28,388.32	127.00	0.35	201	7.08	2.46	-0.50	N/A	IN/A
Inverse Probability of Tred	atment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	15,562	4,396.32	103.19	0.28	35	7.97	2.25	1.15	1.18 (0.77,	NI/A
Apixaban Users	81,592	28,344.92	126.89	0.35	193	6.82	2.37	1.15	1.80)	N/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 176 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 3c. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

	Number of	Person Years	Average Person Days	Average Person Years	Numbe r of	Incidence Rate per 1,000	Risk per 1,000 New	Incidence Rate Difference per 1,000	Hazard Ratio (95% Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Person Years	Users	Person Years	Interval)	Value
Major Extracranial Bleedin	_	eight = 1, ATES \	Weights							
Site-Adjusted Analysis, Unv	_	F 274 F4	05.40	0.26	26	6.02	4.70		0.00.40.60	
Dabigatran Users	20,163	5,271.54	95.49	0.26	36	6.83	1.79	-0.10	0.98 (0.69,	0.914
Apixaban Users	96,668	32,203.97	121.68	0.33	223	6.92	2.31		1.40)	
Inverse Probability of Treat	ment Weighted	Analysis; Unweig	•							
Dabigatran Users	20,159	5,271.11	95.50	0.26	36	6.83	1.79	0.13	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	215	6.70	2.23	0.20	,	,
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weigi	ht = ATES, Trimmed	1 <sup>2</sup>						
Dabigatran Users	18,882	5,071.94	98.11	0.27	39	7.78	2.09	1.34	1.22 (0.82,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	206	6.44	2.14	1.54	1.81)	N/A
Major Extracranial Bleedin	ng, Truncation W	eight = 1, ATES \	Neights, Sex: Fema	ile						
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	4,706	1,318.26	102.32	0.28	13	9.86	2.76	1.86	1.21 (0.67,	0.532
Apixaban Users	28,211	10,128.41	131.13	0.36	81	8.00	2.87	1.00	2.17)	0.552
Inverse Probability of Treat	ment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	4,701	1,317.93	102.40	0.28	13	9.86	2.77	4.02	N1 / A	N1 / A
Apixaban Users	27,987	10,073.77	131.47	0.36	80	7.94	2.86	1.92	N/A	N/A
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weigi	ht = ATES, Trimmed	1 <sup>2</sup>						
Dabigatran Users	4,394	1,261.57	104.87	0.29	12	9.74	2.80	2.05	1.25 (0.64,	N1 / A
Apixaban Users	27,965	10,091.59	131.81	0.36	78	7.68	2.77	2.05	2.43)	N/A
Major Extracranial Bleedin	ng, Truncation W	eight = 1, ATES \	Weights, Sex: Male							
Site-Adjusted Analysis, Unv	_									
Dabigatran Users	15,453	3,952.85	93.43	0.26	23	5.82	1.49		0.95 (0.61,	
-	•	21,953.35		0.32	134	6.10	1.97	-0.29	1.48)	0.813

cder\_mpl2p\_wp047 Page 177 of 702



Table 3c. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Numbe r of Events	Incidence Rate per 1,000 Person Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person Years	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	15,444	3,951.52	93.45	0.26	23	5.82	1.49	-0.26	N/A	N/A
Apixaban Users	67,640	21,873.93	118.12	0.32	133	6.08	1.97	-0.20	N/A	IN/A
Inverse Probability of Trea	tment Weighted	Analysis <sup>1</sup> ; Weigl	ht = ATES, Trimmed	1 <sup>2</sup>						
Dabigatran Users	14,465	3,772.56	95.26	0.26	25	6.50	1.69	0.63	1.11 (0.68,	N/A
Apixaban Users	67,595	21,812.71	117.86	0.32	128	5.87	1.89	0.05	1.80)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 178 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 3d. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Major Extracranial Bleedin	ng, Truncation We	eight = 1, ATES We	eights							
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	36	6.83	1.79	-0.10	0.98 (0.69,	0.914
Apixaban Users	96,668	32,203.97	121.68	0.33	223	6.92	2.31	0.10	1.40)	0.514
Inverse Probability of Trea	tment Weighted A	nalysis; Unweight	ed, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	36	6.83	1.79	0.13	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	215	6.70	2.23	0.13	14//	14/71
Inverse Probability of Trea	tment Weighted A	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	39	7.78	2.09	1.34	1.22 (0.82,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	206	6.44	2.14	1.54	1.81)	14/74
Major Extracranial Bleedi	ng, Truncation We	eight = 2.5, ATES V	Veights, CHADVAS	C: <b>0</b>						
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	4,125	888.16	78.64	0.22	8	9.01	1.94	6.22	3.53 (1.39,	0.008
Apixaban Users	14,037	3,592.64	93.48	0.26	10	2.78	0.71	0.22	9.01)	0.000
Inverse Probability of Trea	tment Weighted A	nalysis; Unweight	ed, Trimmed							
Dabigatran Users	4,087	879.45	78.60	0.22	8	9.10	1.96	6.26	N/A	N/A
Apixaban Users	13,766	3,528.55	93.62	0.26	10	2.83	0.73	0.20	N/A	N/A
Inverse Probability of Trea	tment Weighted A	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	3,881	823.66	77.51	0.21	7	8.40	1.78	5.25	2.93 (1.08,	N/A
Apixaban Users	13,719	3,518.08	93.66	0.26	11	3.15	0.81	3.23	7.90)	14/74
Major Extracranial Bleedin	ng, Truncation We	eight = 2.5, ATES V	Veights, CHADVAS	C: 1						
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	7,293	1,849.50	92.63	0.25	6	3.24	0.82	-1.08	0.75 (0.32,	0.503
Apixaban Users	30,310	9,944.66	119.84	0.33	43	4.32	1.42	1.00	1.76)	0.505

cder\_mpl2p\_wp047 Page 179 of 702



Table 3d. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted A	analysis; Unweight	ed, Trimmed							
Dabigatran Users	7,275	1,846.11	92.69	0.25	6	3.25	0.82	-1.10	N/A	N/A
Apixaban Users	30,065	9,895.34	120.22	0.33	43	4.35	1.43	-1.10	N/A	IN/ A
Inverse Probability of Trea	tment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	6,746	1,733.14	93.84	0.26	5	2.81	0.72	-1.37	0.66 (0.27,	N/A
Apixaban Users	30,000	9,864.18	120.09	0.33	41	4.18	1.37	-1.57	1.62)	IV/A
<b>Major Extracranial Bleedi</b>	ng, Truncation We	eight = 2.5, ATES V	Veights, CHADVAS	C: <b>2</b>						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	5,417	1,552.77	104.70	0.29	7	4.51	1.29	-3.31	0.55 (0.25,	0.128
Apixaban Users	25,743	9,587.10	136.02	0.37	75	7.82	2.91	-5.51	1.19)	0.120
Inverse Probability of Trea	tment Weighted A	analysis; Unweight	ed, Trimmed							
Dabigatran Users	5,405	1,549.87	104.73	0.29	7	4.52	1.30	-3.23	N/A	N/A
Apixaban Users	25,596	9,548.66	136.26	0.37	74	7.75	2.89	-5.25	N/A	IN/ A
Inverse Probability of Trea	tment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	4,886	1,406.11	105.11	0.29	9	6.34	1.83	-1.06	0.81 (0.36,	N/A
Apixaban Users	25,510	9,519.60	136.30	0.37	70	7.40	2.76	-1.00	1.82)	IN/ A
Major Extracranial Bleedi	ng, Truncation We	eight = 2.5, ATES V	Veights, CHADVAS	C: 3						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	2,270	666.19	107.19	0.29	12	18.01	5.29	11.30	2.60 (1.35,	0.004
Apixaban Users	15,433	5,512.90	130.47	0.36	37	6.71	2.40	11.50	5.02)	0.004
Inverse Probability of Trea	tment Weighted A	analysis; Unweight	ed, Trimmed							
Dabigatran Users	2,246	660.55	107.42	0.29	12	18.17	5.34	11.37	N/A	N/A
Apixaban Users	15,182	5,447.03	131.05	0.36	37	6.79	2.44	11.57	IV/ C	13/ 🗥

cder\_mpl2p\_wp047 Page 180 of 702



Table 3d. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	1,913	568.87	108.62	0.30	9	16.13	4.80	9.50	2.30 (1.10,	N/A
Apixaban Users	15,147	5,455.73	131.56	0.36	36	6.63	2.39	5.50	4.82)	N/A
<b>Major Extracranial Bleedi</b>	ng, Truncation We	eight = 2.5, ATES V	Veights, CHADVASC	C: 4						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	802	228.57	104.10	0.28	3	13.13	3.74	-1.05	0.90 (0.28,	0.854
Apixaban Users	7,939	2,609.57	120.06	0.33	37	14.18	4.66	-1.03	2.91)	0.854
Inverse Probability of Trea	tment Weighted A	Analysis; Unweight	ed, Trimmed							
Dabigatran Users	779	221.74	103.97	0.28	3	13.53	3.85	-0.38	N/A	N/A
Apixaban Users	7,137	2,372.41	121.41	0.33	33	13.91	4.62	-0.36	N/A	IN/A
Inverse Probability of Trea	tment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	661	195.54	108.00	0.30	3	13.56	4.01	-0.08	1.00 (0.28,	N/A
Apixaban Users	7,121	2,380.20	122.08	0.33	32	13.64	4.56	-0.08	3.52)	IN/A
<b>Major Extracranial Bleedi</b>	ng, Truncation We	eight = 2.5, ATES V	Veights, CHADVASC	C: 5+						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	252	85.92	124.53	0.34	0	0.00	0.00	-15.57	NaN	N/A
Apixaban Users	2,738	834.89	111.38	0.30	13	15.57	4.75	-13.37	Ivaiv	IN/A
Inverse Probability of Trea	tment Weighted A	Analysis; Unweight	ed, Trimmed							
Dabigatran Users	224	75.24	122.69	0.34	0	0.00	0.00	-13.22	N/A	N/A
Apixaban Users	1,894	605.05	116.68	0.32	8	13.22	4.22	-13.22	IN/A	IN/A
Inverse Probability of Trea	tment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	179	62.44	127.28	0.35	0	0.00	0.00	-12.41	NaN	N/A
Apixaban Users	1,892	609.88	117.75	0.32	8	12.41	4.00	-12.41	INGIN	11/7

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

Page 181 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.

<sup>\*</sup>NaN: Not a Number



Table 3e. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Major Extracranial Bleedi	ng, Truncation W	eight = 1, ATES W	eights							
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	36	6.83	1.79	-0.10	0.98 (0.69,	0.914
Apixaban Users	96,668	32,203.97	121.68	0.33	223	6.92	2.31	0.10	1.40)	0.514
Inverse Probability of Trea	tment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	36	6.83	1.79	0.13	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	215	6.70	2.23	0.13	N/A	NA
Inverse Probability of Trea	tment Weighted	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	39	7.78	2.09	1.34	1.22 (0.82,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	206	6.44	2.14	1.54	1.81)	IN/ A
<b>Major Extracranial Bleedi</b>	ng, Truncation W	eight = 2.5, ATES	Weights, HASBLED:	0						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	5,809	1,349.29	84.84	0.23	10	7.41	1.72	4.57	2.86 (1.31,	0.008
Apixaban Users	21,862	6,325.65	105.68	0.29	18	2.85	0.82	4.57	6.24)	0.000
Inverse Probability of Trea	tment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	5,791	1,345.43	84.86	0.23	10	7.43	1.73	4.56	N/A	N/A
Apixaban Users	21,615	6,265.29	105.87	0.29	18	2.87	0.83	4.50	N/A	IN/ A
Inverse Probability of Trea	tment Weighted	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	5,408	1,263.65	85.34	0.23	8	6.67	1.56	3.65	2.35 (1.06,	N/A
Apixaban Users	21,541	6,218.74	105.45	0.29	19	3.02	0.87	3.03	5.21)	IN/ A
<b>Major Extracranial Bleedi</b>	ng, Truncation W	eight = 2.5, ATES	Weights, HASBLED:	1						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	11,451	3,152.68	100.56	0.28	16	5.08	1.40	0.20	1.00 (0.58,	0.996
Apixaban Users	51,557	18,442.73	130.66	0.36	90	4.88	1.75	3.20	1.70)	0.550

cder\_mpl2p\_wp047 Page 182 of 702



Table 3e. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	11,435	3,149.56	100.60	0.28	16	5.08	1.40	0.24	N/A	N/A
Apixaban Users	51,235	18,381.35	131.04	0.36	89	4.84	1.74	0.24	N/A	N/A
Inverse Probability of Trea	tment Weighted	Analysis <sup>1</sup> ; Weight	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	10,380	2,900.27	102.06	0.28	17	5.76	1.61	1.07	1.18 (0.66,	N/A
Apixaban Users	51,099	18,307.48	130.86	0.36	86	4.69	1.68	1.07	2.11)	IN/A
Major Extracranial Bleedi	ng, Truncation W	eight = 2.5, ATES	Weights, HASBLED:	2						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	2,424	647.66	97.59	0.27	8	12.35	3.30	0.71	1.03 (0.49,	0.934
Apixaban Users	17,216	5,756.82	122.14	0.33	67	11.64	3.89	0.71	2.15)	0.554
Inverse Probability of Trea	tment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	2,417	646.51	97.70	0.27	8	12.37	3.31	0.84	N/A	N/A
Apixaban Users	17,003	5,722.03	122.92	0.34	66	11.53	3.88	0.04	N/A	N/A
Inverse Probability of Trea	tment Weighted	Analysis <sup>1</sup> ; Weight	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	2,100	580.23	100.94	0.28	7	12.58	3.48	1.34	1.13 (0.50,	N/A
Apixaban Users	16,963	5,716.61	123.09	0.34	64	11.24	3.79	1.54	2.54)	11/7
Major Extracranial Bleedi	ng, Truncation W	eight = 2.5, ATES	Weights, HASBLED:	3+						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	475	121.49	93.42	0.26	2	16.46	4.21	-9.24	0.61 (0.15,	0.5
Apixaban Users	5,565	1,556.56	102.16	0.28	40	25.70	7.19	3.24	2.55)	0.5
Inverse Probability of Trea	tment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	458	119.35	95.18	0.26	2	16.76	4.37	-8.26	N/A	N/A
Apixaban Users	5,036	1,439.16	104.38	0.29	36	25.01	7.15	0.20	IV/A	14/75

cder\_mpl2p\_wp047 Page 183 of 702



Table 3e. Effect Estimates for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	365	96.74	96.76	0.26	1	13.20	3.50	-12.06	0.51 (0.12,	N/A
Apixaban Users	5,026	1,440.13	104.66	0.29	36	25.26	7.24	-12.00	2.22)	1N/ A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 184 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 4a. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Site-Adjusted Analysis, Unv	veighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	0.20	1.04 (0.71,	0.858
Apixaban Users	96,668	32,203.97	121.68	0.33	189	5.87	1.96	0.20	1.51)	0.636
Inverse Probability of Treat	ment Weighted	Analysis; Unweig	ghted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	0.43	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	181	5.64	1.88	0.45	N/A	N/A
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimme	$d^2$						
Dabigatran Users	18,882	5,071.94	98.11	0.27	37	7.20	1.93	1.77	1.34 (0.88,	NI/A
Apixaban Users	96,132	31,999.87	121.58	0.33	174	5.43	1.81	1.//	2.05)	N/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 185 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 4b. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Age Group

	Number of	Person Years	Average Person Days	Average Person Years	Number	Incidence Rate per 1,000	Risk per 1,000 New	Incidence Rate Difference per 1,000	Hazard Ratio (95% Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	of Events	Person Years	Users	Person Years	Interval)	Value
Gastrointestinal Hemorrh Site-Adjusted Analysis, Uni		weignt = 1, ATES	weights							
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59		1.04 (0.71,	
Apixaban Users	96,668	32,203.97	121.68	0.20	189	5.87	1.96	0.20	1.51)	0.858
·	•	•		0.55	109	5.67	1.90		1.31)	
Inverse Probability of Treat	_	, ,	•	0.26	22	C 07	1.50			
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	0.43	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	181	5.64	1.88			
Inverse Probability of Treat										
Dabigatran Users	18,882	5,071.94	98.11	0.27	37	7.20	1.93	1.77	1.34 (0.88,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	174	5.43	1.81		2.05)	•
<b>Gastrointestinal Hemorrh</b>	age, Truncation	Weight = 1, ATES	Weights, Age Gro	up: 21-49 ye	ars					
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	3,484	668.62	70.10	0.19	4	5.98	1.15	4.35	3.99 (1.10,	0.036
Apixaban Users	14,485	3,674.75	92.66	0.25	6	1.63	0.41	4.55	14.50)	0.050
Inverse Probability of Treat	tment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	3,454	663.72	70.19	0.19	4	6.03	1.16	4.35	N/A	N/A
Apixaban Users	14,105	3,583.54	92.80	0.25	6	1.67	0.43	4.55	IN/A	IN/A
Inverse Probability of Treat	tment Weighted	Analysis <sup>1</sup> ; Weigl	ht = ATES, Trimmed	l <sup>2</sup>						
Dabigatran Users	3,285	647.43	71.99	0.20	2	3.37	0.66	4.77	2.34 (0.63,	N1 / A
Apixaban Users	14,098	3,571.57	92.53	0.25	6	1.60	0.41	1.77	8.69)	N/A
Gastrointestinal Hemorrh	age, Truncation	Weight = 1, ATES	Weights, Age Gro	up: 50-64 ye	ars					
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	16,675	4,602.49	100.81	0.28	28	6.08	1.68	0.00	0.98 (0.65,	0.011
Apixaban Users	81,715	28,407.01	126.97	0.35	175	6.16	2.14	-0.08	1.46)	0.911

cder\_mpl2p\_wp047



Table 4b. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tree	atment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	16,674	4,602.32	100.82	0.28	28	6.08	1.68	-0.08	N/A	N/A
Apixaban Users	81,643	28,388.32	127.00	0.35	175	6.16	2.14	-0.08	N/A	IN/A
Inverse Probability of Tree	atment Weighted	Analysis <sup>1</sup> ; Weigl	ht = ATES, Trimmed	1 <sup>2</sup>						
Dabigatran Users	15,562	4,396.32	103.19	0.28	33	7.54	2.13	1.58	1.27 (0.82,	N/A
Apixaban Users	81,592	28,344.92	126.89	0.35	169	5.96	2.07	1.56	1.98)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 187 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 4c. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
<b>Gastrointestinal Hemorrha</b>	age, Truncation V	Veight = 1, ATES W	eights							
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	0.20	1.04 (0.71,	0.858
Apixaban Users	96,668	32,203.97	121.68	0.33	189	5.87	1.96	0.20	1.51)	0.030
Inverse Probability of Treat	tment Weighted A	Analysis; Unweighte	ed, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	0.43	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	181	5.64	1.88	0.43	N/A	IV/A
Inverse Probability of Treat	tment Weighted A	Analysis <sup>1</sup> ; Weight =	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	37	7.20	1.93	1.77	1.34 (0.88,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	174	5.43	1.81	1.77	2.05)	IN/A
<b>Gastrointestinal Hemorrh</b>	age, Truncation V	Veight = 1, ATES W	eights, Sex: Female	•						
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	4,706	1,318.26	102.32	0.28	11	8.34	2.34	2.12	1.34 (0.70,	0.375
Apixaban Users	28,211	10,128.41	131.13	0.36	63	6.22	2.23	2.12	2.55)	0.575
Inverse Probability of Treat	tment Weighted A	Analysis; Unweighte	ed, Trimmed							
Dabigatran Users	4,701	1,317.93	102.40	0.28	11	8.35	2.34	2.19	N/A	N/A
Apixaban Users	27,987	10,073.77	131.47	0.36	62	6.15	2.22	2.13	N/A	IV/A
Inverse Probability of Treat	tment Weighted A	\nalysis <sup>1</sup> ; Weight =	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	4,394	1,261.57	104.87	0.29	11	8.88	2.55	2.95	1.49 (0.73,	N/A
Apixaban Users	27,965	10,091.59	131.81	0.36	60	5.94	2.14	2.55	3.07)	11/7
<b>Gastrointestinal Hemorrha</b>	age, Truncation V	Veight = 1, ATES W	eights, Sex: Male							
Site-Adjusted Analysis, Uni	weighted									
Dabigatran Users	15,453	3,952.85	93.43	0.26	21	5.31	1.36	-0.06	0.98 (0.62,	0.936
Apixaban Users	67,989	21,953.35	117.94	0.32	118	5.38	1.74	3.00	1.56)	0.550

cder\_mpl2p\_wp047 Page 188 of 702



Table 4c. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tre	eatment Weighted A	Analysis; Unweighte	ed, Trimmed							
Dabigatran Users	15,444	3,951.52	93.45	0.26	21	5.31	1.36	-0.03	N/A	N/A
Apixaban Users	67,640	21,873.93	118.12	0.32	117	5.35	1.73	-0.03	N/A	IN/A
Inverse Probability of Tro	eatment Weighted A	Analysis <sup>1</sup> ; Weight :	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	14,465	3,772.56	95.26	0.26	23	6.02	1.57	0.84	1.16 (0.70,	N/A
Apixaban Users	67,595	21,812.71	117.86	0.32	113	5.18	1.67	0.64	1.94)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 189 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 4d. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
<b>Gastrointestinal Hemorrha</b>	ge, Truncation \	Weight = 1, ATES	Neights							
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	0.20	1.04 (0.71,	0.858
Apixaban Users	96,668	32,203.97	121.68	0.33	189	5.87	1.96	0.20	1.51)	0.050
Inverse Probability of Treat	ment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	0.43	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	181	5.64	1.88	0.43	N/A	NA
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weight	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	37	7.20	1.93	1.77	1.34 (0.88,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	174	5.43	1.81	1.77	2.05)	IN/A
<b>Gastrointestinal Hemorrha</b>	ge, Truncation \	Weight = 2.5, ATE	S Weights, CHADVA	ASC: 0						
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	4,125	888.16	78.64	0.22	7	7.88	1.70	5.38	3.52 (1.30,	0.013
Apixaban Users	14,037	3,592.64	93.48	0.26	9	2.51	0.64	5.56	9.52)	0.013
Inverse Probability of Treat	ment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	4,087	879.45	78.60	0.22	7	7.96	1.71	5.41	N/A	N/A
Apixaban Users	13,766	3,528.55	93.62	0.26	9	2.55	0.65	3.41	N/A	IN/A
Inverse Probability of Treat	ment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	3,881	823.66	77.51	0.21	6	7.72	1.64	4.89	3.07 (1.07,	N/A
Apixaban Users	13,719	3,518.08	93.66	0.26	10	2.82	0.72	4.69	8.77)	IN/A
<b>Gastrointestinal Hemorrha</b>	ge, Truncation \	Weight = 2.5, ATE	S Weights, CHADVA	SC: 1						
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	7,293	1,849.50	92.63	0.25	5	2.70	0.69	-1.02	0.73 (0.29,	0.519
Apixaban Users	30,310	9,944.66	119.84	0.33	37	3.72	1.22	-1.02	1.88)	0.515

cder\_mpl2p\_wp047 Page 190 of 702



Table 4d. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	7,275	1,846.11	92.69	0.25	5	2.71	0.69	-1.03	N/A	N/A
Apixaban Users	30,065	9,895.34	120.22	0.33	37	3.74	1.23	-1.05	N/A	N/A
Inverse Probability of Trea	tment Weighted .	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	6,746	1,733.14	93.84	0.26	4	2.42	0.62	-1.18	0.67 (0.25,	N/A
Apixaban Users	30,000	9,864.18	120.09	0.33	36	3.60	1.18	-1.10	1.79)	N/A
<b>Gastrointestinal Hemorrh</b>	age, Truncation \	Weight = 2.5, ATE	S Weights, CHADVA	ASC: 2						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	5,417	1,552.77	104.70	0.29	6	3.86	1.11	-2.60	0.57 (0.24,	0.185
Apixaban Users	25,743	9,587.10	136.02	0.37	62	6.47	2.41	2.00	1.31)	0.103
Inverse Probability of Trea	tment Weighted .	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	5,405	1,549.87	104.73	0.29	6	3.87	1.11	-2.52	N/A	N/A
Apixaban Users	25,596	9,548.66	136.26	0.37	61	6.39	2.38	2.52	N/A	14/75
Inverse Probability of Trea	tment Weighted .	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	4,886	1,406.11	105.11	0.29	8	5.81	1.67	-0.31	0.90 (0.38,	N/A
Apixaban Users	25,510	9,519.60	136.30	0.37	58	6.12	2.28	0.51	2.12)	14/74
<b>Gastrointestinal Hemorrh</b>	age, Truncation \	Weight = 2.5, ATE	S Weights, CHADVA	ASC: 3						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	2,270	666.19	107.19	0.29	11	16.51	4.85	11.07	2.99 (1.49,	0.002
Apixaban Users	15,433	5,512.90	130.47	0.36	30	5.44	1.94	11.07	6.01)	0.002
Inverse Probability of Trea	tment Weighted .	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	2,246	660.55	107.42	0.29	11	16.65	4.90	11.15	N/A	N/A
Apixaban Users	15,182	5,447.03	131.05	0.36	30	5.51	1.98	11.13	14/75	N/A

cder\_mpl2p\_wp047 Page 191 of 702



Table 4d. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	ntment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	1,913	568.87	108.62	0.30	8	14.12	4.20	8.79	2.52 (1.13,	N/A
Apixaban Users	15,147	5,455.73	131.56	0.36	29	5.33	1.92	8.79	5.64)	IV/A
<b>Gastrointestinal Hemorrh</b>	nage, Truncation \	Weight = 2.5, ATE	S Weights, CHADVA	SC: 4						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	802	228.57	104.10	0.28	3	13.13	3.74	0.86	1.02 (0.31,	0.974
Apixaban Users	7,939	2,609.57	120.06	0.33	32	12.26	4.03	0.80	3.34)	0.574
Inverse Probability of Trea	ntment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	779	221.74	103.97	0.28	3	13.53	3.85	1.73	N/A	N/A
Apixaban Users	7,137	2,372.41	121.41	0.33	28	11.80	3.92	1.75	IN/A	IN/A
Inverse Probability of Trea	ntment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	661	195.54	108.00	0.30	3	13.56	4.01	1.94	1.15 (0.32,	N/A
Apixaban Users	7,121	2,380.20	122.08	0.33	28	11.62	3.88	1.94	4.09)	IN/A
<b>Gastrointestinal Hemorrh</b>	nage, Truncation \	Weight = 2.5, ATE	S Weights, CHADVA	SC: 5+						
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	252	85.92	124.53	0.34	0	0.00	0.00	-13.18	NaN	N/A
Apixaban Users	2,738	834.89	111.38	0.30	11	13.18	4.02	-13.16	IValv	IN/A
Inverse Probability of Trea	ntment Weighted	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	224	75.24	122.69	0.34	0	0.00	0.00	11 [7	N/A	N/A
Apixaban Users	1,894	605.05	116.68	0.32	7	11.57	3.70	-11.57	N/A	IN/A
Inverse Probability of Trea	ntment Weighted	Analysis <sup>1</sup> ; Weight	t = ATES, Trimmed <sup>2</sup>							
Dabigatran Users	179	62.44	127.28	0.35	0	0.00	0.00	-10.78	NaN	N/A
Apixaban Users	1,892	609.88	117.75	0.32	7	10.78	3.47	-10.76	INdIN	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

Page 192 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.

<sup>\*</sup>NaN: Not a Number



Table 4e. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
<b>Gastrointestinal Hemorrha</b>	ge, Truncation V	Veight = 1, ATES V	Veights							
Site-Adjusted Analysis, Unw	reighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	32	6.07	1.59	0.20	1.04 (0.71,	0.858
Apixaban Users	96,668	32,203.97	121.68	0.33	189	5.87	1.96	0.20	1.51)	0.030
Inverse Probability of Treatr	ment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	32	6.07	1.59	0.43	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	181	5.64	1.88	0.43	14//	14,71
Inverse Probability of Treatr	ment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	37	7.20	1.93	1.77	1.34 (0.88,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	174	5.43	1.81	1.77	2.05)	IN/A
<b>Gastrointestinal Hemorrha</b>	ge, Truncation V	Veight = 2.5, ATES	Weights, HASBLE	D: 0						
Site-Adjusted Analysis, Unw	eighted									
Dabigatran Users	5,809	1,349.29	84.84	0.23	9	6.67	1.55	3.98	2.76 (1.22,	0.015
Apixaban Users	21,862	6,325.65	105.68	0.29	17	2.69	0.78	3.30	6.23)	0.013
Inverse Probability of Treatr	ment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	5,791	1,345.43	84.86	0.23	9	6.69	1.55	3.98	N/A	N/A
Apixaban Users	21,615	6,265.29	105.87	0.29	17	2.71	0.79	3.30	14//	14,71
Inverse Probability of Treatr	nent Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	5,408	1,263.65	85.34	0.23	8	6.24	1.46	3.37	2.34 (1.02,	N/A
Apixaban Users	21,541	6,218.74	105.45	0.29	18	2.87	0.83	3.37	5.34)	IN/A
<b>Gastrointestinal Hemorrha</b>	ge, Truncation V	Veight = 2.5, ATES	Weights, HASBLE	D: 1						
Site-Adjusted Analysis, Unw	eighted									
Dabigatran Users	11,451	3,152.68	100.56	0.28	14	4.44	1.22	0.27	1.03 (0.58,	0.917
Apixaban Users	51,557	18,442.73	130.66	0.36	77	4.18	1.49	0.27	1.83)	0.517

cder\_mpl2p\_wp047 Page 193 of 702



Table 4e. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tree	atment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	11,435	3,149.56	100.60	0.28	14	4.45	1.22	0.31	N/A	N/A
Apixaban Users	51,235	18,381.35	131.04	0.36	76	4.13	1.48	0.51	IN/A	N/A
Inverse Probability of Tree	atment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	10,380	2,900.27	102.06	0.28	15	5.21	1.46	1.18	1.26 (0.67,	N/A
Apixaban Users	51,099	18,307.48	130.86	0.36	74	4.02	1.44	1.10	2.35)	N/A
<b>Gastrointestinal Hemorr</b>	hage, Truncation V	Veight = 2.5, ATES	Weights, HASBLE	D: 2						
Site-Adjusted Analysis, Ui	nweighted									
Dabigatran Users	2,424	647.66	97.59	0.27	7	10.81	2.89	1.08	1.08 (0.49,	0.845
Apixaban Users	17,216	5,756.82	122.14	0.33	56	9.73	3.25	1.08	2.38)	0.845
Inverse Probability of Tre	atment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	2,417	646.51	97.70	0.27	7	10.83	2.90	1.04	N/A	N/A
Apixaban Users	17,003	5,722.03	122.92	0.34	56	9.79	3.29	1.04	N/A	IN/A
Inverse Probability of Tree	atment Weighted A	Analysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	2,100	580.23	100.94	0.28	7	11.70	3.23	2.24	1.25 (0.53,	N/A
Apixaban Users	16,963	5,716.61	123.09	0.34	54	9.46	3.19	2.24	2.96)	IN/A
<b>Gastrointestinal Hemorr</b>	hage, Truncation V	Veight = 2.5, ATES	Weights, HASBLE	D: 3+						
Site-Adjusted Analysis, Ui	nweighted									
Dabigatran Users	475	121.49	93.42	0.26	2	16.46	4.21	-3.45	0.74 (0.17,	0.679
Apixaban Users	5,565	1,556.56	102.16	0.28	31	19.92	5.57	-3. <del>4</del> 3	3.11)	0.075
Inverse Probability of Tre	atment Weighted A	Analysis; Unweigh	ted, Trimmed							
Dabigatran Users	458	119.35	95.18	0.26	2	16.76	4.37	-2.70	N/A	N/A
Apixaban Users	5,036	1,439.16	104.38	0.29	28	19.46	5.56	-2.70	IV/A	13/74

cder\_mpl2p\_wp047 Page 194 of 702



Table 4e. Effect Estimates for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted A	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	365	96.74	96.76	0.26	1	13.20	3.50	-6.44	0.63 (0.14,	N/A
Apixaban Users	5,026	1,440.13	104.66	0.29	28	19.64	5.63	-0.44	2.81)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 195 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 5a. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Site-Adjusted Analysis, Un	weighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	8	1.52	0.40	0.31	1.25 (0.58,	0.562
Apixaban Users	96,668	32,203.97	121.68	0.33	39	1.21	0.40	0.31	2.69)	0.302
Inverse Probability of Trea	atment Weighted	Analysis; Unweig	hted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	8	1.52	0.40	0.33	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	38	1.18	0.40	0.55	IN/A	IN/A
Inverse Probability of Trea	atment Weighted	Analysis <sup>1</sup> ; Weigh	t = ATES, Trimmed	2						
Dabigatran Users	18,882	5,071.94	98.11	0.27	8	1.65	0.44	0.49	1.43 (0.58,	NI/A
Apixaban Users	96,132	31,999.87	121.58	0.33	37	1.16	0.39	0.49	3.52)	N/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 196 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 5b. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Intracranial Hemorrhage, 1	Truncation Weigh	t = 1, ATES Weigh	nts							
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	8	1.52	0.40	0.31	1.25 (0.58,	0.562
Apixaban Users	96,668	32,203.97	121.68	0.33	39	1.21	0.40	0.51	2.69)	0.302
Inverse Probability of Treat	ment Weighted A	nalysis; Unweight	ed, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	8	1.52	0.40	0.33	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	38	1.18	0.40	0.33	NA	N/A
Inverse Probability of Treat	ment Weighted A	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	8	1.65	0.44	0.49	1.43 (0.58,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	37	1.16	0.39	0.45	3.52)	IN/A
Intracranial Hemorrhage, 1	Truncation Weigh	t = 1, ATES Weigh	nts, Age Group: 21-	-49 years						
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	3,484	668.62	70.10	0.19	0	0.00	0.00	-0.27	NaN	N/A
Apixaban Users	14,485	3,674.75	92.66	0.25	1	0.27	0.07	0.27	IVAIV	IV/A
Inverse Probability of Treat	ment Weighted A	nalysis; Unweight	ed, Trimmed							
Dabigatran Users	3,454	663.72	70.19	0.19	0	0.00	0.00	-0.28	N/A	N/A
Apixaban Users	14,105	3,583.54	92.80	0.25	1	0.28	0.07	0.20	N/A	IV/A
Inverse Probability of Treat	ment Weighted A	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	3,285	647.43	71.99	0.20	0	0.00	0.00	-0.32	NaN	N/A
Apixaban Users	14,098	3,571.57	92.53	0.25	1	0.32	0.08	-0.52	IVAIV	IN/A
Intracranial Hemorrhage, 1	Truncation Weigh	t = 1, ATES Weigh	nts, Age Group: 50	-64 years						
Site-Adjusted Analysis, Unw	veighted									
Dabigatran Users	16,675	4,602.49	100.81	0.28	8	1.74	0.48	0.44	1.33 (0.62,	0.468
Apixaban Users	81,715	28,407.01	126.97	0.35	37	1.30	0.45	0.77	2.86)	0.400

cder\_mpl2p\_wp047 Page 197 of 702



Table 5b. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, 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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Tree	atment Weighted A	nalysis; Unweight	ted, Trimmed							
Dabigatran Users	16,674	4,602.32	100.82	0.28	8	1.74	0.48	0.43	N/A	N/A
Apixaban Users	81,643	28,388.32	127.00	0.35	37	1.30	0.45	0.43	IN/A	IN/A
Inverse Probability of Tree	atment Weighted A	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	15,562	4,396.32	103.19	0.28	8	1.86	0.53	0.59	1.46 (0.59,	NI/A
Apixaban Users	81,592	28,344.92	126.89	0.35	36	1.27	0.44	0.59	3.57)	N/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 198 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.

<sup>\*</sup>NaN: Not a Number



Table 5c. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

	Number of	Person Years	Average Person Days	Average Person Years	Number	Incidence Rate per 1,000	Risk per 1,000 New	Incidence Rate Difference per 1,000	Hazard Ratio (95% Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	of Events	Person Years	Users	Person Years	Interval)	Value
Intracranial Hemorrhage, Tru	uncation Weight	= 1, ATES Weigh	nts							
Site-Adjusted Analysis, Unwe	ighted									
Dabigatran Users	20,163	5,271.54	95.49	0.26	8	1.52	0.40	0.31	1.25 (0.58, 2.69)	0.562
Apixaban Users	96,668	32,203.97	121.68	0.33	39	1.21	0.40	0.31	1.23 (0.30, 2.03)	0.502
Inverse Probability of Treatm	ent Weighted An	alysis; Unweight	ted, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	8	1.52	0.40	0.33	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	38	1.18	0.40	0.55	N/A	NA
Inverse Probability of Treatm	ent Weighted An	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	18,882	5,071.94	98.11	0.27	8	1.65	0.44	0.49	1.43 (0.58, 3.52)	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	37	1.16	0.39	0.43	1.43 (0.30, 3.32)	14/74
Intracranial Hemorrhage, Tru	uncation Weight	= 1, ATES Weigh	nts, Sex: Female							
Site-Adjusted Analysis, Unwe	ighted									
Dabigatran Users	4,706	1,318.26	102.32	0.28	1	0.76	0.21	0.17	1.14 (0.14, 9.56)	0.904
Apixaban Users	28,211	10,128.41	131.13	0.36	6	0.59	0.21	0.17	1.14 (0.14, 5.50)	0.504
Inverse Probability of Treatm	ent Weighted An	alysis; Unweight	ted, Trimmed							
Dabigatran Users	4,701	1,317.93	102.40	0.28	0	0.00	0.00	-0.60	N/A	N/A
Apixaban Users	27,987	10,073.77	131.47	0.36	6	0.60	0.21	0.00	N/A	N/A
Inverse Probability of Treatm	ent Weighted An	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	4,394	1,261.57	104.87	0.29	0	0.00	0.00	-0.58	NaN	N/A
Apixaban Users	27,965	10,091.59	131.81	0.36	6	0.58	0.21	0.56	INGIN	14/ 🗥
Intracranial Hemorrhage, Tru	uncation Weight	= 1, ATES Weigh	nts, Sex: Male							
Site-Adjusted Analysis, Unwe	ighted									
Dabigatran Users	15,453	3,952.85	93.43	0.26	7	1.77	0.45	0.31	1.26 (0.55, 2.86)	0.583
Apixaban Users	67,989	21,953.35	117.94	0.32	32	1.46	0.47	0.51	1.20 (0.55, 2.00)	0.505

cder\_mpl2p\_wp047 Page 199 of 702



Table 5c. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and Sex

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Trea	tment Weighted Ar	nalysis; Unweight	ted, Trimmed							
Dabigatran Users	15,444	3,951.52	93.45	0.26	7	1.77	0.45	0.35	N/A	N/A
Apixaban Users	67,640	21,873.93	118.12	0.32	31	1.42	0.46	0.55	N/A	N/A
Inverse Probability of Trea	tment Weighted Ar	nalysis <sup>1</sup> ; Weight	= ATES, Trimmed <sup>2</sup>							
Dabigatran Users	14,465	3,772.56	95.26	0.26	8	2.23	0.58	0.84	1 62 (0 64 4 15)	N/A
Apixaban Users	67,595	21,812.71	117.86	0.32	30	1.39	0.45	0.64	1.63 (0.64, 4.15)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 200 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.

<sup>\*</sup>NaN: Not a Number



Table 5d. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

			Average	Average		Incidence	Risk per	Incidence Rate Difference per	Hazard Ratio (95%	
	Number of	Person Years	_	Person Years	Number	Rate per 1,000	1,000	1,000	Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	of Events	Person Years	New Users	Person Years	Interval)	Value
Intracranial Hemorrhage, Truncati	ion Weight = 1	1, ATES Weights								
Site-Adjusted Analysis, Unweighted	d									
Dabigatran Users	20,163	5,271.54	95.49	0.26	8	1.52	0.40	0.31	1.25 (0.58,	0.562
Apixaban Users	96,668	32,203.97	121.68	0.33	39	1.21	0.40	0.31	2.69)	0.302
Inverse Probability of Treatment W	eighted Analy	ısis; Unweighted	d, Trimmed							
Dabigatran Users	20,159	5,271.11	95.50	0.26	8	1.52	0.40	0.33	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	38	1.18	0.40	0.55	N/A	IN/ A
Inverse Probability of Treatment W	eighted Analy	vsis <sup>1</sup> ; Weight = .	ATES, Trimmed	$d^2$						
Dabigatran Users	18,882	5,071.94	98.11	0.27	8	1.65	0.44	0.49	1.43 (0.58,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	37	1.16	0.39	0.49	3.52)	IN/A
Intracranial Hemorrhage, Truncati	on Weight = 2	2.5, ATES Weigh	its, CHADVASC	<b>:: 0</b>						
Site-Adjusted Analysis, Unweighted	1									
Dabigatran Users	4,125	888.16	78.64	0.22	2	2.25	0.48	1.70	4.53 (0.63,	0.133
Apixaban Users	14,037	3,592.64	93.48	0.26	2	0.56	0.14	1.70	32.52)	0.133
Inverse Probability of Treatment W	eighted Analy	ısis; Unweighted	d, Trimmed							
Dabigatran Users	4,087	879.45	78.60	0.22	2	2.27	0.49	1.99	N/A	N/A
Apixaban Users	13,766	3,528.55	93.62	0.26	1	0.28	0.07	1.55	IN/A	IN/A
Inverse Probability of Treatment W	eighted Analy	vsis <sup>1</sup> ; Weight = .	ATES, Trimmed	$d^2$						
Dabigatran Users	3,881	823.66	77.51	0.21	1	1.55	0.33	1.20	5.10 (0.60,	N/A
Apixaban Users	13,719	3,518.08	93.66	0.26	1	0.35	0.09	1.20	43.17)	IN/A
Intracranial Hemorrhage, Truncati	on Weight = 2	2.5, ATES Weigh	its, CHADVASC	: 1						
Site-Adjusted Analysis, Unweighted	d									
Dabigatran Users	7,293	1,849.50	92.63	0.25	1	0.54	0.14	-0.46	0.50 (0.06,	0.508
Apixaban Users	30,310	9,944.66	119.84	0.33	10	1.01	0.33	-0.40	3.91)	0.508

Inverse Probability of Treatment Weighted Analysis; Unweighted, Trimmed

cder\_mpl2p\_wp047 Page 201 of 702



Table 5d. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Dabigatran Users	7,275	1,846.11	92.69	0.25	1	0.54	0.14	-0.47	N/A	N/A
Apixaban Users	30,065	9,895.34	120.22	0.33	10	1.01	0.33	0.47	N/A	NA
Inverse Probability of Treatment V	Veighted Analy	vsis <sup>1</sup> ; Weight = /	ATES, Trimmed	$d^2$						
Dabigatran Users	6,746	1,733.14	93.84	0.26	1	0.41	0.10	-0.64	0.37 (0.05,	N/A
Apixaban Users	30,000	9,864.18	120.09	0.33	10	1.04	0.34	-0.04	2.74)	IV/ A
Intracranial Hemorrhage, Truncat	tion Weight = 2	2.5, ATES Weigh	ts, CHADVASO	2: 2						
Site-Adjusted Analysis, Unweighte	d									
Dabigatran Users	5,417	1,552.77	104.70	0.29	0	0.00	0.00	-0.83	NaN	N/A
Apixaban Users	25,743	9,587.10	136.02	0.37	8	0.83	0.31	0.00		,
Inverse Probability of Treatment V	Veighted Analy	ısis; Unweighted	l, Trimmed							
Dabigatran Users	5,405	1,549.87	104.73	0.29	0	0.00	0.00	-0.84	N/A	N/A
Apixaban Users	25,596	9,548.66	136.26	0.37	8	0.84	0.31	0.04	N/A	NA
Inverse Probability of Treatment V	Veighted Analy	vsis ¹ ; Weight = /	ATES, Trimmed	$d^2$						
Dabigatran Users	4,886	1,406.11	105.11	0.29	0	0.00	0.00	-0.83	NaN	N/A
Apixaban Users	25,510	9,519.60	136.30	0.37	8	0.83	0.31	-0.03	IValV	IV/ A
Intracranial Hemorrhage, Truncat	tion Weight = 2	2.5, ATES Weigh	ts, CHADVASO	2: 3						
Site-Adjusted Analysis, Unweighte	d									
Dabigatran Users	2,270	666.19	107.19	0.29	2	3.00	0.88	1.19	1.82 (0.39,	0.443
Apixaban Users	15,433	5,512.90	130.47	0.36	10	1.81	0.65	1.15	8.40)	0.443
Inverse Probability of Treatment V	Veighted Analy	vsis; Unweighted	l, Trimmed							
Dabigatran Users	2,246	660.55	107.42	0.29	2	3.03	0.89	1.19	N/A	N/A
Apixaban Users	15,182	5,447.03	131.05	0.36	10	1.84	0.66	1.19	IN/A	IN/ A
Inverse Probability of Treatment V	Veighted Analy	vsis <sup>1</sup> ; Weight = /	ATES, Trimmed	$d^2$						
Dabigatran Users										
	1,913	568.87	108.62	0.30	1	2.40	0.71	0.66	1.58 (0.32,	N/A

cder\_mpl2p\_wp047 Page 202 of 702



Table 5d. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and CHADVASC

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Intracranial Hemorrhage, Truncati					01 210110	r croon rears	11011 03013	1 010011 1 0010		
Site-Adjusted Analysis, Unweighted	d									
Dabigatran Users	802	228.57	104.10	0.28	3	13.13	3.74	11.59	8.50 (1.88,	0.005
Apixaban Users	7,939	2,609.57	120.06	0.33	4	1.53	0.50	11.59	38.37)	0.005
Inverse Probability of Treatment W	eighted Analy	sis; Unweighted	d, Trimmed							
Dabigatran Users	779	221.74	103.97	0.28	3	13.53	3.85	12.26	N/A	N/A
Apixaban Users	7,137	2,372.41	121.41	0.33	3	1.26	0.42	12.20	NA	N/A
Inverse Probability of Treatment W	eighted Analy	sis <sup>1</sup> ; Weight = .	ATES, Trimmed	$d^2$						
Dabigatran Users	661	195.54	108.00	0.30	4	22.13	6.54	20.90	16.28 (3.51,	N/A
Apixaban Users	7,121	2,380.20	122.08	0.33	3	1.23	0.41	20.30	75.44)	14/74
Intracranial Hemorrhage, Truncati	ion Weight = 2	2.5, ATES Weigh	its, CHADVASC	C: 5+						
Site-Adjusted Analysis, Unweighted	d									
Dabigatran Users	252	85.92	124.53	0.34	0	0.00	0.00	-4.79	NaN	N/A
Apixaban Users	2,738	834.89	111.38	0.30	4	4.79	1.46	4.73	TVGTV	14,71
Inverse Probability of Treatment W	eighted Analy	sis; Unweighted	d, Trimmed							
Dabigatran Users	224	75.24	122.69	0.34	0	0.00	0.00	-3.31	N/A	N/A
Apixaban Users	1,894	605.05	116.68	0.32	2	3.31	1.06	-3.31	IN/A	IN/ A
Inverse Probability of Treatment W	eighted Analy	sis <sup>1</sup> ; Weight = .	ATES, Trimmed	$d^2$						
Dabigatran Users	179	62.44	127.28	0.35	0	0.00	0.00	-3.27	NaN	N/A
Apixaban Users	1,892	609.88	117.75	0.32	2	3.27	1.05	-3.27	INGIN	IN/ A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047 Page 203 of 702

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.

<sup>\*</sup>NaN: Not a Number



Table 5e. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

	Number of	Person Years	Average Person Days	Average Person Years	Number of	Incidence Rate per 1,000	Risk per 1,000 New	Incidence Rate Difference per 1,000	Hazard Ratio (95% Confidence	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Person Years	Users	Person Years	Interval)	Value
Intracranial Hemorrhage, Truncation	Weight = 1, AT	ES Weights								
Site-Adjusted Analysis, Unweighted										
Dabigatran Users	20,163	5,271.54	95.49	0.26	8	1.52	0.40	0.31	1.25 (0.58,	0.562
Apixaban Users	96,668	32,203.97	121.68	0.33	39	1.21	0.40	0.51	2.69)	0.502
Inverse Probability of Treatment Weig	ghted Analysis; l	Jnweighted, Trim	med							
Dabigatran Users	20,159	5,271.11	95.50	0.26	8	1.52	0.40	0.33	N/A	N/A
Apixaban Users	96,200	32,081.76	121.81	0.33	38	1.18	0.40	0.55	N/A	N/A
Inverse Probability of Treatment Weighted Analysis <sup>1</sup> ; Weight = ATES, Trimmed <sup>2</sup>										
Dabigatran Users	18,882	5,071.94	98.11	0.27	8	1.65	0.44	0.49	1.43 (0.58,	N/A
Apixaban Users	96,132	31,999.87	121.58	0.33	37	1.16	0.39	0.43	3.52)	N/A
Intracranial Hemorrhage, Truncation	Weight = 2.5, A	ATES Weights, HA	SBLED: 0							
Site-Adjusted Analysis, Unweighted										
Dabigatran Users	5,809	1,349.29	84.84	0.23	3	2.22	0.52	1.59	3.32 (0.74,	0.119
Apixaban Users	21,862	6,325.65	105.68	0.29	4	0.63	0.18	1.55	14.97)	0.113
Inverse Probability of Treatment Weig	ghted Analysis; l	Jnweighted, Trim	med							
Dabigatran Users	5,791	1,345.43	84.86	0.23	3	2.23	0.52	1.59	N/A	N/A
Apixaban Users	21,615	6,265.29	105.87	0.29	4	0.64	0.19	1.55	NA	N/A
Inverse Probability of Treatment Weig	ghted Analysis <sup>1</sup>	; Weight = ATES, T	Trimmed <sup>2</sup>							
Dabigatran Users	5,408	1,263.65	85.34	0.23	2	1.44	0.34	0.77	2.14 (0.51,	N/A
Apixaban Users	21,541	6,218.74	105.45	0.29	4	0.66	0.19	0.77	8.94)	11/7
Intracranial Hemorrhage, Truncation	Weight = 2.5, A	ATES Weights, HA	SBLED: 1							
Site-Adjusted Analysis, Unweighted										
Dabigatran Users	11,451	3,152.68	100.56	0.28	3	0.95	0.26	0.08	1.10 (0.32, 3.80)	0.878
Apixaban Users	51,557	18,442.73	130.66	0.36	16	0.87	0.31	0.08		0.676

cder\_mpl2p\_wp047 Page 204 of 702



Table 5e. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Treatment Wei	ghted Analysis; l	Jnweighted, Trim	med							
Dabigatran Users	11,435	3,149.56	100.60	0.28	3	0.95	0.26	0.08	N/A	N/A
Apixaban Users	51,235	18,381.35	131.04	0.36	16	0.87	0.31	0.00	14/74	1477
Inverse Probability of Treatment Wei	ghted Analysis <sup>1</sup>	; Weight = ATES, T	Trimmed <sup>2</sup>							
Dabigatran Users	10,380	2,900.27	102.06	0.28	3	1.14	0.32	0.23	1.27 (0.33,	N/A
Apixaban Users	51,099	18,307.48	130.86	0.36	17	0.91	0.32	0.23	4.83)	IN/A
Intracranial Hemorrhage, Truncation Weight = 2.5, ATES Weights, HASBLED: 2										
Site-Adjusted Analysis, Unweighted										
Dabigatran Users	2,424	647.66	97.59	0.27	1	1.54	0.41	-0.19	0.91 (0.12,	0.925
Apixaban Users	17,216	5,756.82	122.14	0.33	10	1.74	0.58	0.15	7.12)	0.525
Inverse Probability of Treatment Wei	ghted Analysis; l	Jnweighted, Trim	med							
Dabigatran Users	2,417	646.51	97.70	0.27	1	1.55	0.41	-0.20	N/A	N/A
Apixaban Users	17,003	5,722.03	122.92	0.34	10	1.75	0.59	0.20	N/A	NyA
Inverse Probability of Treatment Wei	ghted Analysis <sup>1</sup>	; Weight = ATES, T	Trimmed <sup>2</sup>							
Dabigatran Users	2,100	580.23	100.94	0.28	0	0.84	0.23	-0.85	0.53 (0.07,	N/A
Apixaban Users	16,963	5,716.61	123.09	0.34	10	1.68	0.57	-0.65	4.21)	IN/ A
Intracranial Hemorrhage, Truncation	Weight = 2.5, <i>A</i>	TES Weights, HA	SBLED: 3+							
Site-Adjusted Analysis, Unweighted										
Dabigatran Users	475	121.49	93.42	0.26	1	8.23	2.11	3.09	1.49 (0.19,	0.709
Apixaban Users	5,565	1,556.56	102.16	0.28	8	5.14	1.44	3.03	11.96)	0.703
Inverse Probability of Treatment Wei	ghted Analysis; l	Jnweighted, Trim	med							
Dabigatran Users	458	119.35	95.18	0.26	1	8.38	2.18	4.90	N/A	N/A
Apixaban Users	5,036	1,439.16	104.38	0.29	5	3.47	0.99	7.50	N/A	N/A

cder\_mpl2p\_wp047 Page 205 of 702



Table 5e. Effect Estimates for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, by Analysis Type and HASBLED

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	Hazard Ratio (95% Confidence Interval)	Wald P- Value
Inverse Probability of Treatment Wei	ghted Analysis <sup>1</sup>	: Weight = ATES,	Trimmed <sup>2</sup>							
Dabigatran Users	365	96.74	96.76	0.26	2	16.28	4.31	13.01	4.33 (0.52,	N/A
Apixaban Users	5,026	1,440.13	104.66	0.29	5	3.27	0.94	13.01	36.04)	IN/A

<sup>&</sup>lt;sup>1</sup>All values in this section are weighted.

cder\_mpl2p\_wp047

<sup>&</sup>lt;sup>2</sup>ATES = Average Treatment Effect, Stabilized.



Table 6. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights				Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights				
	Dabigatra	an Users	Apixaba	n Users	Dabigatra	an Users	Apixaban Users		
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	
Members meeting enrollment and demog	raphic requirem	ents							
Enrolled at any point during the query period	246,834,749	N/A	246,834,749	N/A	246,834,749	N/A	246,834,749	N/A	
Had required coverage type (medical and/or drug coverage)	157,517,945	89,316,804	157,517,945	89,316,804	157,517,945	89,316,804	157,517,945	89,316,804	
Enrolled during specified age range	121,561,278	35,956,667	121,561,278	35,956,667	121,561,278	35,956,667	121,561,278	35,956,667	
Had requestable medical charts	121,561,278	0	121,561,278	0	121,561,278	0	121,561,278	0	
Met demographic requirements (sex, race, and Hispanic origin)	121,398,944	162,334	121,398,944	162,334	121,398,944	162,334	121,398,944	162,334	
Members with a valid index event									
Had any cohort-defining claim during the query period	75,760	121,323,184	720,035	120,678,909	75,760	121,323,184	720,035	120,678,909	
Claim recorded during specified age range	58,371	16,927	398,705	310,625	58,371	16,927	398,705	310,625	
Episode defining index claim recorded during the query period	58,355	16	398,500	205	58,355	16	398,500	205	
Members with required pre-index history									
Had sufficient pre-index continuous enrollment	39,161	19,194	277,487	121,013	39,161	19,194	277,487	121,013	
Met inclusion and exclusion criteria <sup>1</sup> Evidence of dialysis Evidence of kidney replacement, deep	20,240 N/A	18,921 32	97,700 N/A	179,787 3,213	20,240 N/A	18,921 32	97,700 N/A	179,787 3,213	
vein thrombosis, pulmonary embolism, joint replacement, mitral valve disease, valve replacement, or valve repair	N/A	6,978	N/A	117,693	N/A	6,978	N/A	117,693	

cder\_mpl2p\_wp047 Page 207 of 702



Table 6. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights				Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights					
	Dabigatra	an Users	Apixaba	n Users	Dabigatra	n Users	Apixaban Users			
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded		
Evidence of low-dose rivaroxaban or										
dabigatran, any dose of apixaban, edoxaban, or warfarin	N/A	12,758	N/A	39,846	N/A	12,758	N/A	39,846		
Evidence of index exposure	N/A	179	N/A	13,469	N/A	179	N/A	13,469		
Evidence of institutional stay encounter	N/A	123	N/A	3,300	N/A	123	N/A	3,300		
No evidence of atrial fibrillation or flutter	N/A	8,273	N/A	144,917	N/A	8,273	N/A	144,917		
Met event incidence criteria	20,240	0	97,700	0	20,240	0	97,700	0		
Members with required post-index follow-up										
Had sufficient post-index continuous enrollment	20,237	3	97,573	127	20,237	3	97,573	127		
Had minimum days' supply on index date	20,237	0	97,573	0	20,237	0	97,573	0		
Had index episode of at least required length	20,237	0	97,573	0	20,237	0	97,573	0		
Had index episode longer than blackout period	20,223	14	97,453	120	20,221	16	97,440	133		
Did not have an event during blackout period	20,221	2	97,440	13	20,221	0	97,440	0		
Final cohort										
Number of members	20,221	N/A	97,440	N/A	20,221	N/A	97,440	N/A		
Number of episodes	20,221	N/A	97,440	N/A	20,221	N/A	97,440	N/A		
Members meeting comparative cohort elig	gibility requirem	ents								
Excluded due to same-day initition of both exposure groups	20,224	0	97,566	0	20,224	0	97,566	0		
Excluded due to prior initiation of other exposure group	20,163	61	96,668	898	20,163	61	96,668	898		

cder\_mpl2p\_wp047



Table 6. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Thromboem	bolic Stroke, Tr	uncation Weight ghts	= 1%, ATES	Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights					
	Dabigatran Users		Apixaban Users		Dabigatra	an Users	Apixaban Users			
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded		
Excluded due to propensity score trimming	20,159	4	96,200	468	20,159	4	96,200	468		
Included in comparative analysis	20,159	0	96,200	0	20,159	0	96,200	0		
Additional information										
Number of events in comparative analysis	32	N/A	130	N/A	36	N/A	215	N/A		
Number of patients with a truncated inverse probability of treatment weight	1,590	N/A	70	N/A	329	N/A	18	N/A		

<sup>&</sup>lt;sup>1</sup>Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

cder\_mpl2p\_wp047



Table 6. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Gastrointest	_	e, Truncation Weig	ght = 1%, ATES	Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights				
	Dabigatr	an Users	Apixaba	ın Users	Dabigatra	an Users	Apixaban Users		
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	
Members meeting enrollment and demog	raphic requirem	ents							
Enrolled at any point during the query period	246,834,749	N/A	246,834,749	N/A	246,834,749	N/A	246,834,749	N/A	
Had required coverage type (medical and/or drug coverage)	157,517,945	89,316,804	157,517,945	89,316,804	157,517,945	89,316,804	157,517,945	89,316,804	
Enrolled during specified age range	121,561,278	35,956,667	121,561,278	35,956,667	121,561,278	35,956,667	121,561,278	35,956,667	
Had requestable medical charts	121,561,278	0	121,561,278	0	121,561,278	0	121,561,278	0	
Met demographic requirements (sex, race, and Hispanic origin)	121,398,944	162,334	121,398,944	162,334	121,398,944	162,334	121,398,944	162,334	
Members with a valid index event									
Had any cohort-defining claim during the query period	75,760	121,323,184	720,035	120,678,909	75,760	121,323,184	720,035	120,678,909	
Claim recorded during specified age range	58,371	16,927	398,705	310,625	58,371	16,927	398,705	310,625	
Episode defining index claim recorded during the query period	58,355	16	398,500	205	58,355	16	398,500	205	
Members with required pre-index history									
Had sufficient pre-index continuous enrollment	39,161	19,194	277,487	121,013	39,161	19,194	277,487	121,013	
Met inclusion and exclusion criteria <sup>1</sup>	20,240	18,921	97,700	179,787	20,240	18,921	97,700	179,787	
Evidence of dialysis	N/A	32	N/A	3,213	N/A	32	N/A	3,213	
Evidence of kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral valve disease, valve repair	N/A	6,978	N/A	117,693	N/A	6,978	N/A	117,693	

cder\_mpl2p\_wp047 Page 210 of 702



Table 6. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Gastrointest	_	e, Truncation Weig eights	Intracranial H	Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights				
	Dabigatra	an Users	Apixaba	in Users	Dabigatra	n Users	Apixaban Users		
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	
Evidence of low-dose rivaroxaban or									
dabigatran, any dose of apixaban, edoxaban, or warfarin	N/A	12,758	N/A	39,846	N/A	12,758	N/A	39,846	
Evidence of index exposure	N/A	179	N/A	13,469	N/A	179	N/A	13,469	
Evidence of institutional stay encounter	N/A	123	N/A	3,300	N/A	123	N/A	3,300	
No evidence of atrial fibrillation or flutter	N/A	8,273	N/A	144,917	N/A	8,273	N/A	144,917	
Met event incidence criteria	20,240	0	97,700	0	20,240	0	97,700	0	
Members with required post-index follow-	-up								
Had sufficient post-index continuous enrollment	20,237	3	97,573	127	20,237	3	97,573	127	
Had minimum days' supply on index date	20,237	0	97,573	0	20,237	0	97,573	0	
Had index episode of at least required length	20,237	0	97,573	0	20,237	0	97,573	0	
Had index episode longer than blackout period	20,221	16	97,440	133	20,221	16	97,440	133	
Did not have an event during blackout period	20,221	0	97,440	0	20,221	0	97,440	0	
Final cohort									
Number of members	20,221	N/A	97,440	N/A	20,221	N/A	97,440	N/A	
Number of episodes	20,221	N/A	97,440	N/A	20,221	N/A	97,440	N/A	
Members meeting comparative cohort elig	gibility requirem	ents							
Excluded due to same-day initition of both exposure groups	20,224	0	97,566	0	20,224	0	97,566	0	
Excluded due to prior initiation of other exposure group	20,163	61	96,668	898	20,163	61	96,668	898	

cder\_mpl2p\_wp047 Page 211 of 702



Table 6. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

	Gastrointest	_	e, Truncation Weig	ght = 1%, ATES	Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights				
	Dabigatran Users		Apixaban Users		Dabigatra	n Users	Apixaban Users		
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	
Excluded due to propensity score trimming	20,159	4	96,200	468	20,159	4	96,200	468	
Included in comparative analysis	20,159	0	96,200	0	20,159	0	96,200	0	
Additional information									
Number of events in comparative analysis	32	N/A	181	N/A	8	N/A	38	N/A	
Number of patients with a truncated inverse probability of treatment weight	48	N/A	1	N/A	370	N/A	16	N/A	

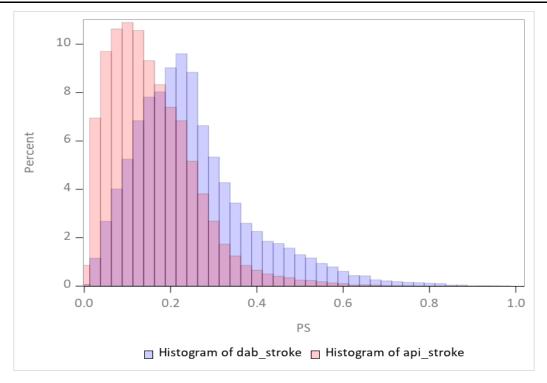
<sup>&</sup>lt;sup>1</sup>Patients can meet multiple inclusion and/or exclusion criteria; therefore, the total number of patients excluded overall may not equal the sum of all patients in each criterion.

cder\_mpl2p\_wp047 Page 212 of 702



Figure 1a. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

Unweighted Propensity Score Distribution Before Trimming

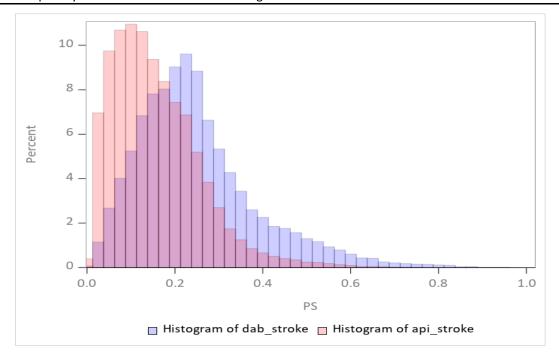


cder\_mpl2p\_wp047 Page 213 of 702



Figure 1a. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

## Unweighted Propensity Score Distribution After Trimming

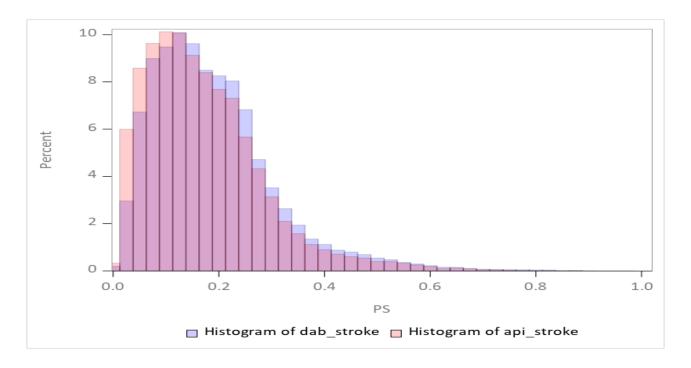


cder\_mpl2p\_wp047 Page 214 of 702



Figure 1a. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

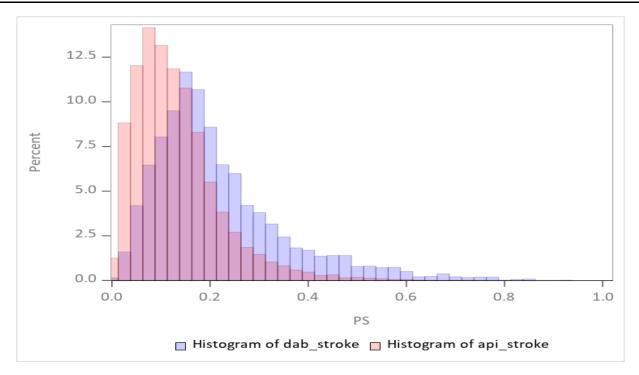
Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES)



cder\_mpl2p\_wp047 Page 215 of 702



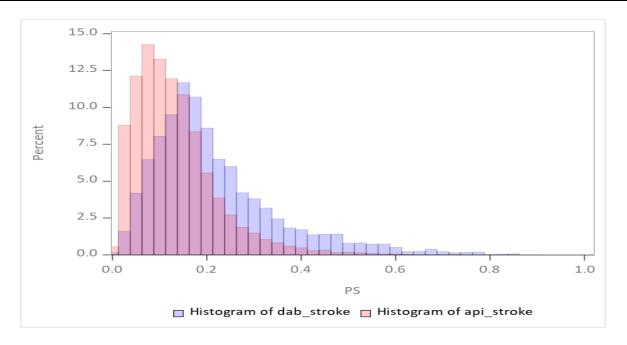
Figure 1b. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female



cder\_mpl2p\_wp047 Page 216 of 702



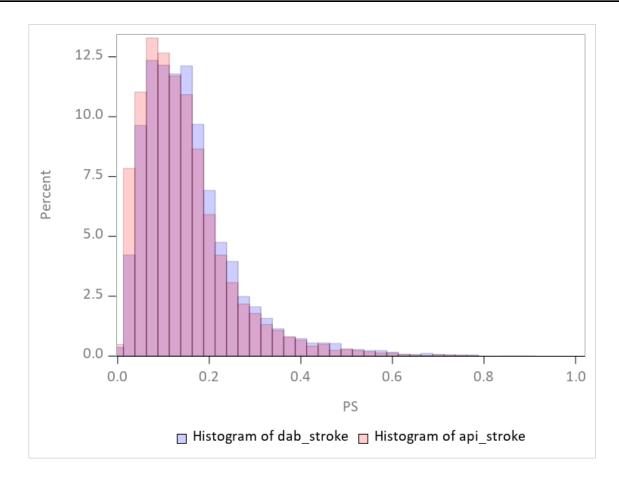
Figure 1b. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female



cder\_mpl2p\_wp047 Page 217 of 702



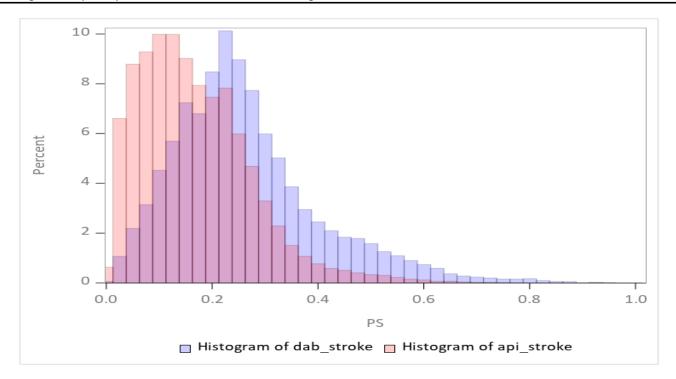
Figure 1b. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Female



cder\_mpl2p\_wp047 Page 218 of 702



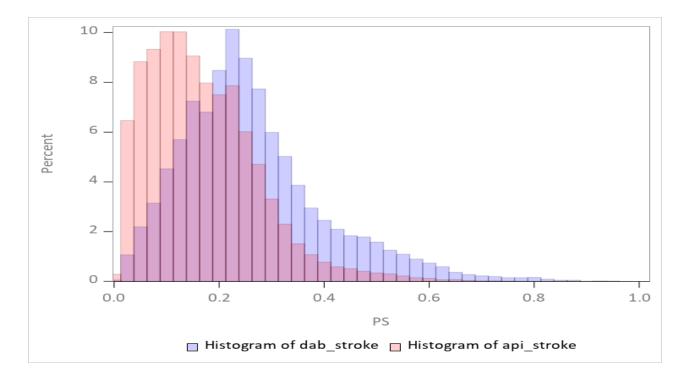
Figure 1c. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male



cder\_mpl2p\_wp047 Page 219 of 702



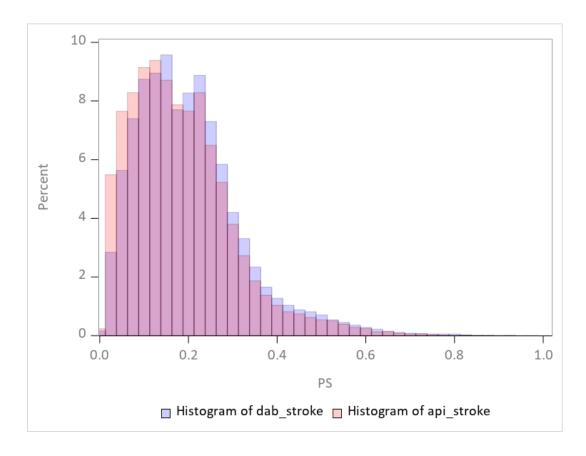
Figure 1c. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male



cder\_mpl2p\_wp047 Page 220 of 702



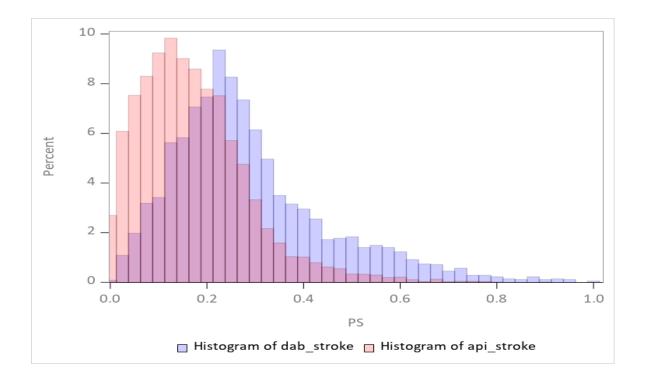
Figure 1c. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Sex: Male



cder\_mpl2p\_wp047 Page 221 of 702



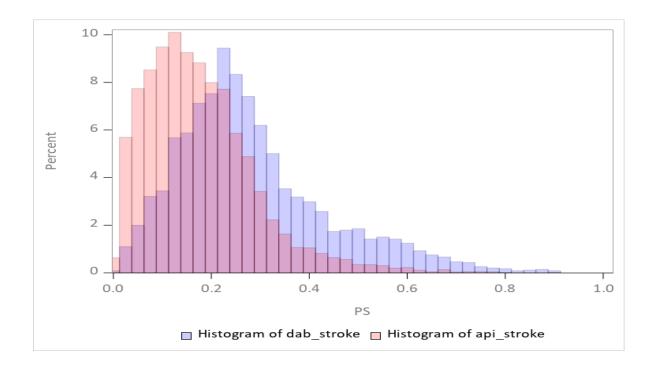
Figure 1d. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years



cder\_mpl2p\_wp047 Page 222 of 702



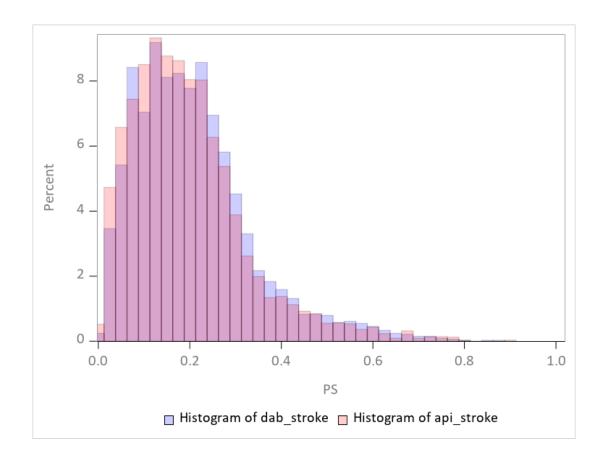
Figure 1d. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years



cder\_mpl2p\_wp047 Page 223 of 702



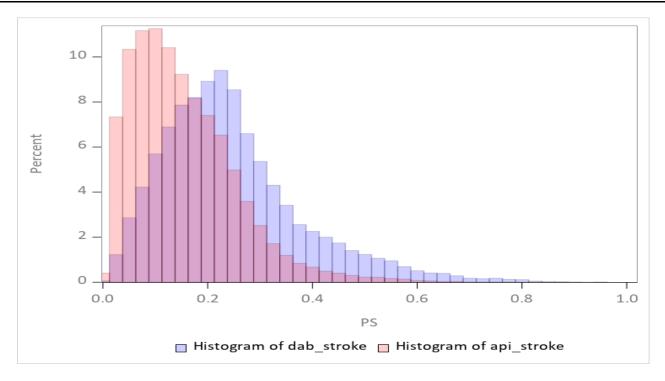
Figure 1d. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 21-49 years



cder\_mpl2p\_wp047 Page 224 of 702



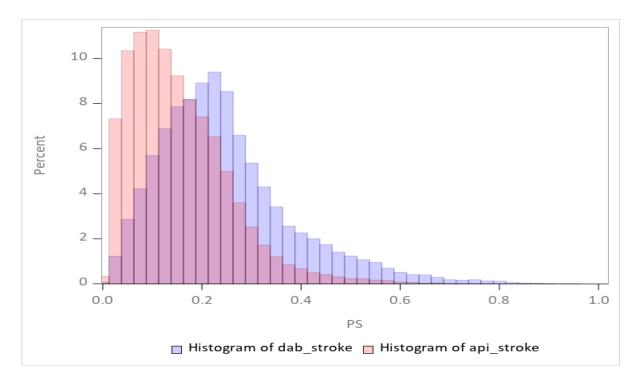
Figure 1e. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years



cder\_mpl2p\_wp047 Page 225 of 702



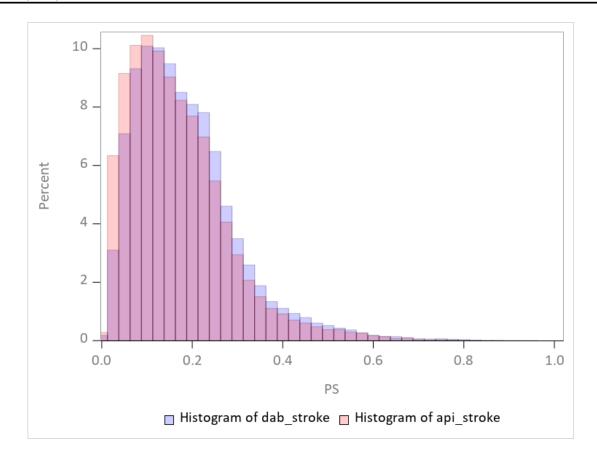
Figure 1e. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years



cder\_mpl2p\_wp047 Page 226 of 702



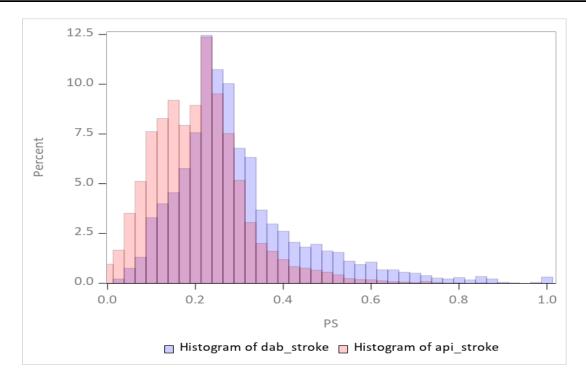
Figure 1e. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 1%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, Age Group: 50-64 years



cder\_mpl2p\_wp047 Page 227 of 702



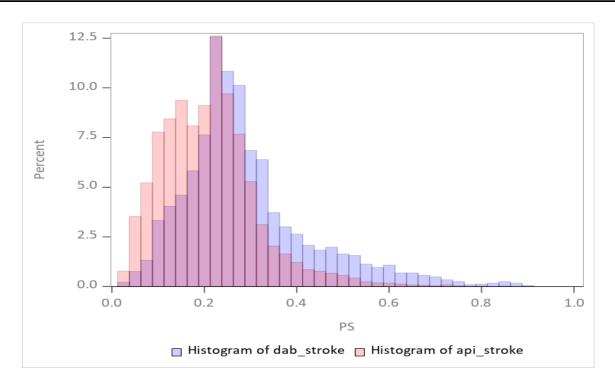
Figure 1f. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0



cder\_mpl2p\_wp047 Page 228 of 702



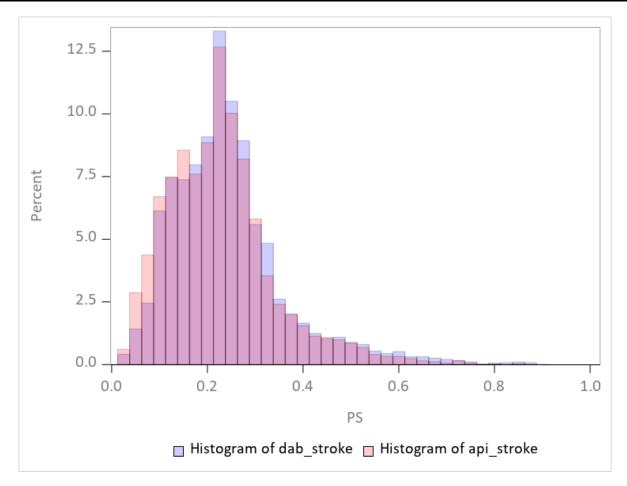
Figure 1f. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0



cder\_mpl2p\_wp047 Page 229 of 702



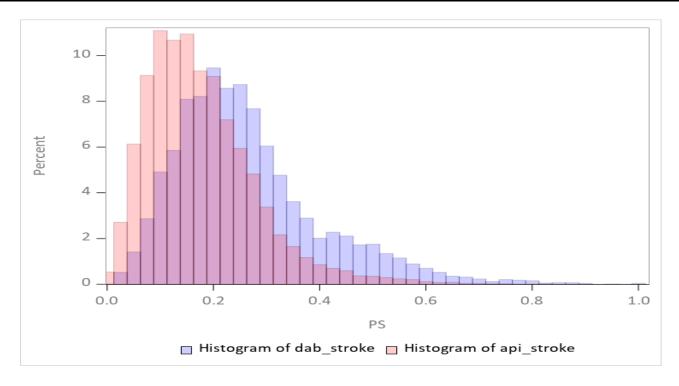
Figure 1f. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 0



cder\_mpl2p\_wp047 Page 230 of 702



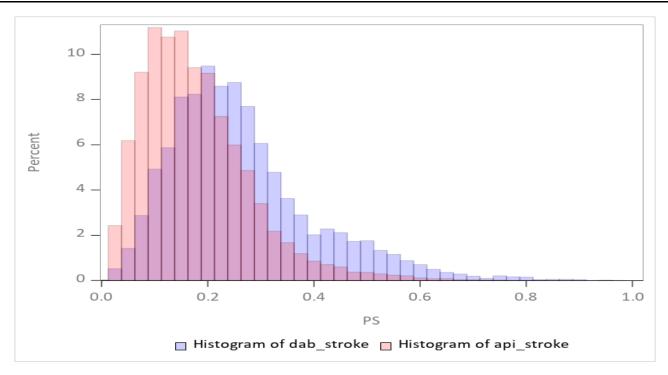
Figure 1g. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1



cder\_mpl2p\_wp047 Page 231 of 702



Figure 1g. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1

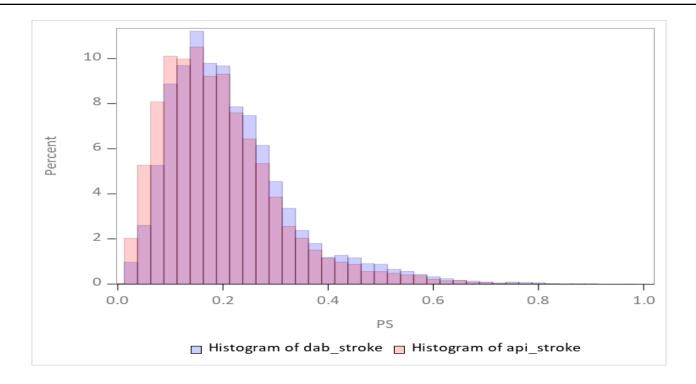


Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES)

cder\_mpl2p\_wp047 Page 232 of 702



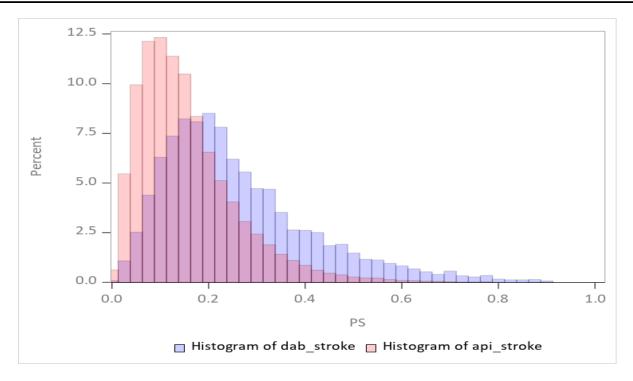
Figure 1g. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 1



cder\_mpl2p\_wp047 Page 233 of 702



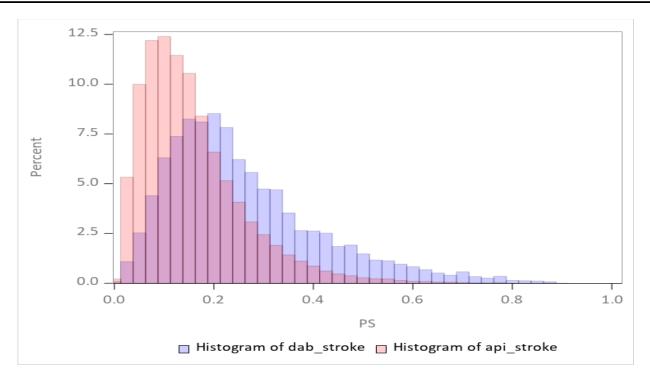
Figure 1h. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2



cder\_mpl2p\_wp047 Page 234 of 702



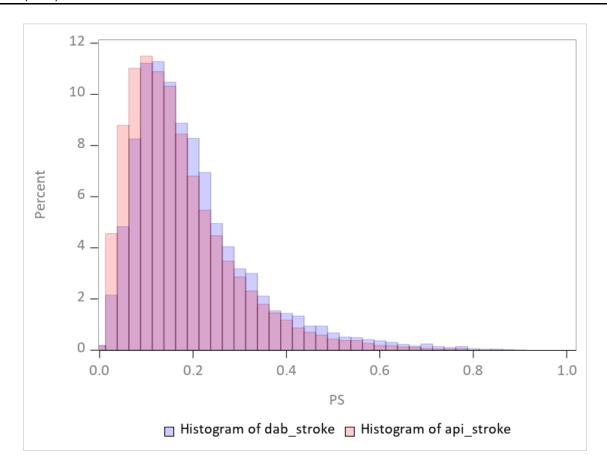
Figure 1h. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2



cder\_mpl2p\_wp047 Page 235 of 702



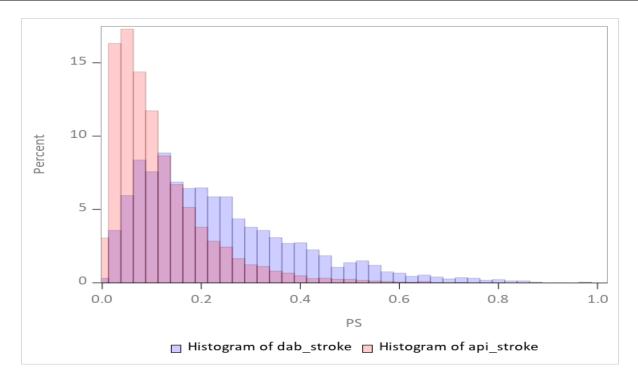
Figure 1h. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 2



cder\_mpl2p\_wp047 Page 236 of 702



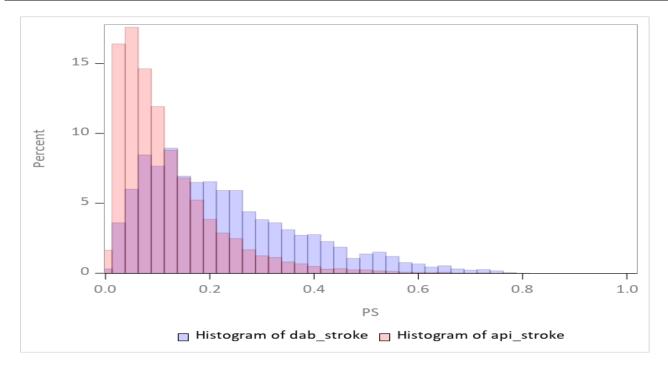
Figure 1i. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3



cder\_mpl2p\_wp047 Page 237 of 702



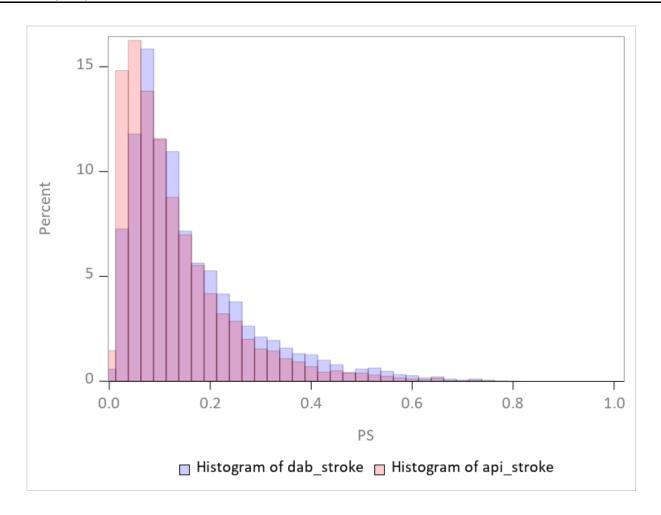
Figure 1i. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3



cder\_mpl2p\_wp047 Page 238 of 702



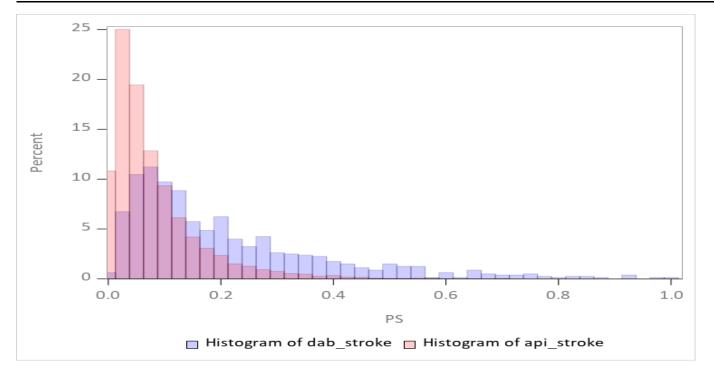
Figure 1i. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 3



cder\_mpl2p\_wp047 Page 239 of 702



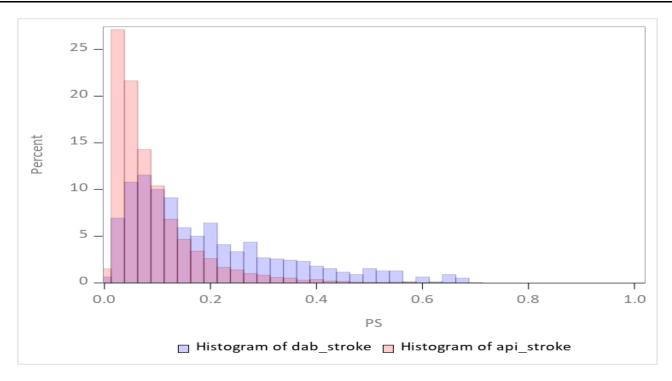
Figure 1j. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4



cder\_mpl2p\_wp047 Page 240 of 702



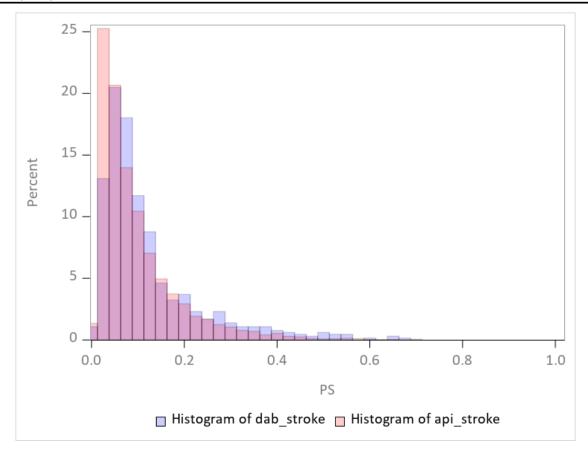
Figure 1j. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4



cder\_mpl2p\_wp047 Page 241 of 702



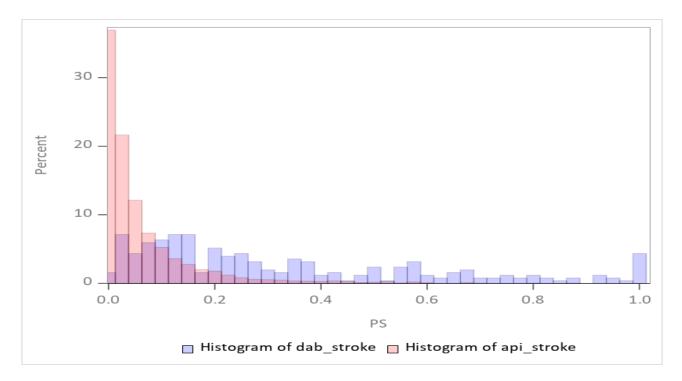
Figure 1j. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 4



cder\_mpl2p\_wp047 Page 242 of 702



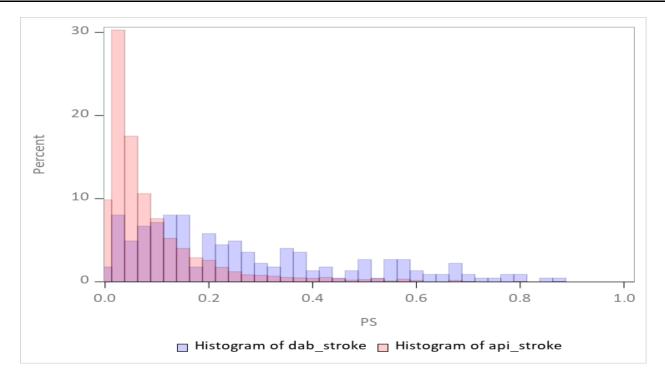
Figure 1k. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+



cder\_mpl2p\_wp047 Page 243 of 702



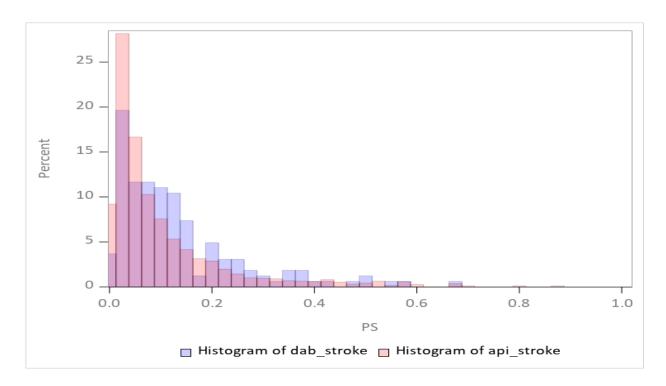
Figure 1k. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+



cder\_mpl2p\_wp047 Page 244 of 702



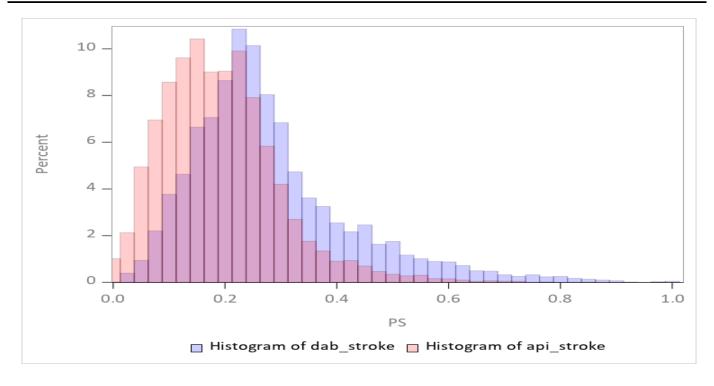
Figure 1k. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, CHADVASC: 5+



cder\_mpl2p\_wp047 Page 245 of 702



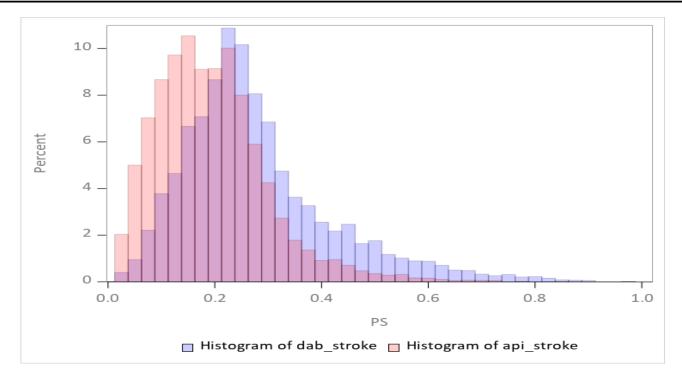
Figure 1l. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0



cder\_mpl2p\_wp047 Page 246 of 702



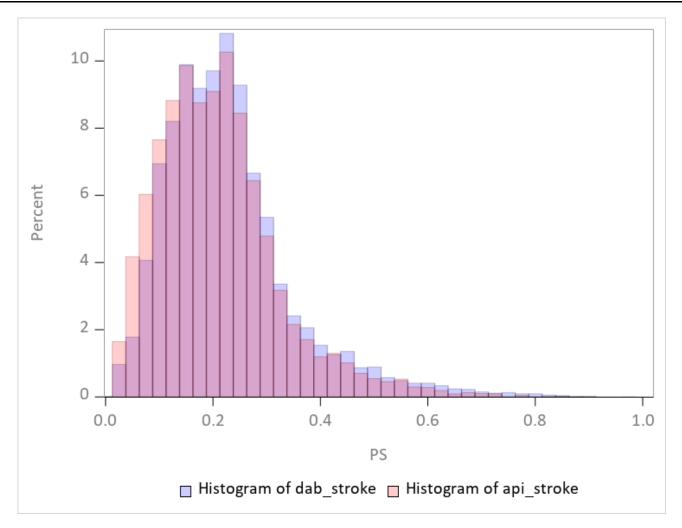
Figure 1l. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0



cder\_mpl2p\_wp047 Page 247 of 702



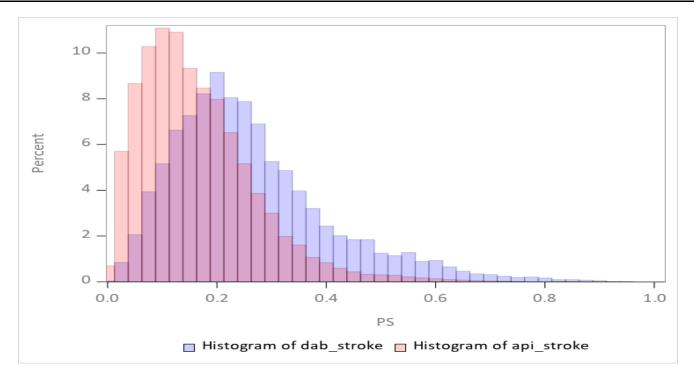
Figure 1l. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 0



cder\_mpl2p\_wp047 Page 248 of 702



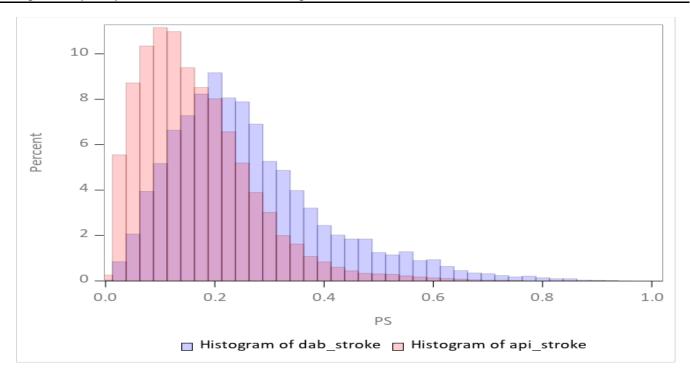
Figure 1m. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1



cder\_mpl2p\_wp047 Page 249 of 702



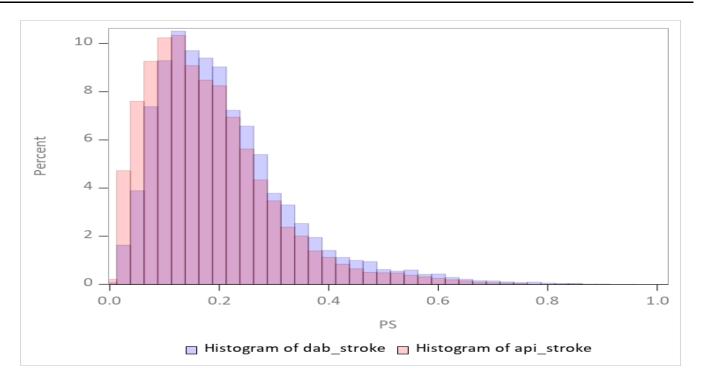
Figure 1m. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1



cder\_mpl2p\_wp047 Page 250 of 702



Figure 1m. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 1

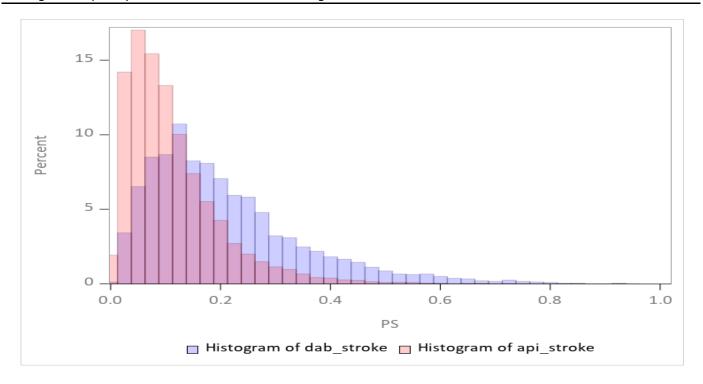


cder\_mpl2p\_wp047 Page 251 of 702



Figure 1n. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

Unweighted Propensity Score Distribution Before Trimming

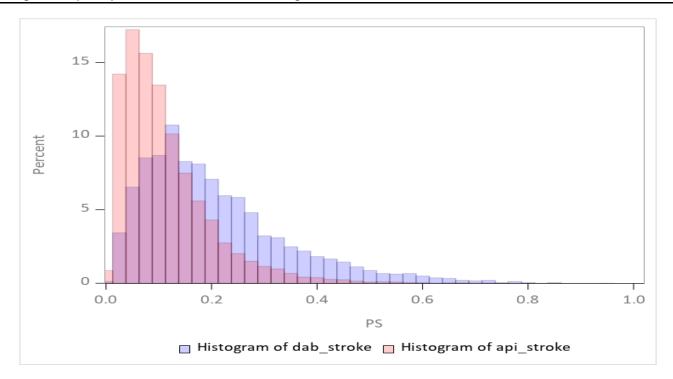


cder\_mpl2p\_wp047 Page 252 of 702



Figure 1n. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

## Unweighted Propensity Score Distribution After Trimming

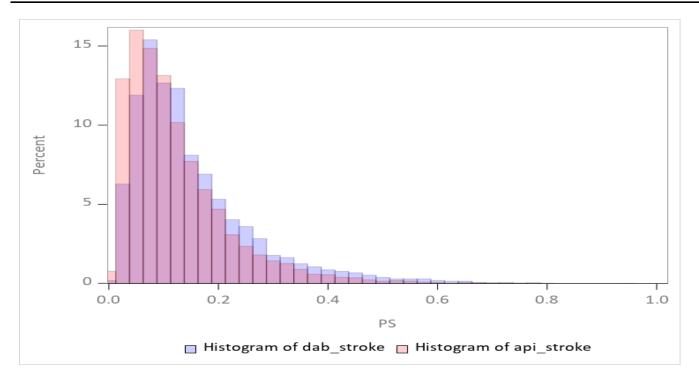


cder\_mpl2p\_wp047 Page 253 of 702



Figure 1n. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 2

Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES)

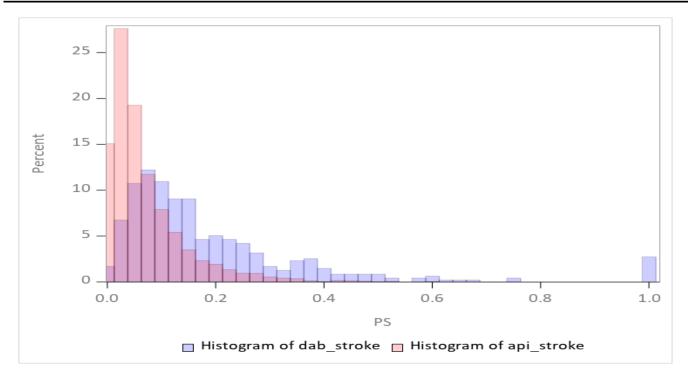


cder\_mpl2p\_wp047 Page 254 of 702



Figure 1o. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

Unweighted Propensity Score Distribution Before Trimming

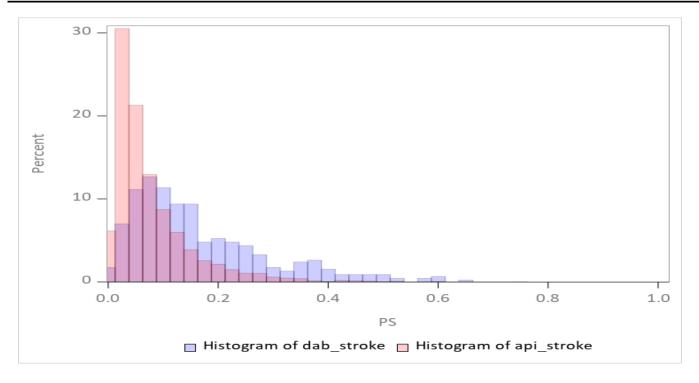


cder\_mpl2p\_wp047 Page 255 of 702



Figure 1o. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

Unweighted Propensity Score Distribution After Trimming

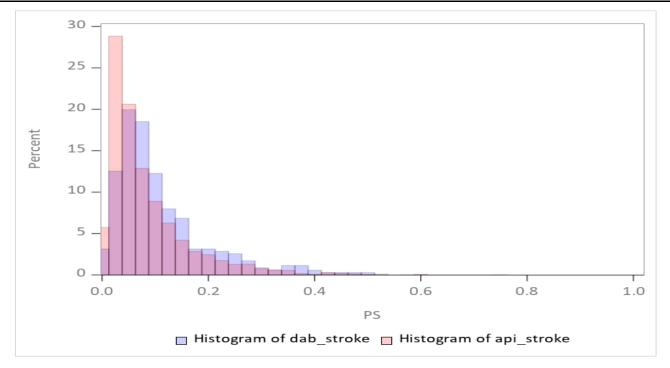


cder\_mpl2p\_wp047 Page 256 of 702



Figure 1o. Histograms Depicting Propensity Score Distributions Before and After Adjustment, Truncation Weight = 2.5%, ATES Weights in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022, HASBLED: 3+

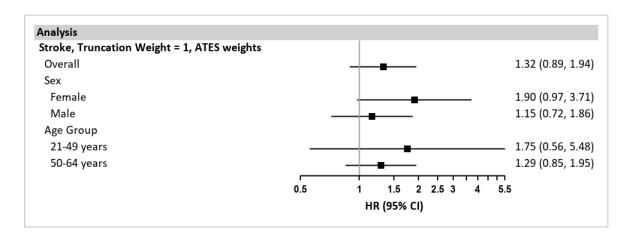
Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES)



cder\_mpl2p\_wp047 Page 257 of 702



Figure 2a. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

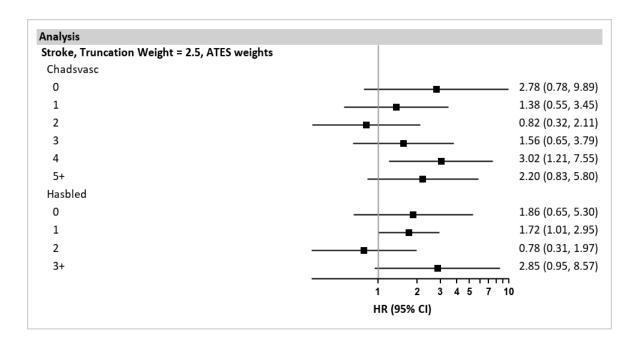


Weighted using Average Treatment Effect, Stabilized, (ATES)

cder\_mpl2p\_wp047 Page 258 of 702



Figure 2b. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

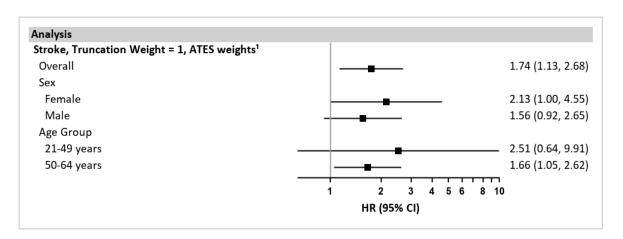


Weighted using Average Treatment Effect, Stabilized, (ATES)

cder\_mpl2p\_wp047 Page 259 of 702



Figure 2c. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 1%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

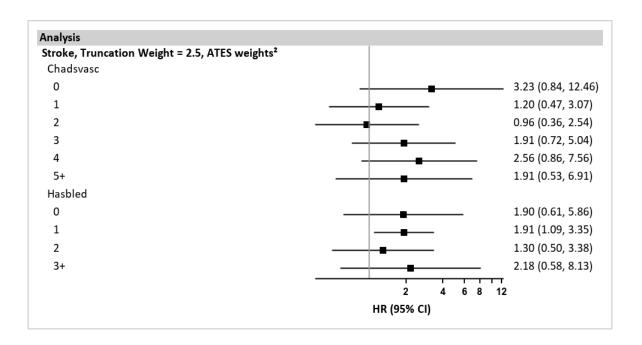


Weighted using Average Treatment Effect, Stabilized, (ATES).

cder\_mpl2p\_wp047 Page 260 of 702



Figure 2d. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Thromboembolic Stroke, Truncation Weight = 2.5%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

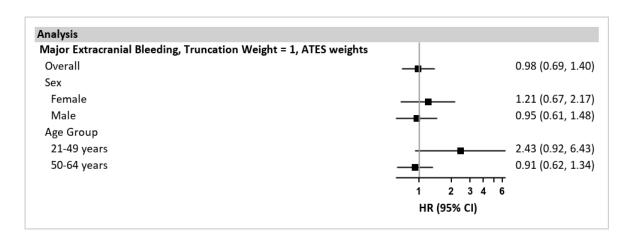


Weighted using Average Treatment Effect, Stabilized, (ATES).

cder\_mpl2p\_wp047 Page 261 of 702



Figure 2e. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

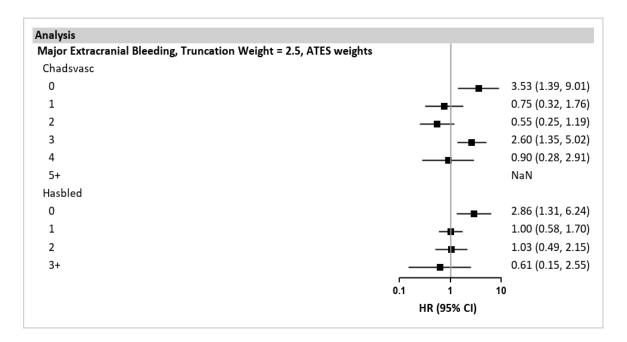


Weighted using Average Treatment Effect, Stabilized, (ATES)

cder\_mpl2p\_wp047 Page 262 of 702



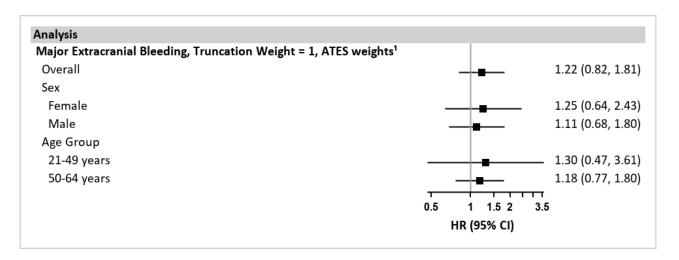
Figure 2f. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 263 of 702



Figure 2g. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 1%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

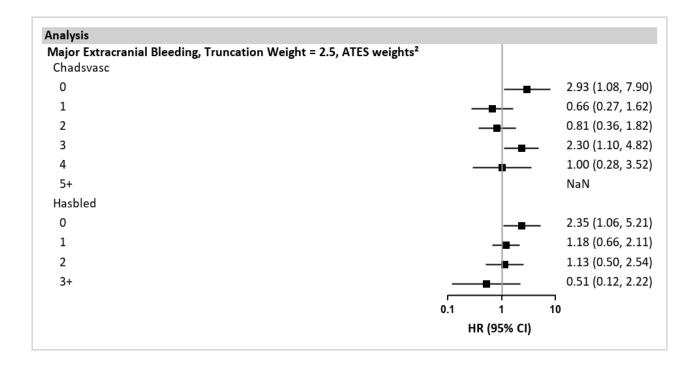


Weighted using Average Treatment Effect, Stabilized, (ATES).

cder\_mpl2p\_wp047 Page 264 of 702



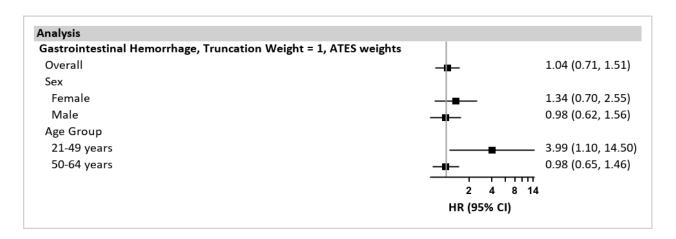
Figure 2h. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Major Extracranial Bleeding, Truncation Weight = 2.5%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 265 of 702



Figure 2i. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

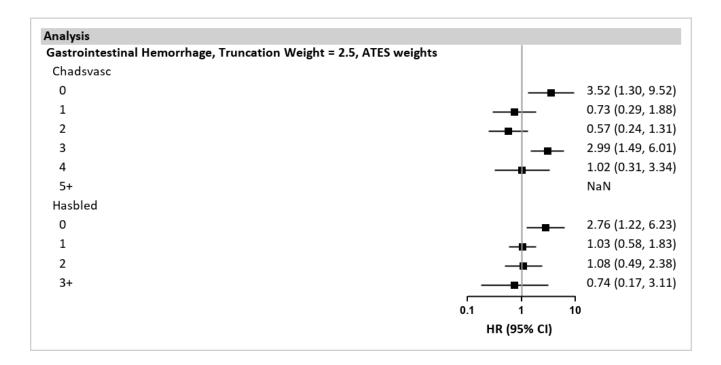


Weighted using Average Treatment Effect, Stabilized, (ATES)

cder\_mpl2p\_wp047 Page 266 of 702



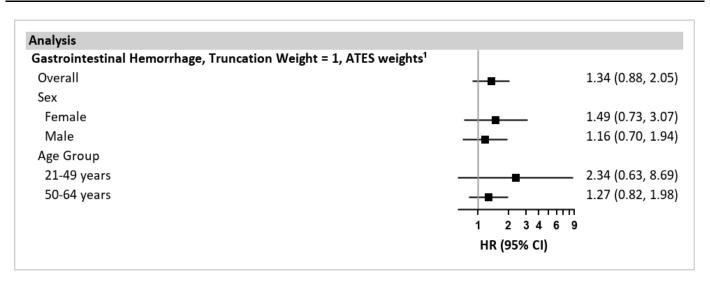
Figure 2j. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 267 of 702



Figure 2k. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 1%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

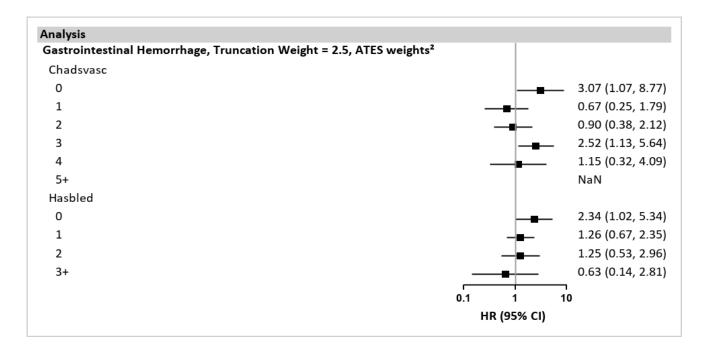


Weighted using Average Treatment Effect, Stabilized, (ATES).

cder\_mpl2p\_wp047 Page 268 of 702



Figure 2I. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Gastrointestinal Hemorrhage, Truncation Weight = 2.5%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022

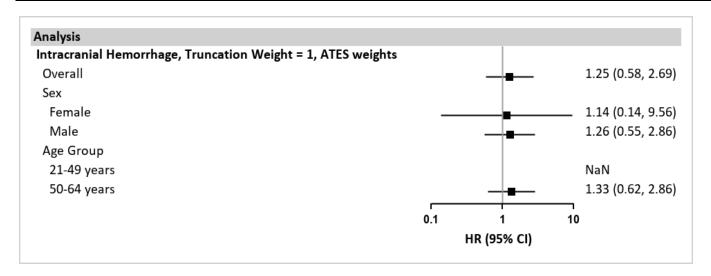


Weighted using Average Treatment Effect, Stabilized, (ATES).

cder\_mpl2p\_wp047 Page 269 of 702



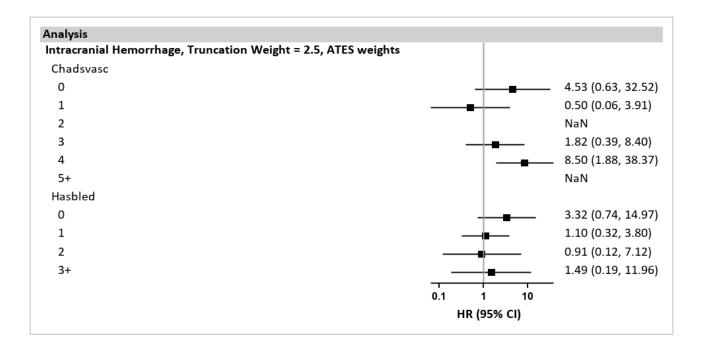
Figure 2m. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 270 of 702



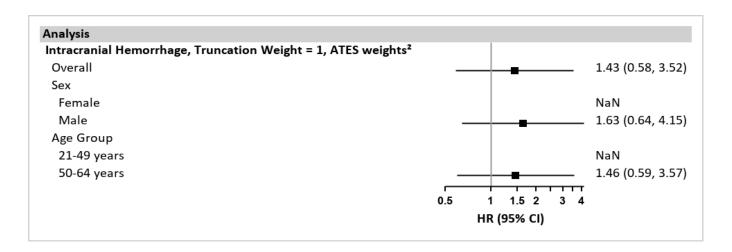
Figure 2n. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights, Site-Adjusted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 271 of 702



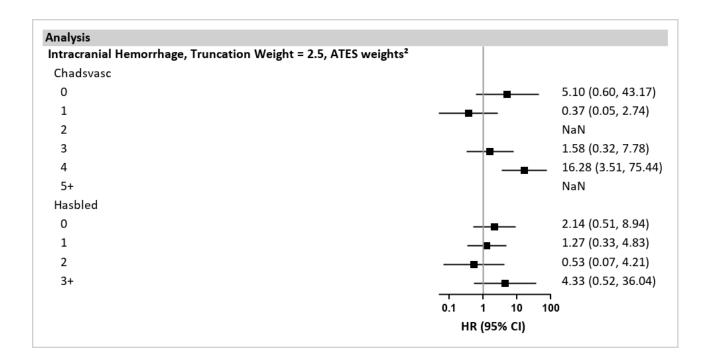
Figure 20. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 1%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 272 of 702



Figure 2p. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Intracranial Hemorrhage, Truncation Weight = 2.5%, ATES Weights, Inverse Probability of Treatment Weighted Analyses in the Sentinel Distributed Database from October 19, 2010 to February 28, 2022



cder\_mpl2p\_wp047 Page 273 of 702



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (July 7, 2023)

Masked DP ID	DP Start Date	DP End Date <sup>1</sup>
DP01	01/01/2008	02/28/2022
DP02	01/01/2000	12/31/2020
DP03	01/01/2007	02/28/2022
DP04	01/01/2006	02/28/2022
DP05	01/01/2008	02/28/2022

<sup>&</sup>lt;sup>1</sup>End Date represents the earliest of: (1) query end date, or (2) last day of the most recent month for which all of a Data Partner's data tables (enrollment, dispensing, etc.) have at least 80% of the record count relative to the prior month.

cder\_mpl2p\_wp047



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

Generic Name	Brand Name	
	Dabigatran	
dabigatran	Pradaxa	
dabigatran	dabigatran etexilate mesylate	
	Apixaban	
apixaban	Eliquis	
apixaban	Eliquis DVT-PE Treat 30D Start	

cder\_mpl2p\_wp047 Page 275 of 702



Code	Description	Code Type	Code Category
	Dialysis		
792.5	Cloudy (hemodialysis) (peritoneal) dialysis affluent	DX	ICD-9-CM
V45.1	Renal dialysis status	DX	ICD-9-CM
V45.11	Renal dialysis status	DX	ICD-9-CM
V45.12	Noncompliance with renal dialysis	DX	ICD-9-CM
V56.0	Encounter for extracorporeal dialysis	DX	ICD-9-CM
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	DX	ICD-9-CM
V56.2	Fitting and adjustment of peritoneal dialysis catheter	DX	ICD-9-CM
V56.3	Encounter for adequacy testing for dialysis	DX	ICD-9-CM
V56.31	Encounter for adequacy testing for hemodialysis	DX	ICD-9-CM
V56.32	Encounter for adequacy testing for peritoneal dialysis	DX	ICD-9-CM
V56.8	Encounter other dialysis	DX	ICD-9-CM
R88.0	Cloudy (hemodialysis) (peritoneal) dialysis effluent	DX	ICD-10-CM
Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter	DX	ICD-10-CM
Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter	DX	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	DX	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	DX	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	DX	ICD-10-CM
Z99.2	Dependence on renal dialysis	DX	ICD-10-CM
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	PX	CPT-4
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	PX	CPT-4
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator dilution method, hook-up; transcutaneous measurement and disconnection	PX	CPT-4
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	PX	CPT-4
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional	PX	CPT-4
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial revision of dialysis prescription	PX	CPT-4
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4

cder\_mpl2p\_wp047 Page 276 of 702



tilla Kequ			
Code	Description	Code Type	Code Category
90952	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	PX	CPT-4
90954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	PX	CPT-4
90957	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90958	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90959	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	PX	CPT-4
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4
90962	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 1 face-to-face visit by a physician or other qualified health care professional per month	PX	CPT-4

cder\_mpl2p\_wp047 Page 277 of 702



Code	Description	Code Type	Code Category
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for	PX	CPT-4
	patients younger than 2 years of age to include monitoring for the adequacy of		
	nutrition, assessment of growth and development, and counseling of parents		
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for	PX	CPT-4
	patients 2-11 years of age to include monitoring for the adequacy of nutrition,		
	assessment of growth and development, and counseling of parents		
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for	PX	CPT-4
	patients 12-19 years of age to include monitoring for the adequacy of nutrition,		
	assessment of growth and development, and counseling of parents		
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for	PX	CPT-4
	patients 20 years of age and older		
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of	PX	CPT-4
	service, per day; for patients younger than 2 years of age		
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of	PX	CPT-4
	service, per day; for patients 2-11 years of age		
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of	PX	CPT-4
	service, per day; for patients 12-19 years of age		
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of	PX	CPT-4
00076	service, per day; for patients 20 years of age and older	51/	CDT 4
90976	Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX	CPT-4
90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX	CPT-4
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX	CPT-4
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX	CPT-4
90982 90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX PX	CPT-4 CPT-4
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd), Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX	CPT-4 CPT-4
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),  Peritoneal Dialysis For End-stage Renal Disease (esrd),	PX	CPT-4 CPT-4
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On	PX	CPT-4 CPT-4
90900	Monthly Basis	PA	CP1-4
90989	Dialysis training, patient, including helper where applicable, any mode, completed	PX	CPT-4
90990	Hemodialysis Training And/or Counseling	PX	CPT-4
90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The	PX	CPT-4
	Physician Primarily Responsible		
90992	Peritoneal Dialysis Training And/or Counseling	PX	CPT-4
90993	Dialysis training, patient, including helper where applicable, any mode, course not	PX	CPT-4
	completed, per training session		
90994	Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient	PX	CPT-4
	(monthly)		
90995	End Stage Renal Disease (esrd) Related Services, Per Full Month	PX	CPT-4
90996	Continuous Arteriovenous Hemofiltration (cavh) (per Day)	PX	CPT-4
90997	Hemoperfusion (eg, with activated charcoal or resin)	PX	CPT-4
90998	End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day	PX	CPT-4
90999	Unlisted dialysis procedure, inpatient or outpatient	PX	CPT-4

cder\_mpl2p\_wp047 Page 278 of 702



Code	Description	Code Type	<b>Code Category</b>
	Kidney replacement		
556	Transplant of kidney	PX	ICD-9-CM
5561	Renal autotransplantation	PX	ICD-9-CM
5569	Other kidney transplantation	PX	ICD-9-CM
99681	Complications of transplanted kidney	DX	ICD-9-CM
V420	Kidney replaced by transplant	DX	ICD-9-CM
T86.10	Unspecified complication of kidney transplant	DX	ICD-10-CM
T86.11	Kidney transplant rejection	DX	ICD-10-CM
T86.12	Kidney transplant failure	DX	ICD-10-CM
T86.13	Kidney transplant infection	DX	ICD-10-CM
T86.19	Other complication of kidney transplant	DX	ICD-10-CM
Z48.22	Encounter for aftercare following kidney transplant	DX	ICD-10-CM
Z94.0	Kidney transplant status	DX	ICD-10-CM
OTS00ZZ	Reposition Right Kidney, Open Approach	PX	ICD-10-PCS
OTS10ZZ	Reposition Left Kidney, Open Approach	PX	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	PX	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	PX	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	PX	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	PX	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	PX	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	PX	ICD-10-PCS
	Ischemic Stroke		
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	DX	ICD-9-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	DX	ICD-9-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	DX	ICD-9-CM
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	DX	ICD-9-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	DX	ICD-9-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	DX	ICD-9-CM
434.01	Cerebral thrombosis with cerebral infarction	DX	ICD-9-CM
434.11	Cerebral embolism with cerebral infarction	DX	ICD-9-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	DX	ICD-9-CM
436	Acute, but ill-defined, cerebrovascular disease	DX	ICD-9-CM
163.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries	DX	ICD-10-CM
163.139	Cerebral infarction due to embolism of unspecified carotid artery	DX	ICD-10-CM
163.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	DX	ICD-10-CM
163.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	DX	ICD-10-CM
163.119	Cerebral infarction due to embolism of unspecified vertebral artery	DX	ICD-10-CM
163.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries	DX	ICD-10-CM
163.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 279 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
163.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral	DX	ICD-10-CM
	arteries		
163.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	DX	ICD-10-CM
163.40	Cerebral infarction due to embolism of unspecified cerebral artery	DX	ICD-10-CM
163.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral	DX	ICD-10-CM
167.89	Other cerebrovascular disease	DX	ICD-10-CM
163.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	DX	ICD-10-CM
163.011	Cerebral infarction due to thrombosis of right vertebral artery	DX	ICD-10-CM
163.012	Cerebral infarction due to thrombosis of left vertebral artery	DX	ICD-10-CM
163.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	DX	ICD-10-CM
163.02	Cerebral infarction due to thrombosis of basilar artery	DX	ICD-10-CM
163.031	Cerebral infarction due to thrombosis of right carotid artery	DX	ICD-10-CM
163.032	Cerebral infarction due to thrombosis of left carotid artery	DX	ICD-10-CM
163.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	DX	ICD-10-CM
163.039	Cerebral infarction due to thrombosis of unspecified carotid artery	DX	ICD-10-CM
163.09	Cerebral infarction due to thrombosis of other precerebral artery	DX	ICD-10-CM
163.10	Cerebral infarction due to embolism of unspecified precerebral artery	DX	ICD-10-CM
163.111	Cerebral infarction due to embolism of right vertebral artery	DX	ICD-10-CM
163.112	Cerebral infarction due to embolism of left vertebral artery	DX	ICD-10-CM
163.113	Cerebral infarction due to embolism of bilateral vertebral arteries	DX	ICD-10-CM
163.12	Cerebral infarction due to embolism of basilar artery	DX	ICD-10-CM
163.131	Cerebral infarction due to embolism of right carotid artery	DX	ICD-10-CM
163.132	Cerebral infarction due to embolism of left carotid artery	DX	ICD-10-CM
163.133	Cerebral infarction due to embolism of bilateral carotid arteries	DX	ICD-10-CM
163.19	Cerebral infarction due to embolism of other precerebral artery	DX	ICD-10-CM
163.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries	DX	ICD-10-CM
163.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries	DX	ICD-10-CM
163.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral	DX	ICD-10-CM
163.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	DX	ICD-10-CM
163.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	DX	ICD-10-CM
163.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	DX	ICD-10-CM
163.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral	DX	ICD-10-CM
163.311	Cerebral infarction due to thrombosis of right middle cerebral artery	DX	ICD-10-CM
163.312	Cerebral infarction due to thrombosis of left middle cerebral artery	DX	ICD-10-CM
163.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	DX	ICD-10-CM
163.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	DX	ICD-10-CM
163.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	DX	ICD-10-CM
163.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	DX	ICD-10-CM
163.323	Cerebral infarction due to thrombosis of bilateral anterior arteries	DX	ICD-10-CM
163.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	DX	ICD-10-CM
163.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	DX	ICD-10-CM
163.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	DX	ICD-10-CM
163.333	Cerebral infarction to thrombosis of bilateral posterior arteries	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 280 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
163.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	DX	ICD-10-CM
163.341	Cerebral infarction due to thrombosis of right cerebellar artery	DX	ICD-10-CM
163.342	Cerebral infarction due to thrombosis of left cerebellar artery	DX	ICD-10-CM
163.343	Cerebral infarction to thrombosis of bilateral cerebellar arteries	DX	ICD-10-CM
163.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	DX	ICD-10-CM
163.39	Cerebral infarction due to thrombosis of other cerebral artery	DX	ICD-10-CM
163.411	Cerebral infarction due to embolism of right middle cerebral artery	DX	ICD-10-CM
163.412	Cerebral infarction due to embolism of left middle cerebral artery	DX	ICD-10-CM
163.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	DX	ICD-10-CM
163.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	DX	ICD-10-CM
163.421	Cerebral infarction due to embolism of right anterior cerebral artery	DX	ICD-10-CM
163.422	Cerebral infarction due to embolism of left anterior cerebral artery	DX	ICD-10-CM
163.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	DX	ICD-10-CM
163.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	DX	ICD-10-CM
163.431	Cerebral infarction due to embolism of right posterior cerebral artery	DX	ICD-10-CM
163.432	Cerebral infarction due to embolism of left posterior cerebral artery	DX	ICD-10-CM
163.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	DX	ICD-10-CM
163.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	DX	ICD-10-CM
163.441	Cerebral infarction due to embolism of right cerebellar artery	DX	ICD-10-CM
163.442	Cerebral infarction due to embolism of left cerebellar artery	DX	ICD-10-CM
163.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	DX	ICD-10-CM
163.449	Cerebral infarction due to embolism of unspecified cerebellar artery	DX	ICD-10-CM
163.49	Cerebral infarction due to embolism of other cerebral artery	DX	ICD-10-CM
163.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	DX	ICD-10-CM
163.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral	DX	ICD-10-CM
163.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle arteries	DX	ICD-10-CM
163.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	DX	ICD-10-CM
163.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	DX	ICD-10-CM
163.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	DX	ICD-10-CM
163.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior arteries	DX	ICD-10-CM
163.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	DX	ICD-10-CM
163.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	DX	ICD-10-CM
163.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	DX	ICD-10-CM
163.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior	DX	ICD-10-CM
163.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 281 of 702



tins reque			
Code	Description	Code Type	Code Category
163.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	DX	ICD-10-CM
163.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	DX	ICD-10-CM
163.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar	DX	ICD-10-CM
163.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	DX	ICD-10-CM
163.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	DX	ICD-10-CM
163.8	Other cerebral infarction	DX	ICD-10-CM
163.9	Cerebral infarction, unspecified	DX	ICD-10-CM
	Intracranial Hemorrhage		
430	Subarachnoid hemorrhage	DX	ICD-9-CM
431	Intracerebral hemorrhage	DX	ICD-9-CM
432	Other and unspecified intracranial hemorrhage	DX	ICD-9-CM
432	Nontraumatic extradural hemorrhage	DX	ICD-9-CM
432.1	Subdural hemorrhage	DX	ICD-9-CM
432.9	Unspecified intracranial hemorrhage	DX	ICD-9-CM
852	Subarachnoid hemorrhage following injury without mention of open intracranial wound	DX	ICD-9-CM
852	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	DX	ICD-9-CM
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	ICD-9-CM
852.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	DX	ICD-9-CM
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	DX	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 preexisting conscious level	DX	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	DX	ICD-9-CM
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	DX	ICD-9-CM
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	DX	ICD-9-CM
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	DX	ICD-9-CM
852.2	Subdural hemorrhage following injury, without mention of open intracranial wound,	DX	ICD-9-CM
	unspecified state of consciousness		
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	ICD-9-CM
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
852.23	Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 282 of 702



Code	Description	Code Type	Code Category
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	DX	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	DX	ICD-9-CM
852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	DX	ICD-9-CM
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	DX	ICD-9-CM
852.4	Extradural hemorrhage following injury without mention of open intracranial wound	DX	ICD-9-CM
852.4	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	DX	ICD-9-CM
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	ICD-9-CM
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	DX	ICD-9-CM
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	DX	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	DX	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	DX	ICD-9-CM
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	DX	ICD-9-CM
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	DX	ICD-9-CM
853	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound	DX	ICD-9-CM
853	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	DX	ICD-9-CM
853.01	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	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	DX	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	DX	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	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 283 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
853.05	Description Other and unspecified intracranial hemorrhage following injury. Without mention of	Code Type  DX	Code Category ICD-9-CM
633.03	open intracranial wound, prolonged (more than 24 hours) loss of consciousness,	DX	ICD-9-CIVI
	without return to pre-existing conscious level		
853.06	Other and unspecified intracranial hemorrhage following injury, without mention of	DX	ICD-9-CM
055.00	open intracranial wound, loss of consciousness of unspecified duration	DΛ	100 3 0111
853.09	Other and unspecified intracranial hemorrhage following injury, without mention of	DX	ICD-9-CM
	open intracranial wound, unspecified concussion		
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and	DX	ICD-10-CM
160.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	DX	ICD-10-CM
160.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	DX	ICD-10-CM
160.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	DX	ICD-10-CM
160.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	DX	ICD-10-CM
160.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	DX	ICD-10-CM
160.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	DX	ICD-10-CM
160.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating	DX	ICD-10-CM
	artery		
160.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	DX	ICD-10-CM
160.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	DX	ICD-10-CM
160.4	Nontraumatic subarachnoid hemorrhage from basilar artery	DX	ICD-10-CM
160.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	DX	ICD-10-CM
160.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	DX	ICD-10-CM
160.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	DX	ICD-10-CM
160.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	DX	ICD-10-CM
160.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	DX	ICD-10-CM
160.8	Other nontraumatic subarachnoid hemorrhage	DX	ICD-10-CM
160.9	Nontraumatic subarachnoid hemorrhage, unspecified	DX	ICD-10-CM
161.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	DX	ICD-10-CM
161.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	DX	ICD-10-CM
161.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	DX	ICD-10-CM
161.3	Nontraumatic intracerebral hemorrhage in brain stem	DX	ICD-10-CM
161.4	Nontraumatic intracerebral hemorrhage in cerebellum	DX	ICD-10-CM
161.5	Nontraumatic intracerebral hemorrhage, intraventricular	DX	ICD-10-CM
161.6	Nontraumatic intracerebral hemorrhage, multiple localized	DX	ICD-10-CM
161.8	Other nontraumatic intracerebral hemorrhage	DX	ICD-10-CM
161.9	Nontraumatic intracerebral hemorrhage, unspecified	DX	ICD-10-CM
162.00	Nontraumatic subdural hemorrhage, unspecified	DX	ICD-10-CM
162.01	Nontraumatic acute subdural hemorrhage	DX	ICD-10-CM
162.02	Nontraumatic subacute subdural hemorrhage	DX	ICD-10-CM
162.03	Nontraumatic chronic subdural hemorrhage	DX	ICD-10-CM
162.1	Nontraumatic extradural hemorrhage	DX	ICD-10-CM
162.9	Nontraumatic intracranial hemorrhage, unspecified	DX	ICD-10-CM
S06.340A	Traumatic hemorrhage of right cerebrum without loss of consciousness, initial	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 284 of 702



tins reque			
Code	Description	Code Type	<b>Code Category</b>
S06.341A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.342A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.343A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.344A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.345A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM
S06.346A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM
S06.347A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.348A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.349A	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM
S06.350A	Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.351A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.352A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.353A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.354A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.355A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM
S06.356A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial	DX	ICD-10-CM
S06.357A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.358A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.359A	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM
S06.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 285 of 702



till request					
Code	Description	Code Type	Code Category		
S06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM		
S06.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM		
S06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM		
S06.365A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM		
S06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM		
S06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM		
S06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM		
S06.369A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM		
S06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM		
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM		
S06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM		
S06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM		
S06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial	DX	ICD-10-CM		
S06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM		
S06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM		
S06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM		
S06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	DX	ICD-10-CM		
S06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM		
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM		
S06.5X1A	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM		
S06.5X2A	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM		
S06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM		

cder\_mpl2p\_wp047 Page 286 of 702



Code	Description	Code Type	<b>Code Category</b>	
S06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours,	DX	ICD-10-CM	
	initial encounter			
S06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with	DX	ICD-10-CM	
505 EV64	return to pre-existing conscious level, initial encounter	51/	105 10 011	
S06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours	DX	ICD-10-CM	
SOE EVZA	without return to pre-existing conscious level with patient surviving, initial encounter	DV	ICD 10 CM	
S06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	DX	ICD-10-CM	
S06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death	DX	ICD-10-CM	
300.3X8A	due to other cause before regaining consciousness, initial encounter	DX	ICD-10-CIVI	
S06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration,	DX	ICD-10-CM	
300.3/(3/(	initial encounter	D.A.	100 10 0111	
S06.6X0A	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM	
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less,	DX	ICD-10-CM	
	initial encounter			
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59	DX	ICD-10-CM	
	minutes, initial encounter			
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59	DX	ICD-10-CM	
	minutes, initial encounter			
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours,	DX	ICD-10-CM	
	initial encounter			
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours	DX	ICD-10-CM	
	with return to pre-existing conscious level, initial encounter			
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours	DX	ICD-10-CM	
505 6V7A	without return to pre-existing conscious level with patient surviving, initial encounter	DV	100 40 614	
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with	DX	ICD-10-CM	
S06.6X8A	death due to brain injury prior to regaining consciousness, initial encounter  Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with	DX	ICD 10 CM	
300.0X6A	death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM	
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified	DX	ICD-10-CM	
300.0X3A	duration, initial encounter	DX	ICD 10 CIVI	
Gastrointestinal Bleeding - List 1				
455.2	Internal hemorrhoids with other complication		ICD-9-CM	
455.5	External hemorrhoids with other complication		ICD-9-CM	
455.8	Unspecified hemorrhoids with other complication		ICD-9-CM	
456	Esophageal varices with bleeding		ICD-9-CM	
456.2	Esophageal varices with bleeding in diseases classified elsewhere		ICD-9-CM	
459	Unspecified hemorrhage		ICD-9-CM	
530.7	Gastroesophageal laceration-hemorrhage syndrome		ICD-9-CM	
530.82	Esophageal hemorrhage		ICD-9-CM	
531	Acute gastric ulcer with hemorrhage, without mention of obstruction		ICD-9-CM	
531.01	Acute gastric ulcer with hemorrhage and obstruction		ICD-9-CM	
531.2	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction		ICD-9-CM	

cder\_mpl2p\_wp047 Page 287 of 702



Code	Description	Code Type	Code Category
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction		ICD-9-CM
531.4	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction		ICD-9-CM
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction		ICD-9-CM
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation		ICD-9-CM
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction		ICD-9-CM
532	Acute duodenal ulcer with hemorrhage, without mention of obstruction		ICD-9-CM
532.01	Acute duodenal ulcer with hemorrhage and obstruction		ICD-9-CM
532.2	Acute duodenal ulcer with hemorrhage and perforation, without mention of		ICD-9-CM
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction		ICD-9-CM
532.4	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction		ICD-9-CM
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	DX	ICD-9-CM
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
533	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-9-CM
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-9-CM
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-9-CM
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-9-CM
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
534	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-9-CM
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-9-CM
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and	DX	ICD-9-CM
535.01	Acute gastritis with hemorrhage	DX	ICD-9-CM
535.11	Atrophic gastritis with hemorrhage	DX	ICD-9-CM
535.21	Gastric mucosal hypertrophy with hemorrhage	DX	ICD-9-CM
535.31	Alcoholic gastritis with hemorrhage	DX	ICD-9-CM
535.41	Other specified gastritis with hemorrhage	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 288 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

till3 Neque	<u> </u>		
Code	Description	Code Type	Code Category
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	DX	ICD-9-CM
535.61	Duodenitis with hemorrhage	DX	ICD-9-CM
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	DX	ICD-9-CM
562.02	Diverticulosis of small intestine with hemorrhage	DX	ICD-9-CM
562.03	Diverticulitis of small intestine with hemorrhage	DX	ICD-9-CM
562.12	Diverticulosis of colon with hemorrhage	DX	ICD-9-CM
562.13	Diverticulitis of colon with hemorrhage	DX	ICD-9-CM
568.81	Hemoperitoneum (nontraumatic)	DX	ICD-9-CM
569.3	Hemorrhage of rectum and anus	DX	ICD-9-CM
569.85	Angiodysplasia of intestine with hemorrhage	DX	ICD-9-CM
578	Hematemesis	DX	ICD-9-CM
578.1	Blood in stool	DX	ICD-9-CM
578.9	Hemorrhage of gastrointestinal tract, unspecified	DX	ICD-9-CM
185.01	Esophageal varices with bleeding	DX	ICD-10-CM
185.11	Secondary esophageal varices with bleeding	DX	ICD-10-CM
K22.6	Gastro-esophageal laceration-hemorrhage syndrome	DX	ICD-10-CM
K22.8	Other specified diseases of esophagus	DX	ICD-10-CM
K25.0	Acute gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.2	Acute gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K25.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.0	Acute duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.2	Acute duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K27.0	Acute peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K28.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K29.01	Acute gastritis with bleeding	DX	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	DX	ICD-10-CM
K29.31	Chronic superficial gastritis with bleeding	DX	ICD-10-CM
K29.41	Chronic atrophic gastritis with bleeding	DX	ICD-10-CM
K29.51	Unspecified chronic gastritis with bleeding	DX	ICD-10-CM
K29.61	Other gastritis with bleeding	DX	ICD-10-CM
K29.71	Gastritis, unspecified, with bleeding	DX	ICD-10-CM
K29.81	Duodenitis with bleeding	DX	ICD-10-CM
K29.91	Gastroduodenitis, unspecified, with bleeding	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 289 of 702



Code	Description	Code Type	Code Category
K31.811	Angiodysplasia of stomach and duodenum with bleeding	DX	ICD-10-CM
K55.21	Angiodysplasia of colon with hemorrhage	DX	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	DX	ICD-10-CM
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with	DX	ICD-10-CM
K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	DX	ICD-10-CM
K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with	DX	ICD-10-CM
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding	DX	ICD-10-CM
K62.5	Hemorrhage of anus and rectum	DX	ICD-10-CM
K64.0	First degree hemorrhoids	DX	ICD-10-CM
K64.1	Second degree hemorrhoids	DX	ICD-10-CM
K64.2	Third degree hemorrhoids	DX	ICD-10-CM
K64.3	Fourth degree hemorrhoids	DX	ICD-10-CM
K64.4	Residual hemorrhoidal skin tags	DX	ICD-10-CM
K64.8	Other hemorrhoids	DX	ICD-10-CM
K66.1	Hemoperitoneum	DX	ICD-10-CM
K92.0	Hematemesis	DX	ICD-10-CM
K92.1	Melena	DX	ICD-10-CM
K92.2	Gastrointestinal hemorrhage, unspecified	DX	ICD-10-CM
R58	Hemorrhage, not elsewhere classified	DX	ICD-10-CM
	Gastrointestinal Bleeding - List 2		
455.0	Internal hemorrhoids without mention of complication	DX	ICD-9-CM
455.1	Internal thrombosed hemorrhoids	DX	ICD-9-CM
455.3	External hemorrhoids without mention of complication	DX	ICD-9-CM
455.4	External thrombosed hemorrhoids	DX	ICD-9-CM
455.6	Unspecified hemorrhoids without mention of complication	DX	ICD-9-CM
455.7	Unspecified thrombosed hemorrhoids	DX	ICD-9-CM
531.1	Acute gastric ulcer with perforation	DX	ICD-9-CM
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
531.5	Chronic or unspecified gastric ulcer with perforation	DX	ICD-9-CM
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
531.9	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-9-CM
532.1	Acute duodenal ulcer with perforation	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 290 of 702



Code	Description	Code Type	Code Category
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
532.5	Chronic or unspecified duodenal ulcer with perforation	DX	ICD-9-CM
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or	DX	ICD-9-CM
	perforation		
533.1	Acute peptic ulcer, unspecified site, with perforation	DX	ICD-9-CM
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	DX	ICD-9-CM
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	DX	ICD-9-CM
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	DX	ICD-9-CM
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of	DX	ICD-9-CM
	hemorrhage or perforation		
534.1	Acute gastrojejunal ulcer with perforation	DX	ICD-9-CM
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	DX	ICD-9-CM
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
534.9	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-9-CM
535.00	Acute gastritis without mention of hemorrhage	DX	ICD-9-CM
535.10	Atrophic gastritis without mention of hemorrhage	DX	ICD-9-CM
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	DX	ICD-9-CM
535.30	Alcoholic gastritis without mention of hemorrhage	DX	ICD-9-CM
535.40	Other specified gastritis without mention of hemorrhage	DX	ICD-9-CM
535.50	Unspecified gastritis and gastroduodenitis without mention of hemorrhage	DX	ICD-9-CM
535.60	Duodenitis without mention of hemorrhage	DX	ICD-9-CM
562.00	Diverticulosis of small intestine (without mention of hemorrhage)	DX	ICD-9-CM
562.01	Diverticulitis of small intestine (without mention of hemorrhage)	DX	ICD-9-CM
562.10	Diverticulosis of colon (without mention of hemorrhage)	DX	ICD-9-CM
562.11	Diverticulitis of colon (without mention of hemorrhage)	DX	ICD-9-CM
530.1	Esophagitis	DX	ICD-9-CM
K29.00	Acute gastritis without bleeding	DX	ICD-10-CM
K29.20	Alcoholic gastritis without bleeding	DX	ICD-10-CM
K29.30	Chronic superficial gastritis without bleeding	DX	ICD-10-CM
K29.40	Chronic atrophic gastritis without bleeding	DX	ICD-10-CM
K29.50	Unspecified chronic gastritis without bleeding	DX	ICD-10-CM
K29.60	Other gastritis without bleeding	DX	ICD-10-CM
K29.70	Gastritis, unspecified, without bleeding	DX	ICD-10-CM
K29.80	Duodenitis without bleeding	DX	ICD-10-CM
K29.90	Gastroduodenitis, unspecified, without bleeding	DX	ICD-10-CM
K57.00	Diverticulitis of small intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.10	Diverticulosis of small intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.12	Diverticulitis of small intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.20	Diverticulitis of large intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 291 of 702



Code	Description	Code Type	Code Category
K57.32	Diverticulitis of large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.40	Diverticulitis of both small and large intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.50	Diverticulosis of both small and large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.52	Diverticulitis of both small and large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.80	Diverticulitis of intestine, part unspecified, with perforation and abscess without bleeding	DX	ICD-10-CM
K57.90	Diverticulosis of intestine, part unspecified, without perforation or abscess without bleeding	DX	ICD-10-CM
K57.92	Diverticulitis of intestine, part unspecified, without perforation or abscess without bleeding	DX	ICD-10-CM
K64.0	First degree hemorrhoids	DX	ICD-10-CM
K64.1	Second degree hemorrhoids	DX	ICD-10-CM
K64.2	Third degree hemorrhoids	DX	ICD-10-CM
K64.3	Fourth degree hemorrhoids	DX	ICD-10-CM
K64.4	Residual hemorrhoidal skin tags	DX	ICD-10-CM
K64.5	Perianal venous thrombosis	DX	ICD-10-CM
K64.8	Other hemorrhoids	DX	ICD-10-CM
K64.9	Unspecified hemorrhoids	DX	ICD-10-CM
	Major Extracranial Bleeding - List 1		
423.0	Hemopericardium	DX	ICD-9-CM
455.2	Internal hemorrhoids with other complication	DX	ICD-9-CM
455.5	External hemorrhoids with other complication	DX	ICD-9-CM
455.8	Unspecified hemorrhoids with other complication	DX	ICD-9-CM
456.0	Esophageal varices with bleeding	DX	ICD-9-CM
456.20	Esophageal varices with bleeding in diseases classified elsewhere	DX	ICD-9-CM
459.0	Unspecified hemorrhage	DX	ICD-9-CM
530.7	Gastroesophageal laceration-hemorrhage syndrome	DX	ICD-9-CM
530.82	Esophageal hemorrhage	DX	ICD-9-CM
531.0	Acute gastric ulcer with hemorrhage	DX	ICD-9-CM
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
531.01	Acute gastric ulcer with hemorrhage and obstruction	DX	ICD-9-CM
531.2	Acute gastric ulcer with hemorrhage and perforation	DX	ICD-9-CM
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
531.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-9-CM
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	DX	ICD-9-CM
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	DX	ICD-9-CM
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 292 of 702



Code	Description	Code Type	<b>Code Category</b>
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
532.0	Acute duodenal ulcer with hemorrhage	DX	ICD-9-CM
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
532.01	Acute duodenal ulcer with hemorrhage and obstruction	DX	ICD-9-CM
532.2	Acute duodenal ulcer with hemorrhage and perforation	DX	ICD-9-CM
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of	DX	ICD-9-CM
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
532.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-9-CM
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	DX	ICD-9-CM
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	DX	ICD-9-CM
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	DX	ICD-9-CM
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	DX	ICD-9-CM
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-9-CM
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-9-CM
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	DX	ICD-9-CM
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	DX	ICD-9-CM
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-9-CM
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-9-CM
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	DX	ICD-9-CM
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
534.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-9-CM
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-9-CM
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	DX	ICD-9-CM
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-9-CM
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-9-CM
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 293 of 702



mention of obstruction	nage	DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
mention of obstruction  534.61 Chronic or unspecified gastrojejunal of the state of	ulcer with hemorrhage, perforation, and morrhage	DX DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
Chronic or unspecified gastrojejunal of S35.01 Acute gastritis with hemorrhage Atrophic gastritis with hemorrhage Gastric mucosal hypertrophy with he S35.31 Alcoholic gastritis with hemorrhage Other specified gastritis with hemorrhage Unspecified gastritis and gastroduode Gastroduo	morrhage	DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
Acute gastritis with hemorrhage Atrophic gastritis with hemorrhage Sas.21 Gastric mucosal hypertrophy with he Sas.31 Alcoholic gastritis with hemorrhage Control of the specified gastritis with hemorrhage Control of the specified gastritis and gastroduode Contro	morrhage	DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
Atrophic gastritis with hemorrhage Gastric mucosal hypertrophy with he Alcoholic gastritis with hemorrhage Other specified gastritis with hemorr Unspecified gastritis and gastroduode	nage	DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
<ul> <li>Gastric mucosal hypertrophy with he</li> <li>Alcoholic gastritis with hemorrhage</li> <li>Other specified gastritis with hemorr</li> <li>Unspecified gastritis and gastroduode</li> </ul>	nage	DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM
535.31 Alcoholic gastritis with hemorrhage 535.41 Other specified gastritis with hemorr 535.51 Unspecified gastritis and gastroduode	nage	DX DX	ICD-9-CM ICD-9-CM
Other specified gastritis with hemorr 535.51 Unspecified gastritis and gastroduodo	_	DX	ICD-9-CM
535.51 Unspecified gastritis and gastroduode	_		
	enitis with hemorrhage	DX	
535.61 Duodenitis with hemorrhage			ICD-9-CM
Daodemins with hemolinage		DX	ICD-9-CM
Angiodysplasia of stomach and duode	enum with hemorrhage	DX	ICD-9-CM
562.02 Diverticulosis of small intestine with I	nemorrhage	DX	ICD-9-CM
562.03 Diverticulitis of small intestine with h	emorrhage	DX	ICD-9-CM
562.12 Diverticulosis of colon with hemorrha	ge	DX	ICD-9-CM
562.13 Diverticulitis of colon with hemorrhag	ge	DX	ICD-9-CM
568.81 Hemoperitoneum (nontraumatic)		DX	ICD-9-CM
Hemorrhage of rectum and anus		DX	ICD-9-CM
Angiodysplasia of intestine with hem	orrhage	DX	ICD-9-CM
578.0 Hematemesis		DX	ICD-9-CM
578.1 Blood in stool		DX	ICD-9-CM
578.9 Hemorrhage of gastrointestinal tract,	unspecified	DX	ICD-9-CM
593.81 Vascular disorders of kidney		DX	ICD-9-CM
599.7 Hematuria		DX	ICD-9-CM
623.8 Other specified noninflammatory disc	order of vagina	DX	ICD-9-CM
626.2 Excessive or frequent menstruation		DX	ICD-9-CM
626.6 Metrorrhagia		DX	ICD-9-CM
719.1 Hemarthrosis		DX	ICD-9-CM
719.10 Hemarthrosis, site unspecified		DX	ICD-9-CM
719.11 Hemarthrosis, shoulder region		DX	ICD-9-CM
719.12 Hemarthrosis, upper arm		DX	ICD-9-CM
719.13 Hemarthrosis, forearm		DX	ICD-9-CM
719.14 Hemarthrosis, hand		DX	ICD-9-CM
719.15 Hemarthrosis, pelvic region and thigh		DX	ICD-9-CM
719.16 Hemarthrosis, lower leg		DX	ICD-9-CM
719.17 Hemarthrosis, ankle and foot		DX	ICD-9-CM
719.18 Hemarthrosis, other specified site		DX	ICD-9-CM
719.19 Hemarthrosis, multiple sites		DX	ICD-9-CM
784.7 Epistaxis		DX	ICD-9-CM
784.8 Hemorrhage from throat		DX	ICD-9-CM
786.3 Hemoptysis		DX	ICD-9-CM
I31.2 Hemopericardium, not elsewhere cla	ssified	DX	ICD-10-CM
I85.01 Esophageal varices with bleeding		DX	ICD-10-CM
185.11 Secondary esophageal varices with bl	eeding	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 294 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

this Reque	ist ————————————————————————————————————		
Code	Description	Code Type	Code Category
K22.6	Gastro-esophageal laceration-hemorrhage syndrome	DX	ICD-10-CM
K22.8	Other specified diseases of esophagus	DX	ICD-10-CM
K25.0	Acute gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.2	Acute gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K25.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.0	Acute duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.2	Acute duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K27.0	Acute peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K28.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K29.01	Acute gastritis with bleeding	DX	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	DX	ICD-10-CM
K29.31	Chronic superficial gastritis with bleeding	DX	ICD-10-CM
K29.41	Chronic atrophic gastritis with bleeding	DX	ICD-10-CM
K29.51	Unspecified chronic gastritis with bleeding	DX	ICD-10-CM
K29.61	Other gastritis with bleeding	DX	ICD-10-CM
K29.71	Gastritis, unspecified, with bleeding	DX	ICD-10-CM
K29.81	Duodenitis with bleeding	DX	ICD-10-CM
K29.91	Gastroduodenitis, unspecified, with bleeding	DX	ICD-10-CM
K31.811	Angiodysplasia of stomach and duodenum with bleeding	DX	ICD-10-CM
K55.21	Angiodysplasia of colon with hemorrhage	DX	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	DX	ICD-10-CM
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with	DX	ICD-10-CM
K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 295 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tins reque			
Code	Description	Code Type	Code Category
K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with	DX	ICD-10-CM
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding	DX	ICD-10-CM
K62.5	Hemorrhage of anus and rectum	DX	ICD-10-CM
K64.0	First degree hemorrhoids	DX	ICD-10-CM
K64.1	Second degree hemorrhoids	DX	ICD-10-CM
K64.2	Third degree hemorrhoids	DX	ICD-10-CM
K64.3	Fourth degree hemorrhoids	DX	ICD-10-CM
K64.4	Residual hemorrhoidal skin tags	DX	ICD-10-CM
K64.8	Other hemorrhoids	DX	ICD-10-CM
K66.1	Hemoperitoneum	DX	ICD-10-CM
K92.0	Hematemesis	DX	ICD-10-CM
K92.1	Melena	DX	ICD-10-CM
K92.2	Gastrointestinal hemorrhage, unspecified	DX	ICD-10-CM
M25.00	Hemarthrosis, unspecified joint	DX	ICD-10-CM
M25.011	Hemarthrosis, right shoulder	DX	ICD-10-CM
M25.012	Hemarthrosis, left shoulder	DX	ICD-10-CM
M25.019	Hemarthrosis, unspecified shoulder	DX	ICD-10-CM
M25.021	Hemarthrosis, right elbow	DX	ICD-10-CM
M25.022	Hemarthrosis, left elbow	DX	ICD-10-CM
M25.029	Hemarthrosis, unspecified elbow	DX	ICD-10-CM
M25.031	Hemarthrosis, right wrist	DX	ICD-10-CM
M25.032	Hemarthrosis, left wrist	DX	ICD-10-CM
M25.039	Hemarthrosis, unspecified wrist	DX	ICD-10-CM
M25.041	Hemarthrosis, right hand	DX	ICD-10-CM
M25.042	Hemarthrosis, left hand	DX	ICD-10-CM
M25.049	Hemarthrosis, unspecified hand	DX	ICD-10-CM
M25.051	Hemarthrosis, right hip	DX	ICD-10-CM
M25.052	Hemarthrosis, left hip	DX	ICD-10-CM
M25.059	Hemarthrosis, unspecified hip	DX	ICD-10-CM
M25.061	Hemarthrosis, right knee	DX	ICD-10-CM
M25.062	Hemarthrosis, left knee	DX	ICD-10-CM
M25.069	Hemarthrosis, unspecified knee	DX	ICD-10-CM
M25.071	Hemarthrosis, right ankle	DX	ICD-10-CM
M25.072	Hemarthrosis, left ankle	DX	ICD-10-CM
M25.073	Hemarthrosis, unspecified ankle	DX	ICD-10-CM
M25.074	Hemarthrosis, right foot	DX	ICD-10-CM
M25.075	Hemarthrosis, left foot	DX	ICD-10-CM
M25.076	Hemarthrosis, unspecified foot	DX	ICD-10-CM
M25.08	Hemarthrosis, other specified site	DX	ICD-10-CM
N28.0	Ischemia and infarction of kidney	DX	ICD-10-CM
N89.8	Other specified noninflammatory disorders of vagina	DX	ICD-10-CM
N92.0	Excessive and frequent menstruation with regular cycle	DX	ICD-10-CM
N92.1	Excessive and frequent menstruation with irregular cycle	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 296 of 702



Code	Description	Code Type	Code Category
R04.0	Epistaxis	DX	ICD-10-CM
R04.1	Hemorrhage from throat	DX	ICD-10-CM
R58	Hemorrhage, not elsewhere classified	DX	ICD-10-CM
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation	DX	ICD-10-CM
	Major Extracranial Bleeding - List 2		
280.0	Iron deficiency anemia secondary to blood loss (chronic)	DX	ICD-9-CM
285.1	Acute posthemorrhagic anemia	DX	ICD-9-CM
285.9	Unspecified anemia	DX	ICD-9-CM
455.0	Internal hemorrhoids without mention of complication	DX	ICD-9-CM
455.1	Internal thrombosed hemorrhoids	DX	ICD-9-CM
455.2	Internal hemorrhoids with other complication	DX	ICD-9-CM
455.3	External hemorrhoids without mention of complication	DX	ICD-9-CM
455.4	External thrombosed hemorrhoids	DX	ICD-9-CM
455.5	External hemorrhoids with other complication	DX	ICD-9-CM
455.6	Unspecified hemorrhoids without mention of complication	DX	ICD-9-CM
455.7	Unspecified thrombosed hemorrhoids	DX	ICD-9-CM
455.8	Unspecified hemorrhoids with other complication	DX	ICD-9-CM
455.9	Residual hemorrhoidal skin tags	DX	ICD-9-CM
530.1	Esophagitis	DX	ICD-9-CM
531.1	Acute gastric ulcer with perforation	DX	ICD-9-CM
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
531.5	Chronic or unspecified gastric ulcer with perforation	DX	ICD-9-CM
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
531.9	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-9-CM
532.1	Acute duodenal ulcer with perforation	DX	ICD-9-CM
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
532.5	Chronic or unspecified duodenal ulcer with perforation	DX	ICD-9-CM
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-9-CM
533.1	Acute peptic ulcer, unspecified site, with perforation	DX	ICD-9-CM
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	DX	ICD-9-CM
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	DX	ICD-9-CM
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	DX	ICD-9-CM
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-9-CM
534.1	Acute gastrojejunal ulcer with perforation	DX	ICD-9-CM
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	DX	ICD-9-CM
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
534.9	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation		ICD-9-CM

cder\_mpl2p\_wp047 Page 297 of 702



Code	Description	Code Type	Code Category
535.00	Acute gastritis without mention of hemorrhage	DX	ICD-9-CM
535.10	Atrophic gastritis without mention of hemorrhage	DX	ICD-9-CM
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	DX	ICD-9-CM
535.30	Alcoholic gastritis without mention of hemorrhage	DX	ICD-9-CM
535.40	Other specified gastritis without mention of hemorrhage	DX	ICD-9-CM
535.50	Unspecified gastritis and gastroduodenitis without mention of hemorrhage	DX	ICD-9-CM
535.60	Duodenitis without mention of hemorrhage	DX	ICD-9-CM
562.00	Diverticulosis of small intestine (without mention of hemorrhage)	DX	ICD-9-CM
562.01	Diverticulitis of small intestine (without mention of hemorrhage)	DX	ICD-9-CM
562.10	Diverticulosis of colon (without mention of hemorrhage)	DX	ICD-9-CM
562.11	Diverticulitis of colon (without mention of hemorrhage)	DX	ICD-9-CM
790.92	Abnormal coagulation profile	DX	ICD-9-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	DX	ICD-10-CM
D62	Acute posthemorrhagic anemia	DX	ICD-10-CM
D64.9	Anemia, unspecified	DX	ICD-10-CM
K29.00	Acute gastritis without bleeding	DX	ICD-10-CM
K29.20	Alcoholic gastritis without bleeding	DX	ICD-10-CM
K29.30	Chronic superficial gastritis without bleeding	DX	ICD-10-CM
K29.40	Chronic atrophic gastritis without bleeding	DX	ICD-10-CM
K29.50	Unspecified chronic gastritis without bleeding	DX	ICD-10-CM
K29.60	Other gastritis without bleeding	DX	ICD-10-CM
K29.70	Gastritis, unspecified, without bleeding	DX	ICD-10-CM
K29.80	Duodenitis without bleeding	DX	ICD-10-CM
K29.90	Gastroduodenitis, unspecified, without bleeding	DX	ICD-10-CM
K57.00	Diverticulitis of small intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.10	Diverticulosis of small intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.12	Diverticulitis of small intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.20	Diverticulitis of large intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.32	Diverticulitis of large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.40	Diverticulitis of both small and large intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.50	Diverticulosis of both small and large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.52	Diverticulitis of both small and large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.80	Diverticulitis of intestine, part unspecified, with perforation and abscess without bleeding	DX	ICD-10-CM
K57.90	Diverticulosis of intestine, part unspecified, without perforation or abscess without bleeding	DX	ICD-10-CM
K57.92	Diverticulitis of intestine, part unspecified, without perforation or abscess without bleeding	DX	ICD-10-CM
K64.0	First degree hemorrhoids	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 298 of 702



Code	Description	Code Type	Code Category
K64.1	Second degree hemorrhoids	DX	ICD-10-CM
K64.2	Third degree hemorrhoids	DX	ICD-10-CM
K64.3	Fourth degree hemorrhoids	DX	ICD-10-CM
K64.4	Residual hemorrhoidal skin tags	DX	ICD-10-CM
K64.5	Perianal venous thrombosis	DX	ICD-10-CM
K64.8	Other hemorrhoids	DX	ICD-10-CM
K64.9	Unspecified hemorrhoids	DX	ICD-10-CM
R79.1	Abnormal coagulation profile	DX	ICD-10-CM
	Major Extracranial Bleeding - List 3		
62000	Elevation of depressed skull fracture; simple, extradural	DX	CPT-4
62005	Elevation of depressed skull fracture; compound or comminuted, extradural	DX	CPT-4
62010	Elevation of depressed skull fracture; with repair of dura and/or debridement of brain	DX	CPT-4
800	Fracture of vault of skull	DX	ICD-9-CM
800.0	Closed fracture of vault of skull without mention of intracranial injury	DX	ICD-9-CM
800.00	Closed fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness	DX	ICD-9-CM
800.01	Closed fracture of vault of skull without mention of intracranial injury, no loss of consciousness	DX	ICD-9-CM
800.02	Closed fracture of vault of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.03	Closed fracture of vault of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.04	Closed fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.05	Closed fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.06	Closed fracture of vault of skull without mention of intracranial injury, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.09	Closed fracture of vault of skull without mention of intracranial injury, unspecified concussion	DX	ICD-9-CM
800.1	Closed fracture of vault of skull with cerebral laceration and contusion	DX	ICD-9-CM
800.10	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness	DX	ICD-9-CM
800.11	Closed fracture of vault of skull with cerebral laceration and contusion, no loss of consciousness	DX	ICD-9-CM
800.12	Closed fracture of vault of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.13	Closed fracture of vault of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.14	Closed fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.15	Closed fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 299 of 702



Code	Description	Code Type	Code Category
800.16	Closed fracture of vault of skull with cerebral laceration and contusion, loss of	DX	ICD-9-CM
	consciousness of unspecified duration		
800.19	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified	DX	ICD-9-CM
	concussion		
800.2	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
800.20	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, unspecified state of consciousness		
800.21	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, no loss of consciousness		
800.22	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, brief (less than one hour) loss of consciousness		
800.23	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, moderate (1-24 hours) loss of consciousness		
800.24	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-		
	existing conscious level		
800.25	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to		
	pre-existing conscious level		
800.26	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, loss of consciousness of unspecified duration		
800.29	Closed fracture of vault of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
	hemorrhage, unspecified concussion		
800.3	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage	DX	ICD-9-CM
800.30	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
222.24	unspecified state of consciousness	514	100.0.014
800.31	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, no	DX	ICD-9-CM
	loss of consciousness	514	100.0.014
800.32	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	brief (less than one hour) loss of consciousness	514	100 0 014
800.33	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
000 24	moderate (1-24 hours) loss of consciousness	57	160.0.614
800.34	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing		
000 25	conscious level	DV	ICD O CM
800.35	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		
900.26	conscious level	DV	ICD 0 CM
800.36	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
900 20	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	DV	ICD O CM
800.39	unspecified concussion	DX	ICD-9-CM
800.4	Closed fracture of vault of skull with intercranial injury of other and unspecified nature	DX	ICD-9-CM
300.4	Closed fracture of vault of skull with interchannal injury of other and unspecified flature	DΛ	ICD-3-CIVI

cder\_mpl2p\_wp047 Page 300 of 702



Code	Description	Code Type	Code Category
800.40	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	DX	ICD-9-CM
800.41	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, no loss of consciousness	DX	ICD-9-CM
800.42	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.43	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.44	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.45	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.46	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.49	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified concussion	DX	ICD-9-CM
800.5	Open fracture of vault of skull without mention of intracranial injury	DX	ICD-9-CM
800.50	Open fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness	DX	ICD-9-CM
800.51	Open fracture of vault of skull without mention of intracranial injury, no loss of consciousness	DX	ICD-9-CM
800.52	Open fracture of vault of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.53	Open fracture of vault of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.54	Open fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.55	Open fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.56	Open fracture of vault of skull without mention of intracranial injury, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.59	Open fracture of vault of skull without mention of intracranial injury, unspecified concussion	DX	ICD-9-CM
800.6	Open fracture of vault of skull with cerebral laceration and contusion	DX	ICD-9-CM
800.60	Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness		ICD-9-CM
800.61	Open fracture of vault of skull with cerebral laceration and contusion, no loss of consciousness	DX	ICD-9-CM
800.62	Open fracture of vault of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 301 of 702



Code	Description	Code Type	Code Category
800.63	Open fracture of vault of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.64	Open fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.65	Open fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.66	Open fracture of vault of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.69	Open fracture of vault of skull with cerebral laceration and contusion, unspecified concussion	DX	ICD-9-CM
800.7	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage	DX	ICD-9-CM
800.70	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
800.71	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	DX	ICD-9-CM
800.72	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.73	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.74	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.75	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.76	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.79	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	DX	ICD-9-CM
800.8	Open fracture of vault of skull with other and unspecified intracranial hemorrhage	DX	ICD-9-CM
800.80	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
800.81	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	DX	ICD-9-CM
800.82	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.83	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.84	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 302 of 702



tills requi			
Code	Description	Code Type	Code Category
800.85	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.86	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.89	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified concussion	DX	ICD-9-CM
800.9	Open fracture of vault of skull with intracranial injury of other and unspecified nature	DX	ICD-9-CM
800.90	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	DX	ICD-9-CM
800.91	Open fracture of vault of skull with intracranial injury of other and unspecified nature, no loss of consciousness	DX	ICD-9-CM
800.92	Open fracture of vault of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
800.93	Open fracture of vault of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
800.94	Open fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
800.95	Open fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
800.96	Open fracture of vault of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	DX	ICD-9-CM
800.99	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified concussion	DX	ICD-9-CM
801	Fracture of base of skull	DX	ICD-9-CM
801.0	Closed fracture of base of skull without mention of intracranial injury	DX	ICD-9-CM
801.00	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness	DX	ICD-9-CM
801.01	Closed fracture of base of skull without mention of intracranial injury, no loss of consciousness	DX	ICD-9-CM
801.02	Closed fracture of base of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.03	Closed fracture of base of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.04	Closed fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.05	Closed fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.06	Closed fracture of base of skull without mention of intracranial injury, loss of consciousness of unspecified duration	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 303 of 702



Code	Description	Code Type	Code Category
801.09	Closed fracture of base of skull without mention of intracranial injury, unspecified	DX	ICD-9-CM
	concussion		
801.1	Closed fracture of base of skull with cerebral laceration and contusion	DX	ICD-9-CM
801.10	Closed fracture of base of skull with cerebral laceration and contusion, unspecified	DX	ICD-9-CM
	state of consciousness		
801.11	Closed fracture of base of skull with cerebral laceration and contusion, no loss of consciousness	DX	ICD-9-CM
801.12	Closed fracture of base of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.13	Closed fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.14	Closed fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.15	Closed fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.16	Closed fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.19	Closed fracture of base of skull with cerebral laceration and contusion, unspecified concussion	DX	ICD-9-CM
801.2	Closed fracture of base of skull with subarachnoid, subdural, and extradural	DX	ICD-9-CM
801.20	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
801.21	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	DX	ICD-9-CM
801.22	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.23	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.24	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.25	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.26	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.29	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	DX	ICD-9-CM
801.3	Closed fracture of base of skull with other and unspecified intracranial hemorrhage	DX	ICD-9-CM
801.30	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
801.31	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 304 of 702



Code	Description	Code Type	Code Category
801.32	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.33	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.34	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.35	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.36	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.39	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified concussion	DX	ICD-9-CM
801.4	Closed fracture of base of skull with intracranial injury of other and unspecified nature	DX	ICD-9-CM
801.40	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	DX	ICD-9-CM
801.41	Closed fracture of base of skull with intracranial injury of other and unspecified nature, no loss of consciousness	DX	ICD-9-CM
801.42	Closed fracture of base of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.43	Closed fracture of base of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.44	Closed fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.45	Closed fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.46	Closed fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.49	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussion	DX	ICD-9-CM
801.5	Open fracture of base of skull without mention of intracranial injury	DX	ICD-9-CM
801.50	Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness	DX	ICD-9-CM
801.51	Open fracture of base of skull without mention of intracranial injury, no loss of consciousness	DX	ICD-9-CM
801.52	Open fracture of base of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.53	Open fracture of base of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 305 of 702



tills requ			
Code	Description	Code Type	Code Category
801.54	Open fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.55	Open fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.56	Open fracture of base of skull without mention of intracranial injury, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.59	Open fracture of base of skull without mention of intracranial injury, unspecified concussion	DX	ICD-9-CM
801.6	Open fracture of base of skull with cerebral laceration and contusion	DX	ICD-9-CM
801.60	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	DX	ICD-9-CM
801.61	Open fracture of base of skull with cerebral laceration and contusion, no loss of consciousness	DX	ICD-9-CM
801.62	Open fracture of base of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.63	Open fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.64	Open fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.65	Open fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.66	Open fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.69	Open fracture of base of skull with cerebral laceration and contusion, unspecified concussion	DX	ICD-9-CM
801.7	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage	DX	ICD-9-CM
801.70	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness		ICD-9-CM
801.71	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	, DX	ICD-9-CM
801.72	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	, DX	ICD-9-CM
801.73	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	, DX	ICD-9-CM
801.74	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	, DX	ICD-9-CM
801.75	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	, DX	ICD-9-CM
801.76	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	, DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 306 of 702



Code	Description	Code Type	Code Category
801.79	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	DX	ICD-9-CM
	unspecified concussion		
801.8	Open fracture of base of skull with other and unspecified intracranial hemorrhage	DX	ICD-9-CM
801.80	Open fracture of base of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	unspecified state of consciousness		
801.81	Open fracture of base of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	DX	ICD-9-CM
801.82	Open fracture of base of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.83	Open fracture of base of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.84	Open fracture of base of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
801.85	Open fracture of base of skull with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level		
801.86	Open fracture of base of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.89	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified concussion	DX	ICD-9-CM
801.9	Open fracture of base of skull with intracranial injury of other and unspecified nature	DX	ICD-9-CM
801.90	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	DX	ICD-9-CM
801.91	Open fracture of base of skull with intracranial injury of other and unspecified nature, no loss of consciousness	DX	ICD-9-CM
801.92	Open fracture of base of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
801.93	Open fracture of base of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
801.94	Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
801.95	Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
801.96	Open fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	DX	ICD-9-CM
801.99	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussion	DX	ICD-9-CM
802	Fracture of face bones	DX	ICD-9-CM
802.0	Nasal bones, closed fracture	DX	ICD-9-CM
802.1	Nasal bones, open fracture	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 307 of 702



tins reque	<u> </u>		
Code	Description	Code Type	Code Category
802.2	Mandible, closed fracture	DX	ICD-9-CM
802.20	Closed fracture of unspecified site of mandible	DX	ICD-9-CM
802.21	Closed fracture of condylar process of mandible	DX	ICD-9-CM
802.22	Closed fracture of subcondylar process of mandible	DX	ICD-9-CM
802.23	Closed fracture of coronoid process of mandible	DX	ICD-9-CM
802.24	Closed fracture of unspecified part of ramus of mandible	DX	ICD-9-CM
802.25	Closed fracture of angle of jaw	DX	ICD-9-CM
802.26	Closed fracture of symphysis of body of mandible	DX	ICD-9-CM
802.27	Closed fracture of alveolar border of body of mandible	DX	ICD-9-CM
802.28	Closed fracture of other and unspecified part of body of mandible	DX	ICD-9-CM
802.29	Closed fracture of multiple sites of mandible	DX	ICD-9-CM
802.3	Mandible, open fracture	DX	ICD-9-CM
802.30	Open fracture of unspecified site of mandible	DX	ICD-9-CM
802.31	Open fracture of condylar process of mandible	DX	ICD-9-CM
802.32	Open fracture of subcondylar process of mandible	DX	ICD-9-CM
802.33	Open fracture of coronoid process of mandible	DX	ICD-9-CM
802.34	Open fracture of unspecified part of ramus of mandible	DX	ICD-9-CM
802.35	Open fracture of angle of jaw	DX	ICD-9-CM
802.36	Open fracture of symphysis of body of mandible	DX	ICD-9-CM
802.37	Open fracture of alveolar border of body of mandible	DX	ICD-9-CM
802.38	Open fracture of other and unspecified part of body of mandible	DX	ICD-9-CM
802.39	Open fracture of multiple sites of mandible	DX	ICD-9-CM
802.4	Malar and maxillary bones, closed fracture	DX	ICD-9-CM
802.5	Malar and maxillary bones, open fracture	DX	ICD-9-CM
802.6	Orbital floor (blow-out), closed fracture	DX	ICD-9-CM
802.7	Orbital floor (blow-out), open fracture	DX	ICD-9-CM
802.8	Other facial bones, closed fracture	DX	ICD-9-CM
802.9	Other facial bones, open fracture	DX	ICD-9-CM
803	Other and unqualified skull fractures	DX	ICD-9-CM
803.0	Other closed skull fracture without mention of intracranial injury	DX	ICD-9-CM
803.00	Other closed skull fracture without mention of intracranial injury, unspecified state of consciousness	DX	ICD-9-CM
803.01	Other closed skull fracture without mention of intracranial injury, no loss of consciousness	DX	ICD-9-CM
803.02	Other closed skull fracture without mention of intracranial injury, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.03	Other closed skull fracture without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.04	Other closed skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
803.05	Other closed skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 308 of 702



CI-	D	C- 1- T	Carla C
Code	Description	Code Type	Code Category
803.06	Other closed skull fracture without mention of intracranial injury, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.09	Other closed skull fracture without mention of intracranial injury, unspecified	DX	ICD-9-CM
803.1	Other closed skull fracture with cerebral laceration and contusion	DX	ICD-9-CM
803.10	Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness	DX	ICD-9-CM
803.11	Other closed skull fracture with cerebral laceration and contusion, no loss of consciousness	DX	ICD-9-CM
803.12	Other closed skull fracture with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.13	Other closed skull fracture with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.14	Other closed skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
803.15	Other closed skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
803.16	Other closed skull fracture with cerebral laceration and contusion, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.19	Other closed skull fracture with cerebral laceration and contusion, unspecified concussion	DX	ICD-9-CM
803.2	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage	DX	ICD-9-CM
803.20	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
803.21	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	DX	ICD-9-CM
803.22	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.23	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.24	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
803.25	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
803.26	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.29	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	DX	ICD-9-CM
803.3	Closed skull fracture with other and unspecified intracranial hemorrhage	DX	ICD-9-CM
803.30	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 309 of 702



Code	Description	Code Type	<b>Code Category</b>
803.31	Other closed skull fracture with other and unspecified intracranial hemorrhage, no loss	DX	ICD-9-CM
	of consciousness		
803.32	Other closed skull fracture with other and unspecified intracranial hemorrhage, brief	DX	ICD-9-CM
002.22	(less than one hour) loss of consciousness	DV	100 0 014
803.33	Other closed skull fracture with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.34	Other closed skull fracture with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
303.34	prolonged (more than 24 hours) loss of consciousness and return to pre-existing	DX	ICD-9-CIVI
	conscious level		
803.35	Other closed skull fracture with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		
	conscious level		
803.36	Other closed skull fracture with other and unspecified intracranial hemorrhage, loss of	DX	ICD-9-CM
	consciousness of unspecified duration		
803.39	Other closed skull fracture with other and unspecified intracranial hemorrhage,	DX	ICD-9-CM
	unspecified concussion		
803.4	Other closed skull fracture with intracranial injury of other and unspecified nature	DX	ICD-9-CM
803.40	Other closed skull fracture with intracranial injury of other and unspecified nature,	DX	ICD-9-CM
803.41	unspecified state of consciousness Other closed skull fracture with intracranial injury of other and unspecified nature, no	DX	ICD-9-CM
303.41	loss of consciousness	DX	ICD-9-CIVI
803.42	Other closed skull fracture with intracranial injury of other and unspecified nature, brief	DX	ICD-9-CM
	(less than one hour) loss of consciousness		.02 5 6
803.43	Other closed skull fracture with intracranial injury of other and unspecified nature,	DX	ICD-9-CM
	moderate (1-24 hours) loss of consciousness		
303.44	Other closed skull fracture with intracranial injury of other and unspecified nature,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing		
	conscious level		
803.45	Other closed skull fracture with intracranial injury of other and unspecified nature,	DX	ICD-9-CM
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		
	conscious level		
803.46	Other closed skull fracture with intracranial injury of other and unspecified nature, loss	DX	ICD-9-CM
	of consciousness of unspecified duration		
803.49	Other closed skull fracture with intracranial injury of other and unspecified nature,	DX	ICD-9-CM
002.5	unspecified concussion	DV	100.0.014
803.5	Other open skull fracture without mention of intracranial injury	DX	ICD-9-CM
803.50	Other open skull fracture without mention of injury, state of consciousness unspecified	DX	ICD-9-CM
303.51	Other open skull fracture without mention of intracranial injury, no loss of	DX	ICD-9-CM
303.52	Other open skull fracture without mention of intracranial injury, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.53	Other open skull fracture without mention of intracranial injury, moderate (1-24 hours)	DX	ICD-9-CM
303.33	loss of consciousness	DΛ	ICD-3-CIVI

cder\_mpl2p\_wp047 Page 310 of 702



Code	Description	Code Type	Code Category
803.54	Other open skull fracture without mention of intracranial injury, prolonged (more than	DX	ICD-9-CM
	24 hours) loss of consciousness and return to pre-existing conscious level		
803.55	Other open skull fracture without mention of intracranial injury, prolonged (more than	DX	ICD-9-CM
	24 hours) loss of consciousness, without return to pre-existing conscious level		
803.56	Other open skull fracture without mention of intracranial injury, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.59	Other open skull fracture without mention of intracranial injury, unspecified concussion	DX	ICD-9-CM
803.6	Other open skull fracture with cerebral laceration and contusion	DX	ICD-9-CM
803.60	Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness	DX	ICD-9-CM
803.61	Other open skull fracture with cerebral laceration and contusion, no loss of consciousness	DX	ICD-9-CM
803.62	Other open skull fracture with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.63	Other open skull fracture with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.64	Other open skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
803.65	Other open skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
803.66	Other open skull fracture with cerebral laceration and contusion, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.69	Other open skull fracture with cerebral laceration and contusion, unspecified	DX	ICD-9-CM
803.7	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage	DX	ICD-9-CM
803.70	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
803.71	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	DX	ICD-9-CM
803.72	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.73	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.74	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
803.75	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
803.76	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.79	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	DX	ICD-9-CM
803.8	Other open skull fracture with other and unspecified intracranial hemorrhage	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 311 of 702



Code	Description	Code Type	Code Category
	Description Other and shall fractive with other and wear sified introduced home where	Code Type	Code Category
803.80	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness	DX	ICD-9-CM
803.81	Other open skull fracture with other and unspecified intracranial hemorrhage, no loss of consciousness	DX	ICD-9-CM
803.82	Other open skull fracture with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.83	Other open skull fracture with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.84	Other open skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing	DX	ICD-9-CM
803.85	Other open skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
803.86	Other open skull fracture with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.89	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified concussion	DX	ICD-9-CM
803.9	Other open skull fracture with intracranial injury of other and unspecified nature	DX	ICD-9-CM
803.90	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness	DX	ICD-9-CM
803.91	Other open skull fracture with intracranial injury of other and unspecified nature, no loss of consciousness	DX	ICD-9-CM
803.92	Other open skull fracture with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	DX	ICD-9-CM
803.93	Other open skull fracture with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	DX	ICD-9-CM
803.94	Other open skull fracture with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	DX	ICD-9-CM
803.95	Other open skull fracture with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	DX	ICD-9-CM
803.96	Other open skull fracture with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	DX	ICD-9-CM
803.99	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified concussion	DX	ICD-9-CM
804	Multiple fractures involving skull or face with other bones	DX	ICD-9-CM
804.0	Closed fractures involving skull or face with other bones, without mention of intracranial injury	DX	ICD-9-CM
804.00	Closed fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness	DX	ICD-9-CM
804.01	Closed fractures involving skull or face with other bones, without mention of intracranial injury, no loss of consciousness	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 312 of 702



tins requ			
Code	Description	Code Type	<b>Code Category</b>
804.02	Closed fractures involving skull or face with other bones, without mention of	DX	ICD-9-CM
	intracranial injury, brief (less than one hour) loss of consciousness		
804.03	Closed fractures involving skull or face with other bones, without mention of	DX	ICD-9-CM
	intracranial injury, moderate (1-24 hours) loss of consciousness		
804.04	Closed fractures involving skull or face with other bones, without mention or	DX	ICD-9-CM
	intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to		
	pre-existing conscious level		
804.05	Closed fractures involving skull of face with other bones, without mention of	DX	ICD-9-CM
	intracranial injury, prolonged (more than 24 hours) loss of consciousness, without		
	return to pre-existing conscious level		
804.06	Closed fractures involving skull of face with other bones, without mention of	DX	ICD-9-CM
	intracranial injury, loss of consciousness of unspecified duration		
804.09	Closed fractures involving skull of face with other bones, without mention of	DX	ICD-9-CM
	intracranial injury, unspecified concussion		
804.1	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion		
804.10	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, unspecified state of consciousness		
804.11	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, no loss of consciousness		
804.12	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, brief (less than one hour) loss of consciousness	5.7	100.0.014
804.13	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
20444	contusion, moderate (1-24 hours) loss of consciousness	DV	100.0.014
804.14	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-		
20445	existing conscious level	DV	100.0.014
804.15	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre	!-	
00446	existing conscious level	DV	100.0.014
804.16	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
00440	contusion, loss of consciousness of unspecified duration	DV	100.0.014
804.19	Closed fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
0043	contusion, unspecified concussion	DV	ICD O CM
804.2	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
004.20	and extradural hemorrhage	DV	ICD O CM
804.20	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
204.24	and extradural hemorrhage, unspecified state of consciousness	DV	ICD O CM
804.21	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
004.22	and extradural hemorrhage, no loss of consciousness	DV	ICD O CM
804.22	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, brief (less than one hour) loss of consciousness		

cder\_mpl2p\_wp047 Page 313 of 702



Code	Description	Code Type	Code Category
804.23	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
004.23	and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	DX	ICD-3-CIVI
804.24	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
004.24	and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and	DX	ICD 5 CIVI
	return to pre-existing conscious level		
804.25	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
004.23	and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness,	DX	ICD 5 CIVI
	without return to pre-existing conscious level		
804.26	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
004.20	and extradural hemorrhage, loss of consciousness of unspecified duration	DX.	ICD 5 CIVI
804.29	Closed fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
504.25	and extradural hemorrhage, unspecified concussion	DX	ICD 5 CIVI
804.3	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
004.5	intracranial hemorrhage	DX	ICD 5 CIVI
804.30	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
004.50	intracranial hemorrhage, unspecified state of consciousness	DX.	ICD 5 CIVI
804.31	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
001.01	intracranial hemorrhage, no loss of consciousness	5A	102 3 011
804.32	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
004.52	intracranial hemorrhage, brief (less than one hour) loss of consciousness		
804.33	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, moderate (1-24 hours) loss of consciousness		
804.34	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and		
	return to preexisting conscious level		
804.35	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness,		
	without return to pre-existing conscious level		
804.36	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, loss of consciousness of unspecified duration		
804.39	Closed fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, unspecified concussion		
804.4	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature		
804.40	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, unspecified state of consciousness		
804.41	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, no loss of consciousness		
804.42	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, brief (less than one hour) loss of consciousness		
804.43	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, moderate (1-24 hours) loss of consciousness		

cder\_mpl2p\_wp047 Page 314 of 702



Code	Description	Code Type	Code Category
804.44	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, prolonged (more than 24 hours) loss of consciousness		
	and return to pre-existing conscious level		
804.45	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, prolonged (more than 24 hours) loss of consciousness,		
	without return to pre-existing conscious level		
804.46	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, loss of consciousness of unspecified duration		
804.49	Closed fractures involving skull or face with other bones, with intracranial injury of	DX	ICD-9-CM
	other and unspecified nature, unspecified concussion		
804.5	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
	injury		
804.50	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
	injury, unspecified state of consciousness		
804.51	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
004.50	injury, no loss of consciousness	5.7	100.0.014
804.52	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
004.53	injury, brief (less than one hour) loss of consciousness	DV	100 0 014
804.53	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
904 F4	injury, moderate (1-24 hours) loss of consciousness	DV	ICD 0 CM
804.54	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
	injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
804.55	Open fractures involving skull or face with other bones, without mention of intracranial	DV	ICD-9-CM
004.33	injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-	DX	ICD-3-CIVI
	existing conscious level		
804.56	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
504.50	injury, loss of consciousness of unspecified duration	DX.	ICD 5 CIVI
804.59	Open fractures involving skull or face with other bones, without mention of intracranial	DX	ICD-9-CM
	injury, unspecified concussion		
804.6	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion		
804.60	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, unspecified state of consciousness		
804.61	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, no loss of consciousness		
804.62	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, brief (less than one hour) loss of consciousness		
804.63	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, moderate (1-24 hours) loss of consciousness		
804.64	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-		
	existing conscious level		

cder\_mpl2p\_wp047 Page 315 of 702



Code	Description	Code Type	Code Category
804.65	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-	-	
	existing conscious level		
304.66	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, loss of consciousness of unspecified duration		
804.69	Open fractures involving skull or face with other bones, with cerebral laceration and	DX	ICD-9-CM
	contusion, unspecified concussion		
804.7	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage		
804.70	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, unspecified state of consciousness		
804.71	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, no loss of consciousness		
804.72	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, brief (less than one hour) loss of consciousness		
804.73	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, moderate (1-24 hours) loss of consciousness		
804.74	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and		
	return to pre-existing conscious level		
804.75	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness,		
	without return to pre-existing conscious level		
804.76	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, loss of consciousness of unspecified duration		
804.79	Open fractures involving skull or face with other bones with subarachnoid, subdural,	DX	ICD-9-CM
	and extradural hemorrhage, unspecified concussion		
804.8	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage		
804.80	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, unspecified state of consciousness		
804.81	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, no loss of consciousness		
804.82	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, brief (less than one hour) loss of consciousness		
804.83	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, moderate (1-24 hours) loss of consciousness		
804.84	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and		
	return to pre-existing conscious level		
804.85	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness,		
	without return to pre-existing conscious level		

cder\_mpl2p\_wp047 Page 316 of 702



Code	Description	Code Type	Code Category
804.86	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, loss of consciousness of unspecified duration		
804.89	Open fractures involving skull or face with other bones, with other and unspecified	DX	ICD-9-CM
	intracranial hemorrhage, unspecified concussion		
804.9	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature		
804.90	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, unspecified state of consciousness		
804.91	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, no loss of consciousness		
804.92	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, brief (less than one hour) loss of consciousness		
804.93	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, moderate (1-24 hours) loss of consciousness		
804.94	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, prolonged (more than 24 hours) loss of consciousness and		
	return to pre-existing conscious level		
804.95	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without		
	return to pre-existing level		
804.96	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
	and unspecified nature, loss of consciousness of unspecified duration	51/	100.0.014
804.99	Open fractures involving skull or face with other bones, with intracranial injury of other	DX	ICD-9-CM
205	and unspecified nature, unspecified concussion	DV	100.0.014
805	Fracture of vertebral column without mention of spinal cord injury	DX	ICD-9-CM
805.0	Closed fracture of cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.00	Closed fracture of cervical vertebra, unspecified level without mention of spinal cord	DX	ICD-9-CM
005.04	injury	DV	100.0.014
805.01	Closed fracture of first cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.02	Closed fracture of second cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.03	Closed fracture of third cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.04	Closed fracture of fourth cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.05	Closed fracture of fifth cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.06	Closed fracture of sixth cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.07	Closed fracture of seventh cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.08	Closed fracture of multiple cervical vertebrae without mention of spinal cord injury	DX	ICD-9-CM
805.1	Open fracture of cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.10	Open fracture of cervical vertebra, unspecified level without mention of spinal cord	DX	ICD-9-CM
ONE 11	injury Open fracture of first cervical vertebra without mention of spinal cord injury	DV	ICD O CM
805.11 805.12	Open fracture of first cervical vertebra without mention of spinal cord injury  Open fracture of second cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.12 805.13	Open fracture of third cervical vertebra without mention of spinal cord injury	DX DX	ICD-9-CM ICD-9-CM
805.13	Open fracture of fourth cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
003.14	Open fracture of fourth cervical vertebra without mention of spinal cord injury	DΛ	ICD-3-CIVI

cder\_mpl2p\_wp047 Page 317 of 702



Code	Description	Code Type	Code Category
805.15	Open fracture of fifth cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.16	Open fracture of sixth cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.17	Open fracture of seventh cervical vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.18	Open fracture of multiple cervical vertebrae without mention of spinal cord injury	DX	ICD-9-CM
805.2	Closed fracture of dorsal (thoracic) vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.3	Open fracture of dorsal (thoracic) vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.4	Closed fracture of lumbar vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.5	Open fracture of lumbar vertebra without mention of spinal cord injury	DX	ICD-9-CM
805.6	Closed fracture of sacrum and coccyx without mention of spinal cord injury	DX	ICD-9-CM
805.7	Open fracture of sacrum and coccyx without mention of spinal cord injury	DX	ICD-9-CM
805.8	Closed fracture of unspecified part of vertebral column without mention of spinal cord injury	DX	ICD-9-CM
805.9	Open fracture of unspecified part of vertebral column without mention of spinal cord injury	DX	ICD-9-CM
806	Fracture of vertebral column with spinal cord injury	DX	ICD-9-CM
806.0	Closed fracture of cervical vertebra with spinal cord injury	DX	ICD-9-CM
806.00	Closed fracture of C1-C4 level with unspecified spinal cord injury	DX	ICD-9-CM
806.01	Closed fracture of C1-C4 level with complete lesion of cord	DX	ICD-9-CM
806.02	Closed fracture of C1-C4 level with anterior cord syndrome	DX	ICD-9-CM
806.03	Closed fracture of C1-C4 level with central cord syndrome	DX	ICD-9-CM
806.04	Closed fracture of C1-C4 level with other specified spinal cord injury	DX	ICD-9-CM
806.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	DX	ICD-9-CM
806.06	Closed fracture of C5-C7 level with complete lesion of cord	DX	ICD-9-CM
806.07	Closed fracture of C5-C7 level with anterior cord syndrome	DX	ICD-9-CM
806.08	Closed fracture of C5-C7 level with central cord syndrome	DX	ICD-9-CM
806.09	Closed fracture of C5-C7 level with other specified spinal cord injury	DX	ICD-9-CM
806.1	Open fracture of cervical vertebra with spinal cord injury	DX	ICD-9-CM
806.10	Open fracture of C1-C4 level with unspecified spinal cord injury	DX	ICD-9-CM
806.11	Open fracture of C1-C4 level with complete lesion of cord	DX	ICD-9-CM
806.12	Open fracture of C1-C4 level with anterior cord syndrome	DX	ICD-9-CM
806.13	Open fracture of C1-C4 level with central cord syndrome	DX	ICD-9-CM
806.14	Open fracture of C1-C4 level with other specified spinal cord injury	DX	ICD-9-CM
806.15	Open fracture of C5-C7 level with unspecified spinal cord injury	DX	ICD-9-CM
806.16	Open fracture of C5-C7 level with complete lesion of cord	DX	ICD-9-CM
806.17	Open fracture of C5-C7 level with anterior cord syndrome	DX	ICD-9-CM
806.18	Open fracture of C5-C7 level with central cord syndrome	DX	ICD-9-CM
806.19	Open fracture of C5-C7 level with other specified spinal cord injury	DX	ICD-9-CM
806.2	Closed fracture of dorsal (thoracic) vertebra with spinal cord injury	DX	ICD-9-CM
806.20	Closed fracture of T1-T6 level with unspecified spinal cord injury	DX	ICD-9-CM
806.21	Closed fracture of T1-T6 level with complete lesion of cord	DX	ICD-9-CM
806.22	Closed fracture of T1-T6 level with anterior cord syndrome	DX	ICD-9-CM
806.23	Closed fracture of T1-T6 level with central cord syndrome	DX	ICD-9-CM
806.24	Closed fracture of T1-T6 level with other specified spinal cord injury	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 318 of 702



this Reque			
Code	Description	Code Type	Code Category
806.25	Closed fracture of T7-T12 level with unspecified spinal cord injury	DX	ICD-9-CM
806.26	Closed fracture of T7-T12 level with complete lesion of cord	DX	ICD-9-CM
806.27	Closed fracture of T7-T12 level with anterior cord syndrome	DX	ICD-9-CM
806.28	Closed fracture of T7-T12 level with central cord syndrome	DX	ICD-9-CM
806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	DX	ICD-9-CM
806.3	Open fracture of dorsal vertebra with spinal cord injury	DX	ICD-9-CM
806.30	Open fracture of T1-T6 level with unspecified spinal cord injury	DX	ICD-9-CM
806.31	Open fracture of T1-T6 level with complete lesion of cord	DX	ICD-9-CM
806.32	Open fracture of T1-T6 level with anterior cord syndrome	DX	ICD-9-CM
806.33	Open fracture of T1-T6 level with central cord syndrome	DX	ICD-9-CM
806.34	Open fracture of T1-T6 level with other specified spinal cord injury	DX	ICD-9-CM
806.35	Open fracture of T7-T12 level with unspecified spinal cord injury	DX	ICD-9-CM
806.36	Open fracture of T7-T12 level with complete lesion of cord	DX	ICD-9-CM
806.37	Open fracture of T7-T12 level with anterior cord syndrome	DX	ICD-9-CM
806.38	Open fracture of T7-T12 level with central cord syndrome	DX	ICD-9-CM
806.39	Open fracture of T7-T12 level with other specified spinal cord injury	DX	ICD-9-CM
806.4	Closed fracture of lumbar spine with spinal cord injury	DX	ICD-9-CM
806.5	Open fracture of lumbar spine with spinal cord injury	DX	ICD-9-CM
806.6	Closed fracture of sacrum and coccyx with spinal cord injury	DX	ICD-9-CM
806.60	Closed fracture of sacrum and coccyx with unspecified spinal cord injury	DX	ICD-9-CM
806.61	Closed fracture of sacrum and coccyx with complete cauda equina lesion	DX	ICD-9-CM
806.62	Closed fracture of sacrum and coccyx with other cauda equina injury	DX	ICD-9-CM
806.69	Closed fracture of sacrum and coccyx with other spinal cord injury	DX	ICD-9-CM
806.7	Open fracture of sacrum and coccyx with spinal cord injury	DX	ICD-9-CM
806.70	Open fracture of sacrum and coccyx with unspecified spinal cord injury	DX	ICD-9-CM
806.71	Open fracture of sacrum and coccyx with complete cauda equina lesion	DX	ICD-9-CM
806.72	Open fracture of sacrum and coccyx with other cauda equina injury	DX	ICD-9-CM
806.79	Open fracture of sacrum and coccyx with other spinal cord injury	DX	ICD-9-CM
806.8	Closed fracture of unspecified vertebra with spinal cord injury	DX	ICD-9-CM
806.9	Open fracture of unspecified vertebra with spinal cord injury	DX	ICD-9-CM
807	Fracture of rib(s), sternum, larynx, and trachea	DX	ICD-9-CM
807.0	Closed fracture of rib(s)	DX	ICD-9-CM
807.00	Closed fracture of rib(s), unspecified	DX	ICD-9-CM
807.01	Closed fracture of one rib	DX	ICD-9-CM
807.02	Closed fracture of two ribs	DX	ICD-9-CM
807.03	Closed fracture of three ribs	DX	ICD-9-CM
807.04	Closed fracture of four ribs	DX	ICD-9-CM
807.05	Closed fracture of five ribs	DX	ICD-9-CM
807.06	Closed fracture of six ribs	DX	ICD-9-CM
807.07	Closed fracture of seven ribs	DX	ICD-9-CM
807.08	Closed fracture of eight or more ribs	DX	ICD-9-CM
807.09	Closed fracture of multiple ribs, unspecified	DX	ICD-9-CM
807.1	Open fracture of rib(s)	DX	ICD-9-CM
	a la accompania de complet	-//	.55 5 6141

cder\_mpl2p\_wp047 Page 319 of 702



tills reque			
Code	Description	Code Type	Code Category
807.10	Open fracture of rib(s), unspecified	DX	ICD-9-CM
807.11	Open fracture of one rib	DX	ICD-9-CM
807.12	Open fracture of two ribs	DX	ICD-9-CM
807.13	Open fracture of three ribs	DX	ICD-9-CM
807.14	Open fracture of four ribs	DX	ICD-9-CM
807.15	Open fracture of five ribs	DX	ICD-9-CM
807.16	Open fracture of six ribs	DX	ICD-9-CM
807.17	Open fracture of seven ribs	DX	ICD-9-CM
807.18	Open fracture of eight or more ribs	DX	ICD-9-CM
807.19	Open fracture of multiple ribs, unspecified	DX	ICD-9-CM
807.2	Closed fracture of sternum	DX	ICD-9-CM
807.3	Open fracture of sternum	DX	ICD-9-CM
807.4	Flail chest	DX	ICD-9-CM
807.5	Closed fracture of larynx and trachea	DX	ICD-9-CM
807.6	Open fracture of larynx and trachea	DX	ICD-9-CM
808	Fracture of pelvis	DX	ICD-9-CM
808.0	Closed fracture of acetabulum	DX	ICD-9-CM
808.1	Open fracture of acetabulum	DX	ICD-9-CM
808.2	Closed fracture of pubis	DX	ICD-9-CM
808.3	Open fracture of pubis	DX	ICD-9-CM
808.4	Closed fracture of other specified part of pelvis	DX	ICD-9-CM
808.41	Closed fracture of ilium	DX	ICD-9-CM
808.42	Closed fracture of ischium	DX	ICD-9-CM
808.43	Multiple closed pelvic fractures with disruption of pelvic circle	DX	ICD-9-CM
808.44	Multiple closed pelvic fractures without disruption of pelvic circle	DX	ICD-9-CM
808.49	Closed fracture of other specified part of pelvis	DX	ICD-9-CM
808.5	Open fracture of other specified part of pelvis	DX	ICD-9-CM
808.51	Open fracture of ilium	DX	ICD-9-CM
808.52	Open fracture of ischium	DX	ICD-9-CM
808.53	Multiple open pelvic fractures with disruption of pelvic circle	DX	ICD-9-CM
808.54	Multiple open pelvic fractures without disruption of pelvic circle	DX	ICD-9-CM
808.59	Open fracture of other specified part of pelvis	DX	ICD-9-CM
8.808	Unspecified closed fracture of pelvis	DX	ICD-9-CM
808.9	Unspecified open fracture of pelvis	DX	ICD-9-CM
809	III-defined fractures of bones of trunk	DX	ICD-9-CM
809.0	Fracture of bones of trunk, closed	DX	ICD-9-CM
809.1	Fracture of bones of trunk, open	DX	ICD-9-CM
810	Fracture of clavicle	DX	ICD-9-CM
810.0	Closed fracture of clavicle	DX	ICD-9-CM
810.00	Unspecified part of closed fracture of clavicle	DX	ICD-9-CM
810.01	Closed fracture of sternal end of clavicle	DX	ICD-9-CM
810.02	Closed fracture of shaft of clavicle	DX	ICD-9-CM
810.03	Closed fracture of acromial end of clavicle	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 320 of 702



tills reque			
Code	Description	Code Type	Code Category
810.1	Open fracture of clavicle	DX	ICD-9-CM
810.10	Unspecified part of open fracture of clavicle	DX	ICD-9-CM
810.11	Open fracture of sternal end of clavicle	DX	ICD-9-CM
810.12	Open fracture of shaft of clavicle	DX	ICD-9-CM
810.13	Open fracture of acromial end of clavicle	DX	ICD-9-CM
811	Fracture of scapula	DX	ICD-9-CM
811.0	Closed fracture of scapula	DX	ICD-9-CM
811.00	Closed fracture of unspecified part of scapula	DX	ICD-9-CM
811.01	Closed fracture of acromial process of scapula	DX	ICD-9-CM
811.02	Closed fracture of coracoid process of scapula	DX	ICD-9-CM
811.03	Closed fracture of glenoid cavity and neck of scapula	DX	ICD-9-CM
811.09	Closed fracture of other part of scapula	DX	ICD-9-CM
811.1	Open fracture of scapula	DX	ICD-9-CM
811.10	Open fracture of unspecified part of scapula	DX	ICD-9-CM
811.11	Open fracture of acromial process of scapula	DX	ICD-9-CM
811.12	Open fracture of coracoid process	DX	ICD-9-CM
811.13	Open fracture of glenoid cavity and neck of scapula	DX	ICD-9-CM
811.19	Open fracture of other part of scapula	DX	ICD-9-CM
812	Fracture of humerus	DX	ICD-9-CM
812.0	Closed fracture of upper end of humerus	DX	ICD-9-CM
812.00	Closed fracture of unspecified part of upper end of humerus	DX	ICD-9-CM
812.01	Closed fracture of surgical neck of humerus	DX	ICD-9-CM
812.02	Closed fracture of anatomical neck of humerus	DX	ICD-9-CM
812.03	Closed fracture of greater tuberosity of humerus	DX	ICD-9-CM
812.09	Other closed fractures of upper end of humerus	DX	ICD-9-CM
812.1	Open fracture of upper end of humerus	DX	ICD-9-CM
812.10	Open fracture of unspecified part of upper end of humerus	DX	ICD-9-CM
812.11	Open fracture of surgical neck of humerus	DX	ICD-9-CM
812.12	Open fracture of anatomical neck of humerus	DX	ICD-9-CM
812.13	Open fracture of greater tuberosity of humerus		ICD-9-CM
812.19	Other open fracture of upper end of humerus		ICD-9-CM
812.2	Closed fracture of shaft or unspecified part of humerus		ICD-9-CM
812.20	Closed fracture of unspecified part of humerus		ICD-9-CM
812.21	Closed fracture of shaft of humerus		ICD-9-CM
812.3	Open fracture of shaft or unspecified part of humerus		ICD-9-CM
812.30	Open fracture of unspecified part of humerus		ICD-9-CM
812.31	Open fracture of shaft of humerus		ICD-9-CM
812.4	Closed fracture of lower end of humerus		ICD-9-CM
812.40	Closed fracture of unspecified part of lower end of humerus		ICD-9-CM
812.41	Closed fracture of supracondylar humerus		ICD-9-CM
812.42	Closed fracture of lateral condyle of humerus		ICD-9-CM
812.43	Closed fracture of medial condyle of humerus		ICD-9-CM
812.44	Closed fracture of unspecified condyle(s) of humerus		ICD-9-CM

cder\_mpl2p\_wp047 Page 321 of 702



Code	Description	Code Type	Code Category
812.49	Other closed fracture of lower end of humerus		ICD-9-CM
812.5	Open fracture of lower end of humerus		ICD-9-CM
812.50	Open fracture of unspecified part of lower end of humerus		ICD-9-CM
812.51	Open fracture of supracondylar humerus		ICD-9-CM
812.52	Open fracture of lateral condyle of humerus		ICD-9-CM
812.53	Open fracture of medial condyle of humerus		ICD-9-CM
812.54	Open fracture of unspecified condyle(s) of humerus		ICD-9-CM
812.59	Other open fracture of lower end of humerus		ICD-9-CM
813	Fracture of radius and ulna		ICD-9-CM
813.0	Closed fracture of upper end of radius and ulna		ICD-9-CM
813.00	Unspecified fracture of radius and ulna, upper end of forearm, closed		ICD-9-CM
813.01	Closed fracture of olecranon process of ulna		ICD-9-CM
813.02	Closed fracture of coronoid process of ulna		ICD-9-CM
813.03	Closed Monteggia's fracture		ICD-9-CM
813.04	Other and unspecified closed fractures of proximal end of ulna (alone)		ICD-9-CM
813.05	Closed fracture of head of radius		ICD-9-CM
813.06	Closed fracture of neck of radius		ICD-9-CM
813.07	Other and unspecified closed fractures of proximal end of radius (alone)		ICD-9-CM
813.08	Closed fracture of radius with ulna, upper end (any part)		ICD-9-CM
813.1	Open fracture of upper end of radius and ulna		ICD-9-CM
813.10	Unspecified open fracture of upper end of forearm		ICD-9-CM
813.11	Open fracture of olecranon process of ulna		ICD-9-CM
813.12	Open fracture of coronoid process of ulna		ICD-9-CM
813.13	Open Monteggia's fracture		ICD-9-CM
813.14	Other and unspecified open fractures of proximal end of ulna (alone)		ICD-9-CM
813.15	Open fracture of head of radius		ICD-9-CM
813.16	Open fracture of neck of radius		ICD-9-CM
813.17	Other and unspecified open fractures of proximal end of radius (alone)		ICD-9-CM
813.18	Open fracture of radius with ulna, upper end (any part)		ICD-9-CM
813.2	Closed fracture of shaft of radius and ulna		ICD-9-CM
813.20	Unspecified closed fracture of shaft of radius or ulna		ICD-9-CM
813.21	Closed fracture of shaft of radius (alone)		ICD-9-CM
813.22	Closed fracture of shaft of ulna (alone)		ICD-9-CM
813.23	Closed fracture of shaft of radius with ulna		ICD-9-CM
813.3	Open fracture of shaft of radius and ulna		ICD-9-CM
813.30	Unspecified open fracture of shaft of radius or ulna		ICD-9-CM
813.31	Open fracture of shaft of radius (alone)		ICD-9-CM
813.32	Open fracture of shaft of ulna (alone)		ICD-9-CM
813.33	Open fracture of shaft of radius with ulna		ICD-9-CM
813.4	Closed fracture of lower end of radius and ulna		ICD-9-CM
813.40	Unspecified closed fracture of lower end of forearm		ICD-9-CM
813.41	Closed Colles' fracture		ICD-9-CM
813.42	Other closed fractures of distal end of radius (alone)		ICD-9-CM

cder\_mpl2p\_wp047 Page 322 of 702



Code	Description	Code Type	Code Category
813.43	Closed fracture of distal end of ulna (alone)		ICD-9-CM
813.44	Closed fracture of lower end of radius with ulna		ICD-9-CM
813.45	Torus fracture of radius (alone)		ICD-9-CM
813.46	Torus fracture of ulna (alone)		ICD-9-CM
813.47	Torus fracture of radius and ulna		ICD-9-CM
813.5	Open fracture of lower end of radius and ulna		ICD-9-CM
813.50	Unspecified open fracture of lower end of forearm		ICD-9-CM
813.51	Open Colles' fracture		ICD-9-CM
813.52	Other open fractures of distal end of radius (alone)		ICD-9-CM
813.53	Open fracture of distal end of ulna (alone)		ICD-9-CM
813.54	Open fracture of lower end of radius with ulna		ICD-9-CM
813.8	Closed fracture of unspecified part of radius with ulna		ICD-9-CM
813.80	Closed fracture of unspecified part of forearm		ICD-9-CM
813.81	Closed fracture of unspecified part of radius (alone)		ICD-9-CM
813.82	Closed fracture of unspecified part of ulna (alone)		ICD-9-CM
813.83	Closed fracture of unspecified part of radius with ulna		ICD-9-CM
813.9	Open fracture of unspecified part of radius with ulna		ICD-9-CM
813.90	Open fracture of unspecified part of forearm		ICD-9-CM
813.91	Open fracture of unspecified part of radius (alone)		ICD-9-CM
813.92	Open fracture of unspecified part of ulna (alone)		ICD-9-CM
813.93	Open fracture of unspecified part of radius with ulna		ICD-9-CM
818	III-defined fractures of upper limb		ICD-9-CM
818.0	III-defined closed fractures of upper limb		ICD-9-CM
818.1	III-defined open fractures of upper limb		ICD-9-CM
819	Multiple fractures involving both upper limbs, and upper limb with rib(s) and sternum		ICD-9-CM
819.0	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum		ICD-9-CM
819.1			ICD-9-CM
019.1	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum		ICD-9-CIVI
820	Fracture of neck of femur		ICD-9-CM
820.0	Closed transcervical fracture		ICD-9-CM
820.00	Closed fracture of unspecified intracapsular section of neck of femur		ICD-9-CM
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur		ICD-9-CM
820.02	Closed fracture of midcervical section of femur		ICD-9-CM
820.03	Closed fracture of base of neck of femur		ICD-9-CM
820.09	Other closed transcervical fracture of femur		ICD-9-CM
820.1	Open transcervical fracture		ICD-9-CM
820.10	Open fracture of unspecified intracapsular section of neck of femur		ICD-9-CM
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur		ICD-9-CM
820.12	Open fracture of midcervical section of femur		ICD-9-CM
820.13	Open fracture of base of neck of femur		ICD-9-CM
820.19	Other open transcervical fracture of femur		ICD-9-CM
820.2	Closed pertrochanteric fracture of femur		ICD-9-CM

cder\_mpl2p\_wp047 Page 323 of 702



tins reque	<u> </u>		
Code	Description	Code Type	Code Category
820.20	Closed fracture of unspecified trochanteric section of femur		ICD-9-CM
820.21	Closed fracture of intertrochanteric section of femur		ICD-9-CM
820.22	Closed fracture of subtrochanteric section of femur		ICD-9-CM
820.3	Open pertrochanteric fracture of femur		ICD-9-CM
820.30	Open fracture of unspecified trochanteric section of femur		ICD-9-CM
820.31	Open fracture of intertrochanteric section of femur		ICD-9-CM
820.32	Open fracture of subtrochanteric section of femur		ICD-9-CM
820.8	Closed fracture of unspecified part of neck of femur		ICD-9-CM
820.9	Open fracture of unspecified part of neck of femur		ICD-9-CM
821	Fracture of other and unspecified parts of femur		ICD-9-CM
821.0	Closed fracture of shaft or unspecified part of femur		ICD-9-CM
821.00	Closed fracture of unspecified part of femur		ICD-9-CM
821.01	Closed fracture of shaft of femur		ICD-9-CM
821.1	Open fracture of shaft or unspecified part of femur		ICD-9-CM
821.10	Open fracture of unspecified part of femur		ICD-9-CM
821.11	Open fracture of shaft of femur		ICD-9-CM
821.2	Closed fracture of lower end of femur		ICD-9-CM
821.20	Closed fracture of unspecified part of lower end of femur		ICD-9-CM
821.21	Closed fracture of femoral condyle		ICD-9-CM
821.22	Closed fracture of lower epiphysis of femur		ICD-9-CM
821.23	Closed supracondylar fracture of femur		ICD-9-CM
821.29	Other closed fracture of lower end of femur		ICD-9-CM
821.3	Open fracture of lower end of femur		ICD-9-CM
821.30	Open fracture of unspecified part of lower end of femur		ICD-9-CM
821.31	Open fracture of femoral condyle		ICD-9-CM
821.32	Open fracture of lower epiphysis of femur		ICD-9-CM
821.33	Open supracondylar fracture of femur		ICD-9-CM
821.39	Other open fracture of lower end of femur		ICD-9-CM
822	Fracture of patella		ICD-9-CM
822.0	Closed fracture of patella		ICD-9-CM
822.1	Open fracture of patella		ICD-9-CM
823	Fracture of tibia and fibula		ICD-9-CM
823.0	Closed fracture of upper end of tibia and fibula		ICD-9-CM
823.00	Closed fracture of upper end of tibia		ICD-9-CM
823.01	Closed fracture of upper end of fibula		ICD-9-CM
823.02	Closed fracture of upper end of fibula with tibia		ICD-9-CM
823.1	Open fracture of upper end of tibia and fibula		ICD-9-CM
823.10	Open fracture of upper end of tibia		ICD-9-CM
823.11	Open fracture of upper end of fibula		ICD-9-CM
823.12	Open fracture of upper end of fibula with tibia		ICD-9-CM
823.2	Closed fracture of shaft of tibia and fibula		ICD-9-CM
823.20	Closed fracture of shaft of tibia		ICD-9-CM
823.21	Closed fracture of shaft of fibula		ICD-9-CM

cder\_mpl2p\_wp047 Page 324 of 702



Code	Description	Code Type	Code Category
823.22	Closed fracture of shaft of fibula with tibia		ICD-9-CM
823.3	Open fracture of shaft of tibia and fibula		ICD-9-CM
823.30	Open fracture of shaft of tibia		ICD-9-CM
823.31	Open fracture of shaft of fibula		ICD-9-CM
823.32	Open fracture of shaft of fibula with tibia		ICD-9-CM
823.4	Torus fracture of tibia and fibula		ICD-9-CM
823.40	Torus fracture of tibia alone		ICD-9-CM
823.41	Torus fracture of fibula alone		ICD-9-CM
823.42	Torus fracture of fibula with tibia		ICD-9-CM
823.8	Closed fracture of unspecified part of tibia and fibula		ICD-9-CM
823.80	Closed fracture of unspecified part of tibia		ICD-9-CM
823.81	Closed fracture of unspecified part of fibula		ICD-9-CM
823.82	Closed fracture of unspecified part of fibula with tibia		ICD-9-CM
823.9	Open fracture of unspecified part of tibia and fibula		ICD-9-CM
823.90	Open fracture of unspecified part of tibia		ICD-9-CM
823.91	Open fracture of unspecified part of fibula		ICD-9-CM
823.92	Open fracture of unspecified part of fibula with tibia		ICD-9-CM
824	Fracture of ankle		ICD-9-CM
824.0	Closed fracture of medial malleolus		ICD-9-CM
824.1	Open fracture of medial malleolus		ICD-9-CM
824.2	Closed fracture of lateral malleolus		ICD-9-CM
824.3	Open fracture of lateral malleolus		ICD-9-CM
824.4	Closed bimalleolar fracture		ICD-9-CM
824.5	Open bimalleolar fracture		ICD-9-CM
824.6	Closed trimalleolar fracture		ICD-9-CM
824.7	Open trimalleolar fracture		ICD-9-CM
824.8	Unspecified closed fracture of ankle		ICD-9-CM
824.9	Unspecified open fracture of ankle		ICD-9-CM
827	Other, multiple, and ill-defined fractures of lower limb		ICD-9-CM
827.0	Other, multiple and ill-defined closed fractures of lower limb		ICD-9-CM
827.1	Other, multiple and ill-defined open fractures of lower limb		ICD-9-CM
828	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum		ICD-9-CM
828.0	Multiple closed fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum		ICD-9-CM
828.1	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s)		ICD-9-CM
	with rib(s) and sternum, open		
829	Fracture of unspecified bones		ICD-9-CM
829.0	Closed fracture of unspecified bone		ICD-9-CM
829.1	Open fracture of unspecified bone		ICD-9-CM
860	Traumatic pneumothorax and hemothorax		ICD-9-CM
860.0	Traumatic pneumothorax without mention of open wound into thorax		ICD-9-CM
860.1	Traumatic pneumothorax with open wound into thorax		ICD-9-CM

cder\_mpl2p\_wp047 Page 325 of 702



Code	Description	Code Type	Code Category
860.2	Traumatic hemothorax without mention of open wound into thorax		ICD-9-CM
860.3	Traumatic hemothorax with open wound into thorax		ICD-9-CM
860.4	Traumatic pneumohemothorax without mention of open wound into thorax		ICD-9-CM
860.5	Traumatic pneumohemothorax with open wound into thorax		ICD-9-CM
862.0	Diaphragm injury without mention of open wound into cavity		ICD-9-CM
862.1	Diaphragm injury with open wound into cavity		ICD-9-CM
862.8	Injury to multiple and unspecified intrathoracic organs without mention of open wound into cavity		ICD-9-CM
862.9	Injury to multiple and unspecified intrathoracic organs with open wound into cavity		ICD-9-CM
863.0	Stomach injury without mention of open wound into cavity		ICD-9-CM
863.1	Stomach injury with open wound into cavity		ICD-9-CM
863.2	Small intestine injury without mention of open wound into cavity		ICD-9-CM
863.20	Small intestine injury, unspecified site, without mention of open wound into cavity		ICD-9-CM
863.21	Duodenum injury without mention of open wound into cavity		ICD-9-CM
863.29	Other injury to small intestine without mention of open wound into cavity		ICD-9-CM
863.3	Small intestine injury with open wound into cavity		ICD-9-CM
863.30	Small intestine injury, unspecified site, with open wound into cavity		ICD-9-CM
863.31	Duodenum injury with open wound into cavity		ICD-9-CM
863.39	Other injury to small intestine with open wound into cavity		ICD-9-CM
863.4	Colon or rectal injury without mention of open wound into cavity		ICD-9-CM
863.40	Colon injury unspecified site, without mention of open wound into cavity		ICD-9-CM
863.41	Ascending (right) colon injury without mention of open wound into cavity		ICD-9-CM
863.42	Transverse colon injury without mention of open wound into cavity		ICD-9-CM
863.43	Descending (left) colon injury without mention of open wound into cavity		ICD-9-CM
863.44	Sigmoid colon injury without mention of open wound into cavity		ICD-9-CM
863.45	Rectum injury without mention of open wound into cavity		ICD-9-CM
863.46	Injury to multiple sites in colon and rectum without mention of open wound into cavity		ICD-9-CM
863.49	Other colon and rectum injury, without mention of open wound into cavity		ICD-9-CM
863.5	Injury to colon or rectum with open wound into cavity		ICD-9-CM
863.50	Colon injury, unspecified site, with open wound into cavity		ICD-9-CM
863.51	Ascending (right) colon injury with open wound into cavity		ICD-9-CM
863.52	Transverse colon injury with open wound into cavity		ICD-9-CM
863.53	Descending (left) colon injury with open wound into cavity		ICD-9-CM
863.54	Sigmoid colon injury with open wound into cavity		ICD-9-CM
863.55	Rectum injury with open wound into cavity		ICD-9-CM
863.56	Injury to multiple sites in colon and rectum with open wound into cavity		ICD-9-CM
863.59	Other injury to colon and rectum with open wound into cavity		ICD-9-CM
863.8	Injury to other and unspecified gastrointestinal sites without mention of open wound into cavity		ICD-9-CM
863.80	Gastrointestinal tract injury, unspecified site, without mention of open wound into cavity		ICD-9-CM
863.81	Pancreas head injury without mention of open wound into cavity		ICD-9-CM
863.82	Pancreas body injury without mention of open wound into cavity		ICD-9-CM

cder\_mpl2p\_wp047 Page 326 of 702



Code	Description	Code Type	Code Category
863.83	Pancreas tail injury without mention of open wound into cavity	code Type	ICD-9-CM
863.84	Pancreas injury, multiple and unspecified sites, without mention of open wound into		ICD-9-CM
000.01	cavity		105 5 011
863.85	Appendix injury without mention of open wound into cavity		ICD-9-CM
863.89	Injury to other and unspecified gastrointestinal sites without mention of open wound		ICD-9-CM
	into cavity		
863.9	Injury to other and unspecified gastrointestinal sites, with open wound into cavity		ICD-9-CM
863.90	Gastrointestinal tract injury, unspecified site, with open wound into cavity		ICD-9-CM
863.91	Pancreas head injury with open wound into cavity		ICD-9-CM
863.92	Pancreas body injury with open wound into cavity		ICD-9-CM
863.93	Pancreas tail injury with open wound into cavity		ICD-9-CM
863.94	Pancreas injury, multiple and unspecified sites, with open wound into cavity		ICD-9-CM
863.95	Appendix injury with open wound into cavity		ICD-9-CM
863.99	Injury to other and unspecified gastrointestinal sites with open wound into cavity		ICD-9-CM
864.1	Liver injury with open wound into cavity		ICD-9-CM
864.10	Unspecified liver injury with open wound into cavity		ICD-9-CM
864.11	Liver hematoma and contusion with open wound into cavity		ICD-9-CM
864.12	Liver laceration, minor, with open wound into cavity		ICD-9-CM
864.13	Liver laceration, moderate, with open wound into cavity		ICD-9-CM
864.14	Liver laceration, major, with open wound into cavity		ICD-9-CM
864.15	Liver injury with open wound into cavity, unspecified laceration		ICD-9-CM
864.19	Other liver injury with open wound into cavity		ICD-9-CM
865.1	Spleen injury with open wound into cavity		ICD-9-CM
865.10	Unspecified spleen injury with open wound into cavity		ICD-9-CM
865.11	Spleen hematoma, without rupture of capsule, with open wound into cavity		ICD-9-CM
865.12	Capsular tears to spleen, without major disruption of parenchyma, with open wound into cavity	DX	ICD-9-CM
865.13	Spleen laceration extending into parenchyma, with open wound into cavity	DX	ICD-9-CM
865.14	Massive parenchyma disruption of spleen with open wound into cavity	DX	ICD-9-CM
865.19	Other spleen injury with open wound into cavity	DX	ICD-9-CM
866	Injury to kidney	DX	ICD-9-CM
866.0	Kidney injury without mention of open wound into cavity	DX	ICD-9-CM
866.00	Unspecified kidney injury without mention of open wound into cavity	DX	ICD-9-CM
866.01	Kidney hematoma without rupture of capsule or mention of open wound into cavity	DX	ICD-9-CM
866.02	Kidney laceration without mention of open wound into cavity	DX	ICD-9-CM
866.03	Complete disruption of kidney parenchyma, without mention of open wound into	DX	ICD-9-CM
866.1	Kidney injury with open wound into cavity	DX	ICD-9-CM
866.10	Unspecified kidney injury with open wound into cavity	DX	ICD-9-CM
866.11	Kidney hematoma, without rupture of capsule, with open wound into cavity	DX	ICD-9-CM
866.12	Kidney laceration with open wound into cavity	DX	ICD-9-CM
866.13	Complete disruption of kidney parenchyma, with open wound into cavity	DX	ICD-9-CM
867	Injury to pelvic organs	DX	ICD-9-CM
867.0	Bladder and urethra injury without mention of open wound into cavity	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 327 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
867.1	Bladder and urethra injury with open wound into cavity	DX	ICD-9-CM
867.2	Ureter injury without mention of open wound into cavity	DX	ICD-9-CM
867.3	Ureter injury with open wound into cavity	DX	ICD-9-CM
867.4	Uterus injury without mention of open wound into cavity	DX	ICD-9-CM
867.5	Uterus injury with open wound into cavity	DX	ICD-9-CM
867.6	Injury to other specified pelvic organs without mention of open wound into cavity	DX	ICD-9-CM
867.7	Injury to other specified pelvic organs with open wound into cavity	DX	ICD-9-CM
867.8	Injury to unspecified pelvic organ without mention of open wound into cavity	DX	ICD-9-CM
867.9	Injury to unspecified pelvic organ with open wound into cavity	DX	ICD-9-CM
873.0	Open wound of scalp, without mention of complication	DX	ICD-9-CM
873.1	Open wound of scalp, complicated	DX	ICD-9-CM
875.0	Open wound of chest (wall), without mention of complication	DX	ICD-9-CM
875.1	Open wound of chest (wall), complicated	DX	ICD-9-CM
902.4	Renal blood vessel injury	DX	ICD-9-CM
902.40	Renal vessel(s) injury, unspecified	DX	ICD-9-CM
902.41	Renal artery injury	DX	ICD-9-CM
902.42	Renal vein injury	DX	ICD-9-CM
902.49	Renal blood vessel injury, other	DX	ICD-9-CM
902.55	Uterine artery injury	DX	ICD-9-CM
902.56	Uterine vein injury	DX	ICD-9-CM
902.81	Ovarian artery injury	DX	ICD-9-CM
902.82	Ovarian vein injury	DX	ICD-9-CM
925	Crushing injury of face, scalp, and neck	DX	ICD-9-CM
925.1	Crushing injury of face and scalp	DX	ICD-9-CM
925.2	Crushing injury of neck	DX	ICD-9-CM
926	Crushing injury of trunk	DX	ICD-9-CM
926.0	Crushing injury of external genitalia	DX	ICD-9-CM
926.1	Crushing injury of other specified sites of trunk	DX	ICD-9-CM
926.11	Crushing injury of back	DX	ICD-9-CM
926.12	Crushing injury of buttock	DX	ICD-9-CM
926.19	Crushing injury of other specified sites of trunk	DX	ICD-9-CM
926.8	Crushing injury of multiple sites of trunk	DX	ICD-9-CM
926.9	Crushing injury of unspecified site of trunk	DX	ICD-9-CM
927	Crushing injury of upper limb	DX	ICD-9-CM
927.0	Crushing injury of shoulder and upper arm	DX	ICD-9-CM
927.00	Crushing injury of shoulder region	DX	ICD-9-CM
927.01	Crushing injury of scapular region	DX	ICD-9-CM
927.02	Crushing injury of axillary region	DX	ICD-9-CM
927.03	Crushing injury of upper arm	DX	ICD-9-CM
927.09	Crushing injury of multiple sites of upper arm	DX	ICD-9-CM
927.1	Crushing injury of elbow and forearm	DX	ICD-9-CM
927.10	Crushing injury of forearm	DX	ICD-9-CM
927.11	Crushing injury of elbow	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 328 of 702



	Description	Code Type	Code Category
927.2 C	Crushing injury of wrist and hand(s), except finger(s) alone	DX	ICD-9-CM
927.20 C	Crushing injury of hand(s)	DX	ICD-9-CM
	Crushing injury of wrist	DX	ICD-9-CM
927.3 C	Crushing injury of finger(s)	DX	ICD-9-CM
927.8 C	Crushing injury of multiple sites of upper limb	DX	ICD-9-CM
927.9 C	Crushing injury of unspecified site of upper limb	DX	ICD-9-CM
928 C	Crushing injury of lower limb	DX	ICD-9-CM
928.0 C	Crushing injury of hip and thigh	DX	ICD-9-CM
928.00 C	Crushing injury of thigh	DX	ICD-9-CM
928.01 C	Crushing injury of hip	DX	ICD-9-CM
928.1 C	Crushing injury of knee and lower leg	DX	ICD-9-CM
928.10 C	Crushing injury of lower leg	DX	ICD-9-CM
928.11 C	Crushing injury of knee	DX	ICD-9-CM
928.2 C	Crushing injury of ankle and foot, excluding toe(s) alone	DX	ICD-9-CM
928.20 C	Crushing injury of foot	DX	ICD-9-CM
928.21 C	Crushing injury of ankle	DX	ICD-9-CM
928.3 C	Crushing injury of toe(s)	DX	ICD-9-CM
928.8 C	Crushing injury of multiple sites of lower limb	DX	ICD-9-CM
928.9 C	Crushing injury of unspecified site of lower limb	DX	ICD-9-CM
929 C	Crushing injury of multiple and unspecified sites	DX	ICD-9-CM
929.0 C	Crushing injury of multiple sites, not elsewhere classified	DX	ICD-9-CM
929.9 C	Crushing injury of unspecified site	DX	ICD-9-CM
958.4 T	raumatic shock	DX	ICD-9-CM
958.5 T	raumatic anuria	DX	ICD-9-CM
958.7 T	raumatic subcutaneous emphysema	DX	ICD-9-CM
996.7 C	Other complications of internal prosthetic device, implant, and graft	DX	ICD-9-CM
996.70 C	Other complications due to unspecified device, implant, and graft	DX	ICD-9-CM
996.71 C	Other complications due to heart valve prosthesis	DX	ICD-9-CM
996.72 C	Other complications due to other cardiac device, implant, and graft	DX	ICD-9-CM
996.73 C	Other complications due to renal dialysis device, implant, and graft	DX	ICD-9-CM
996.74 C	Other complications due to other vascular device, implant, and graft	DX	ICD-9-CM
996.75 C	Other complications due to nervous system device, implant, and graft	DX	ICD-9-CM
996.76 C	Other complications due to genitourinary device, implant, and graft	DX	ICD-9-CM
996.77 C	Other complications due to internal joint prosthesis	DX	ICD-9-CM
996.78 C	Other complications due to other internal orthopedic device, implant, and graft	DX	ICD-9-CM
996.79 C	Other complications due to other internal prosthetic device, implant, and graft	DX	ICD-9-CM
998.11 F	Hemorrhage complicating a procedure	DX	ICD-9-CM
998.12 F	Hematoma complicating a procedure	DX	ICD-9-CM
998.2 A	Accidental puncture or laceration during procedure	DX	ICD-9-CM
E805 H	Hit by rolling stock	DX	ICD-9-CM
E805.0 R	Railway employee hit by rolling stock	DX	ICD-9-CM
E805.1 P	Passenger on railway hit by rolling stock	DX	ICD-9-CM
E805.2 P	Pedestrian hit by rolling stock	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 329 of 702



E805.3 Pedal cyclist hit by rolling stock E805.8 Other specified person hit by rolling stock E805.9 Unspecified person hit by rolling stock E870 Accidental cut, puncture, perforation, or hemorrhage during medical care E870.0 Accidental cut, puncture, perforation, or hemorrhage during surgical operation E870.1 Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX D	ICD-9-CM
E805.8 Other specified person hit by rolling stock E805.9 Unspecified person hit by rolling stock E870 Accidental cut, puncture, perforation, or hemorrhage during medical care E870.0 Accidental cut, puncture, perforation, or hemorrhage during surgical operation E870.1 Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX	ICD-9-CM
E805.9 Unspecified person hit by rolling stock E870 Accidental cut, puncture, perforation, or hemorrhage during medical care E870.0 Accidental cut, puncture, perforation, or hemorrhage during surgical operation E870.1 Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
<ul> <li>E870 Accidental cut, puncture, perforation, or hemorrhage during medical care</li> <li>E870.0 Accidental cut, puncture, perforation, or hemorrhage during surgical operation</li> <li>E870.1 Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion</li> <li>E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion</li> <li>E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination</li> <li>E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination</li> <li>E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization</li> </ul>	DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
E870.0 Accidental cut, puncture, perforation, or hemorrhage during surgical operation E870.1 Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX DX DX DX DX DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
E870.1 Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX DX DX DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
E870.2 Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX DX DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM
perfusion  E870.3 Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination  E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination  E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX DX DX DX DX	ICD-9-CM ICD-9-CM ICD-9-CM
E870.4 Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX DX DX DX DX	ICD-9-CM ICD-9-CM
E870.5 Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	DX DX DX DX	ICD-9-CM
tissue, puncture, and catheterization	DX DX DX	ICD-9-CM
·	DX DX	
E870.6 Accidental cut, puncture, perforation, or hemorrhage during heart catheterization	DX DX	
E870.7 Accidental cut, puncture, perforation, or hemorrhage during administration of enema	DX	
E870.8 Accidental cut, puncture, perforation, or hemorrhage during other specified medical		ICD-9-CM
E870.9 Accidental cut, puncture, perforation, or hemorrhage during unspecified medical care	DX	ICD-9-CM
E881 Accidental fall on or from ladders or scaffolding	DX	ICD-9-CM
E881.0 Accidental fall from ladder	DX	ICD-9-CM
E881.1 Accidental fall from scaffolding	DX	ICD-9-CM
E882 Accidental fall from or out of building or other structure	DX	ICD-9-CM
E883 Accidental fall into hole or other opening in surface	DX	ICD-9-CM
E883.0 Accident from diving or jumping into water (swimming pool)	DX	ICD-9-CM
E883.1 Accidental fall into well	DX	ICD-9-CM
E883.2 Accidental fall into storm drain or manhole	DX	ICD-9-CM
E883.9 Accidental fall into other hole or other opening in surface	DX	ICD-9-CM
E922 Accident caused by firearm, and air gun missiles	DX	ICD-9-CM
E922.0 Accident caused by finearit, and all guir missiles  E922.0 Accident caused by handgun	DX	ICD-9-CM
E922.1 Accident caused by handgun  E922.1 Accident caused by shotgun (automatic)	DX	ICD-9-CM
E922.2 Accident caused by shotgun (automatic)	DX	ICD-9-CM
E922.3 Accident caused by military firearms	DX	
	DX	ICD-9-CM ICD-9-CM
,		
	DX	ICD-9-CM
E922.8 Accident caused by other specified firearm missile	DX	ICD-9-CM
E922.9 Accident caused by unspecified firearm missile	DX	ICD-9-CM
E923 Accident caused by explosive material	DX	ICD-9-CM
E923.0 Accident caused by fireworks	DX	ICD-9-CM
E923.1 Accident caused by blasting materials	DX	ICD-9-CM
E923.2 Accident caused by explosive gases	DX	ICD-9-CM
E923.8 Accident caused by other explosive materials	DX	ICD-9-CM
E923.9 Accident caused by unspecified explosive material	DX	ICD-9-CM
E955 Suicide and self-inflicted injury by firearms, air guns and explosives	DX	ICD-9-CM
E955.0 Suicide and self-inflicted injury by handgun	DX	ICD-9-CM
E955.1 Suicide and self-inflicted injury by shotgun	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 330 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tilis Reque	St.		
Code	Description	Code Type	Code Category
E955.2	Suicide and self-inflicted injury by hunting rifle	DX	ICD-9-CM
E955.3	Suicide and self-inflicted injury by military firearms	DX	ICD-9-CM
E955.4	Suicide and self-inflicted injury by other and unspecified firearm	DX	ICD-9-CM
E955.5	Suicide and self-inflicted injury by explosives	DX	ICD-9-CM
E955.6	Suicide and self-inflicted injury by air gun	DX	ICD-9-CM
E955.7	Suicide and self-inflicted injury by paintball gun	DX	ICD-9-CM
E955.9	Suicide and self-inflicted injury by firearms and explosives, unspecified	DX	ICD-9-CM
E960	Fight, brawl, rape	DX	ICD-9-CM
E960.0	Unarmed fight or brawl	DX	ICD-9-CM
E960.1	Rape	DX	ICD-9-CM
E965	Assault by firearms and explosives	DX	ICD-9-CM
E965.0	Assault by handgun	DX	ICD-9-CM
E965.1	Assault by shotgun	DX	ICD-9-CM
E965.2	Assault by hunting rifle	DX	ICD-9-CM
E965.3	Assault by military firearms	DX	ICD-9-CM
E965.4	Assault by other and unspecified firearm	DX	ICD-9-CM
E965.5	Assault by antipersonnel bomb	DX	ICD-9-CM
E965.6	Assault by gasoline bomb	DX	ICD-9-CM
E965.7	Assault by letter bomb	DX	ICD-9-CM
E965.8	Assault by other specified explosive	DX	ICD-9-CM
E965.9	Assault by unspecified explosive	DX	ICD-9-CM
E970	Injury due to legal intervention by firearms	DX	ICD-9-CM
E985	Injury by firearms, air guns and explosives, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.0	Injury by handgun, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.1	Injury by shotgun, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.2	Injury by hunting rifle, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.3	Injury by military firearms, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.4	Injury by other and unspecified firearm, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.5	Injury by explosives, undetermined whether accidentally or purposely inflicted	DX	ICD-9-CM
E985.6	Injury by air gun, undetermined whether accidental, or purposefully inflicted	DX	ICD-9-CM
E985.7	Injury by paintball gun, undetermined whether accidentally or purposefully inflicted	DX	ICD-9-CM
D78.01	Intraoperative hemorrhage and hematoma of the spleen complicating a procedure on the spleen	DX	ICD-10-CM
D78.02	Intraoperative hemorrhage and hematoma of the spleen complicating other procedure	DX	ICD-10-CM
D78.11	Accidental puncture and laceration of the spleen during a procedure on the spleen	DX	ICD-10-CM
D78.12	Accidental puncture and laceration of the spleen during other procedure	DX	ICD-10-CM
D78.21	Postprocedural hemorrhage of the spleen following a procedure on the spleen	DX	ICD-10-CM
D78.22	Postprocedural hemorrhage of the spleen following other procedure	DX	ICD-10-CM
D78.31	Postprocedural hematoma of the spleen following a procedure on the spleen	DX	ICD-10-CM
D78.32	Postprocedural hematoma of the spleen following other procedure	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 331 of 702



tills reque	<del></del>		
Code	Description	Code Type	Code Category
E36.01	Intraoperative hemorrhage and hematoma of an endocrine system organ or structure complicating an endocrine system procedure	DX	ICD-10-CM
E36.02	Intraoperative hemorrhage and hematoma of an endocrine system organ or structure complicating other procedure	DX	ICD-10-CM
E36.11	Accidental puncture and laceration of an endocrine system organ or structure during an endocrine system procedure	DX	ICD-10-CM
E36.12	Accidental puncture and laceration of an endocrine system organ or structure during other procedure	DX	ICD-10-CM
E89.810	Postprocedural hemorrhage of an endocrine system organ or structure following an endocrine system procedure	DX	ICD-10-CM
E89.811	Postprocedural hemorrhage of an endocrine system organ or structure following other procedure	DX	ICD-10-CM
E89.820	Postprocedural hematoma of an endocrine system organ or structure following an endocrine system procedure	DX	ICD-10-CM
E89.821	Postprocedural hematoma of an endocrine system organ or structure following other procedure	DX	ICD-10-CM
G97.31	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure	DX	ICD-10-CM
G97.32	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure	DX	ICD-10-CM
G97.48	Accidental puncture and laceration of other nervous system organ or structure during a nervous system procedure	DX	ICD-10-CM
G97.49	Accidental puncture and laceration of other nervous system organ or structure during other procedure	DX	ICD-10-CM
G97.51	Postprocedural hemorrhage of a nervous system organ or structure following a nervous system procedure	DX	ICD-10-CM
G97.52	Postprocedural hemorrhage of a nervous system organ or structure following other procedure	DX	ICD-10-CM
G97.61	Postprocedural hematoma of a nervous system organ or structure following a nervous system procedure	DX	ICD-10-CM
G97.62	Postprocedural hematoma of a nervous system organ or structure following other procedure	DX	ICD-10-CM
H59.111	Intraoperative hemorrhage and hematoma of right eye and adnexa complicating an ophthalmic procedure	DX	ICD-10-CM
H59.112	Intraoperative hemorrhage and hematoma of left eye and adnexa complicating an ophthalmic procedure	DX	ICD-10-CM
H59.113	Intraoperative hemorrhage and hematoma of eye and adnexa complicating an ophthalmic procedure, bilateral	DX	ICD-10-CM
H59.119	Intraoperative hemorrhage and hematoma of unspecified eye and adnexa complicating an ophthalmic procedure	DX	ICD-10-CM
H59.121	Intraoperative hemorrhage and hematoma of right eye and adnexa complicating other procedure	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 332 of 702



Code	Description	Code Type	Code Category
H59.122	Intraoperative hemorrhage and hematoma of left eye and adnexa complicating other	DX	ICD-10-CM
	procedure		
H59.123	Intraoperative hemorrhage and hematoma of eye and adnexa complicating other	DX	ICD-10-CM
	procedure, bilateral		
H59.129	Intraoperative hemorrhage and hematoma of unspecified eye and adnexa complicating	DX	ICD-10-CM
1150 244	other procedure	DV	ICD 10 CM
H59.211	Accidental puncture and laceration of right eye and adnexa during an ophthalmic procedure	DX	ICD-10-CM
H59.212	Accidental puncture and laceration of left eye and adnexa during an ophthalmic	DX	ICD-10-CM
1133.212	procedure	DX	ICD TO CIVI
H59.213	Accidental puncture and laceration of eye and adnexa during an ophthalmic procedure,	DX	ICD-10-CM
	bilateral		
H59.219	Accidental puncture and laceration of unspecified eye and adnexa during an ophthalmic	DX	ICD-10-CM
	procedure		
H59.221	Accidental puncture and laceration of right eye and adnexa during other procedure	DX	ICD-10-CM
H59.222	Accidental puncture and laceration of left eye and adnexa during other procedure	DX	ICD-10-CM
H59.223	Accidental puncture and laceration of eye and adnexa during other procedure, bilateral	DX	ICD-10-CM
H59.229	Accidental puncture and laceration of unspecified eye and adnexa during other	DX	ICD-10-CM
	procedure		
H59.311	Postprocedural hemorrhage of right eye and adnexa following an ophthalmic procedure		ICD-10-CM
H59.312	Postprocedural hemorrhage of left eye and adnexa following an ophthalmic procedure	DX	ICD-10-CM
H59.313	Postprocedural hemorrhage of eye and adnexa following an ophthalmic procedure, bilateral	DX	ICD-10-CM
H59.319	Postprocedural hemorrhage of unspecified eye and adnexa following an ophthalmic procedure	DX	ICD-10-CM
H59.321	Postprocedural hemorrhage of right eye and adnexa following other procedure	DX	ICD-10-CM
H59.322	Postprocedural hemorrhage of left eye and adnexa following other procedure	DX	ICD-10-CM
H59.323	Postprocedural hemorrhage of eye and adnexa following other procedure, bilateral	DX	ICD-10-CM
H59.329	Postprocedural hemorrhage of unspecified eye and adnexa following other procedure	DX	ICD-10-CM
H59.331	Postprocedural hematoma of right eye and adnexa following an ophthalmic procedure	DX	ICD-10-CM
H59.332	Postprocedural hematoma of left eye and adnexa following an ophthalmic procedure	DX	ICD-10-CM
H59.333	Postprocedural hematoma of eye and adnexa following an ophthalmic procedure, bilateral	DX	ICD-10-CM
H59.339	Postprocedural hematoma of unspecified eye and adnexa following an ophthalmic procedure	DX	ICD-10-CM
H59.341	Postprocedural hematoma of right eye and adnexa following other procedure	DX	ICD-10-CM
H59.342	Postprocedural hematoma of left eye and adnexa following other procedure	DX	ICD-10-CM
H59.343	Postprocedural hematoma of eye and adnexa following other procedure, bilateral	DX	ICD-10-CM
H59.349	Postprocedural hematoma of unspecified eye and adnexa following other procedure	DX	ICD-10-CM
H95.21	Intraoperative hemorrhage and hematoma of ear and mastoid process complicating a	DX	ICD-10-CM
	procedure on the ear and mastoid process		
H95.22	Intraoperative hemorrhage and hematoma of ear and mastoid process complicating other procedure	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 333 of 702



tins requi			
Code	Description	Code Type	Code Category
H95.31	Accidental puncture and laceration of the ear and mastoid process during a procedure on the ear and mastoid process	DX	ICD-10-CM
H95.32	Accidental puncture and laceration of the ear and mastoid process during other procedure	DX	ICD-10-CM
H95.41	Postprocedural hemorrhage of ear and mastoid process following a procedure on the ear and mastoid process	DX	ICD-10-CM
H95.42	Postprocedural hemorrhage of ear and mastoid process following other procedure	DX	ICD-10-CM
H95.51	Postprocedural hematoma of ear and mastoid process following a procedure on the ear and mastoid process	DX	ICD-10-CM
H95.52	Postprocedural hematoma of ear and mastoid process following other procedure	DX	ICD-10-CM
197.410	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac catheterization	DX	ICD-10-CM
197.411	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac bypass	DX	ICD-10-CM
197.418	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other circulatory system procedure	DX	ICD-10-CM
197.42	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other procedure	DX	ICD-10-CM
197.51	Accidental puncture and laceration of a circulatory system organ or structure during a circulatory system procedure	DX	ICD-10-CM
197.52	Accidental puncture and laceration of a circulatory system organ or structure during other procedure	DX	ICD-10-CM
197.610	Postprocedural hemorrhage of a circulatory system organ or structure following a cardiac catheterization	DX	ICD-10-CM
197.611	Postprocedural hemorrhage of a circulatory system organ or structure following cardiac bypass	DX	ICD-10-CM
197.618	Postprocedural hemorrhage of a circulatory system organ or structure following other circulatory system procedure	DX	ICD-10-CM
197.620	Postprocedural hemorrhage of a circulatory system organ or structure following other procedure	DX	ICD-10-CM
197.621	Postprocedural hematoma of a circulatory system organ or structure following other procedure	DX	ICD-10-CM
197.630	Postprocedural hematoma of a circulatory system organ or structure following a cardiac catheterization	DX	ICD-10-CM
197.631	Postprocedural hematoma of a circulatory system organ or structure following cardiac bypass	DX	ICD-10-CM
197.638	Postprocedural hematoma of a circulatory system organ or structure following other circulatory system procedure	DX	ICD-10-CM
J95.61	Intraoperative hemorrhage and hematoma of a respiratory system organ or structure complicating a respiratory system procedure	DX	ICD-10-CM
J95.62	Intraoperative hemorrhage and hematoma of a respiratory system organ or structure complicating other procedure	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 334 of 702



tins reque			
Code	Description	Code Type	Code Category
J95.71	Accidental puncture and laceration of a respiratory system organ or structure during a respiratory system procedure	DX	ICD-10-CM
J95.72	Accidental puncture and laceration of a respiratory system organ or structure during other procedure	DX	ICD-10-CM
J95.830	Postprocedural hemorrhage of a respiratory system organ or structure following a respiratory system procedure	DX	ICD-10-CM
J95.831	Postprocedural hemorrhage of a respiratory system organ or structure following other procedure	DX	ICD-10-CM
J95.860	Postprocedural hematoma of a respiratory system organ or structure following a respiratory system procedure	DX	ICD-10-CM
J95.861	Postprocedural hematoma of a respiratory system organ or structure following other procedure	DX	ICD-10-CM
K91.61	Intraoperative hemorrhage and hematoma of a digestive system organ or structure complicating a digestive system procedure	DX	ICD-10-CM
K91.62	Intraoperative hemorrhage and hematoma of a digestive system organ or structure complicating other procedure	DX	ICD-10-CM
K91.71	Accidental puncture and laceration of a digestive system organ or structure during a digestive system procedure	DX	ICD-10-CM
K91.72	Accidental puncture and laceration of a digestive system organ or structure during other procedure	DX	ICD-10-CM
K91.840	Postprocedural hemorrhage of a digestive system organ or structure following a digestive system procedure	DX	ICD-10-CM
K91.841	Postprocedural hemorrhage of a digestive system organ or structure following other procedure	DX	ICD-10-CM
K91.870	Postprocedural hematoma of a digestive system organ or structure following a digestive system procedure	DX	ICD-10-CM
K91.871	Postprocedural hematoma of a digestive system organ or structure following other procedure	DX	ICD-10-CM
L76.01	Intraoperative hemorrhage and hematoma of skin and subcutaneous tissue complicating a dermatologic procedure	DX	ICD-10-CM
L76.02	Intraoperative hemorrhage and hematoma of skin and subcutaneous tissue complicating other procedure	DX	ICD-10-CM
L76.11	Accidental puncture and laceration of skin and subcutaneous tissue during a dermatologic procedure	DX	ICD-10-CM
L76.12	Accidental puncture and laceration of skin and subcutaneous tissue during other procedure	DX	ICD-10-CM
L76.21	Postprocedural hemorrhage of skin and subcutaneous tissue following a dermatologic procedure	DX	ICD-10-CM
L76.22	Postprocedural hemorrhage of skin and subcutaneous tissue following other procedure	DX	ICD-10-CM
L76.31	Postprocedural hematoma of skin and subcutaneous tissue following a dermatologic procedure	DX	ICD-10-CM
L76.32	Postprocedural hematoma of skin and subcutaneous tissue following other procedure	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 335 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
M96.810	Intraoperative hemorrhage and hematoma of a musculoskeletal structure complicating a musculoskeletal system procedure	DX	ICD-10-CM
M96.811	Intraoperative hemorrhage and hematoma of a musculoskeletal structure complicating	DX	ICD-10-CM
	other procedure		105 10 011
M96.820	Accidental puncture and laceration of a musculoskeletal structure during a	DX	ICD-10-CM
	musculoskeletal system procedure		
M96.821	Accidental puncture and laceration of a musculoskeletal structure during other	DX	ICD-10-CM
	procedure		
M96.830	Postprocedural hemorrhage of a musculoskeletal structure following a musculoskeletal	DX	ICD-10-CM
	system procedure		
M96.831	Postprocedural hemorrhage of a musculoskeletal structure following other procedure	DX	ICD-10-CM
M96.840	Postprocedural hematoma of a musculoskeletal structure following a musculoskeletal	DX	ICD-10-CM
	system procedure		
M96.841	Postprocedural hematoma of a musculoskeletal structure following other procedure	DX	ICD-10-CM
N99.61	Intraoperative hemorrhage and hematoma of a genitourinary system organ or structure	DX	ICD-10-CM
	complicating a genitourinary system procedure	5.4	100 40 014
N99.62	Intraoperative hemorrhage and hematoma of a genitourinary system organ or structure	DX	ICD-10-CM
NOO 71	complicating other procedure	DV	ICD 10 CM
N99.71	Accidental puncture and laceration of a genitourinary system organ or structure during a genitourinary system procedure	DX	ICD-10-CM
N99.72	Accidental puncture and laceration of a genitourinary system organ or structure during	DX	ICD-10-CM
1133.72	other procedure	DX	ICD-10-CIVI
N99.820	Postprocedural hemorrhage of a genitourinary system organ or structure following a	DX	ICD-10-CM
	genitourinary system procedure		.02 20 0
N99.821	Postprocedural hemorrhage of a genitourinary system organ or structure following	DX	ICD-10-CM
	other procedure		
N99.840	Postprocedural hematoma of a genitourinary system organ or structure following a	DX	ICD-10-CM
	genitourinary system procedure		
N99.841	Postprocedural hematoma of a genitourinary system organ or structure following other	DX	ICD-10-CM
	procedure		
S01.00XA	Unspecified open wound of scalp, initial encounter	DX	ICD-10-CM
S01.01XA	Laceration without foreign body of scalp, initial encounter	DX	ICD-10-CM
S01.02XA	Laceration with foreign body of scalp, initial encounter	DX	ICD-10-CM
S01.03XA	Puncture wound without foreign body of scalp, initial encounter	DX	ICD-10-CM
S01.04XA	Puncture wound with foreign body of scalp, initial encounter	DX	ICD-10-CM
S01.05XA	Open bite of scalp, initial encounter	DX	ICD-10-CM
S02.0XXA	Fracture of vault of skull, initial encounter for closed fracture	DX	ICD-10-CM
S02.0XXB	Fracture of vault of skull, initial encounter for open fracture	DX	ICD-10-CM
S02.101A	Fracture of base of skull, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.101B	Fracture of base of skull, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.102A S02.102B	Fracture of base of skull, left side, initial encounter for closed fracture	DX	ICD-10-CM
JUZ.IUZB	Fracture of base of skull, left side, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 336 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	<b>Code Category</b>
S02.109B	Fracture of base of skull, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.110A	Type I occipital condyle fracture, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.110B	Type I occipital condyle fracture, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.111A	Type II occipital condyle fracture, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.111B	Type II occipital condyle fracture, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.112A	Type III occipital condyle fracture, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.112B	Type III occipital condyle fracture, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.113A	Unspecified occipital condyle fracture, initial encounter for closed fracture	DX	ICD-10-CM
S02.113B	Unspecified occipital condyle fracture, initial encounter for open fracture	DX	ICD-10-CM
S02.118A	Other fracture of occiput, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.118B	Other fracture of occiput, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.119A	Unspecified fracture of occiput, initial encounter for closed fracture	DX	ICD-10-CM
S02.119B	Unspecified fracture of occiput, initial encounter for open fracture	DX	ICD-10-CM
S02.11AA	Type I occipital condyle fracture, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11AB	Type I occipital condyle fracture, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.11BA	Type I occipital condyle fracture, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11BB	Type I occipital condyle fracture, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.11CA	Type II occipital condyle fracture, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11CB	Type II occipital condyle fracture, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.11DA	Type II occipital condyle fracture, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11DB	Type II occipital condyle fracture, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.11EA	Type III occipital condyle fracture, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11EB	Type III occipital condyle fracture, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.11FA	Type III occipital condyle fracture, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11FB	Type III occipital condyle fracture, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.11GA	Other fracture of occiput, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11GB	Other fracture of occiput, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.11HA	Other fracture of occiput, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.11HB	Other fracture of occiput, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.19XA	Other fracture of base of skull, initial encounter for closed fracture	DX	ICD-10-CM
S02.19XB	Other fracture of base of skull, initial encounter for open fracture	DX	ICD-10-CM
S02.2XXA	Fracture of nasal bones, initial encounter for closed fracture	DX	ICD-10-CM
S02.2XXB	Fracture of nasal bones, initial encounter for open fracture	DX	ICD-10-CM
S02.30XA	Fracture of orbital floor, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.30XB	Fracture of orbital floor, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.31XA	Fracture of orbital floor, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.31XB	Fracture of orbital floor, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.32XA	Fracture of orbital floor, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.32XB	Fracture of orbital floor, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.400A	Malar fracture, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.400B	Malar fracture, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.401A	Maxillary fracture, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.401B	Maxillary fracture, unspecified side, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 337 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S02.402A	Zygomatic fracture, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.402B	Zygomatic fracture, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.40AA	Malar fracture, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.40AB	Malar fracture, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.40BA	Malar fracture, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.40BB	Malar fracture, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.40CA	Maxillary fracture, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.40CB	Maxillary fracture, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.40DA	Maxillary fracture, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.40DB	Maxillary fracture, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.40EA	Zygomatic fracture, right side, initial encounter for closed fracture	DX	ICD-10-CM
S02.40EB	Zygomatic fracture, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.40FA	Zygomatic fracture, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.40FB	Zygomatic fracture, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.411A	LeFort I fracture, initial encounter for closed fracture	DX	ICD-10-CM
S02.411B	LeFort I fracture, initial encounter for open fracture	DX	ICD-10-CM
S02.412A	LeFort II fracture, initial encounter for closed fracture	DX	ICD-10-CM
S02.412B	LeFort II fracture, initial encounter for open fracture	DX	ICD-10-CM
S02.413A	LeFort III fracture, initial encounter for closed fracture	DX	ICD-10-CM
S02.413B	LeFort III fracture, initial encounter for open fracture	DX	ICD-10-CM
S02.42XA	Fracture of alveolus of maxilla, initial encounter for closed fracture	DX	ICD-10-CM
S02.42XB	Fracture of alveolus of maxilla, initial encounter for open fracture	DX	ICD-10-CM
S02.600A	Fracture of unspecified part of body of mandible, unspecified side, initial encounter for	DX	ICD-10-CM
	closed fracture		
S02.600B	Fracture of unspecified part of body of mandible, unspecified side, initial encounter for	DX	ICD-10-CM
CO2 CO4 A	open fracture	DV	ICD 10 CM
S02.601A	Fracture of unspecified part of body of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.601B	Fracture of unspecified part of body of right mandible, initial encounter for open	DX	ICD-10-CM
S02.602A	Fracture of unspecified part of body of left mandible, initial encounter for closed	DX	ICD-10-CM
S02.602B	Fracture of unspecified part of body of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.609A	Fracture of mandible, unspecified, initial encounter for closed fracture	DX	ICD-10-CM
S02.609B	Fracture of mandible, unspecified, initial encounter for open fracture	DX	ICD-10-CM
S02.610A	Fracture of condylar process of mandible, unspecified side, initial encounter for closed	DX	ICD-10-CM
	fracture		
S02.610B	Fracture of condylar process of mandible, unspecified side, initial encounter for open	DX	ICD-10-CM
	fracture		
S02.611A	Fracture of condylar process of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.611B	Fracture of condylar process of right mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.612A	Fracture of condylar process of left mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.612B	Fracture of condylar process of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.620A	Fracture of subcondylar process of mandible, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 338 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S02.620B	Fracture of subcondylar process of mandible, unspecified side, initial encounter for	DX	ICD-10-CM
	open fracture		
S02.621A	Fracture of subcondylar process of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.621B	Fracture of subcondylar process of right mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.622A	Fracture of subcondylar process of left mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.622B	Fracture of subcondylar process of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.630A	Fracture of coronoid process of mandible, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.630B	Fracture of coronoid process of mandible, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.631A	Fracture of coronoid process of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.631B	Fracture of coronoid process of right mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.632A	Fracture of coronoid process of left mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.632B	Fracture of coronoid process of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.640A	Fracture of ramus of mandible, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.640B	Fracture of ramus of mandible, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.641A	Fracture of ramus of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.641B	Fracture of ramus of right mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.642A	Fracture of ramus of left mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.642B	Fracture of ramus of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.650A	Fracture of angle of mandible, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.650B	Fracture of angle of mandible, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.651A	Fracture of angle of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.651B	Fracture of angle of right mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.652A	Fracture of angle of left mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.652B	Fracture of angle of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.66XA	Fracture of symphysis of mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.66XB	Fracture of symphysis of mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.670A	Fracture of alveolus of mandible, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.670B	Fracture of alveolus of mandible, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.671A	Fracture of alveolus of right mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.671B	Fracture of alveolus of right mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.672A	Fracture of alveolus of left mandible, initial encounter for closed fracture	DX	ICD-10-CM
S02.672B	Fracture of alveolus of left mandible, initial encounter for open fracture	DX	ICD-10-CM
S02.69XA	Fracture of mandible of other specified site, initial encounter for closed fracture	DX	ICD-10-CM
S02.69XB	Fracture of mandible of other specified site, initial encounter for open fracture	DX	ICD-10-CM
S02.80XA	Fracture of other specified skull and facial bones, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S02.80XB	Fracture of other specified skull and facial bones, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S02.81XA	Fracture of other specified skull and facial bones, right side, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 339 of 702



tins reque	<del>,</del>		
Code	Description	Code Type	Code Category
S02.81XB	Fracture of other specified skull and facial bones, right side, initial encounter for open fracture	DX	ICD-10-CM
S02.82XA	Fracture of other specified skull and facial bones, left side, initial encounter for closed fracture	DX	ICD-10-CM
S02.82XB	Fracture of other specified skull and facial bones, left side, initial encounter for open fracture	DX	ICD-10-CM
S02.91XA	Unspecified fracture of skull, initial encounter for closed fracture	DX	ICD-10-CM
S02.91XB	Unspecified fracture of skull, initial encounter for open fracture	DX	ICD-10-CM
S02.92XA	Unspecified fracture of facial bones, initial encounter for closed fracture	DX	ICD-10-CM
S02.92XB	Unspecified fracture of facial bones, initial encounter for open fracture	DX	ICD-10-CM
S06.330A	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.331A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.332A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.333A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.334A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.335A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM
S06.336A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM
S06.337A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.338A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.339A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM
S06.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 340 of 702



Code	Description	Code Type	Code Category
S06.365A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater	DX	ICD-10-CM
	than 24 hours with return to pre-existing conscious level, initial encounter		
S06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater	DX	ICD-10-CM
	than 24 hours without return to pre-existing conscious level with patient surviving,		
	initial encounter		
S06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any	DX	ICD-10-CM
	duration with death due to brain injury prior to regaining consciousness, initial		
	encounter		
S06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any	DX	ICD-10-CM
	duration with death due to other cause prior to regaining consciousness, initial		
505 2504	encounter	DV	ICD 40 CM
S06.369A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of	DX	ICD-10-CM
S06.4X0A	unspecified duration, initial encounter  Epidural hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes to 59 minutes, initial	DX	ICD-10-CM
300.47(27)	encounter		TCD TO CIVI
S06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial	DX	ICD-10-CM
	encounter		
S06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial	DX	ICD-10-CM
S06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to	DX	ICD-10-CM
	pre-existing conscious level, initial encounter		
S06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return	DX	ICD-10-CM
	to pre-existing conscious level with patient surviving, initial encounter		
S06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to	DX	ICD-10-CM
	brain injury prior to regaining consciousness, initial encounter		
S06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to	DX	ICD-10-CM
	other causes prior to regaining consciousness, initial encounter		
S06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial	DX	ICD-10-CM
505 5404	encounter	DV.	100 40 014
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.5X1A	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial	DX	ICD-10-CM
S06.5X2A	encounter  Traumatic subdural homographs with loss of consciousness of 21 minutes to 50	DX	ICD-10-CM
300.3AZA	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DΛ	ICD-10-CIVI
S06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59	DX	ICD-10-CM
300.3X3A	minutes, initial encounter	DX	ICD-10-CIVI
S06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours,	DX	ICD-10-CM
500.57(17)	initial encounter		100 10 0111
S06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with	DX	ICD-10-CM
	return to pre-existing conscious level, initial encounter		
S06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours	DX	ICD-10-CM
	without return to pre-existing conscious level with patient surviving, initial encounter		

cder\_mpl2p\_wp047 Page 341 of 702



tins reque			
Code	Description	Code Type	Code Category
S06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	DX	ICD-10-CM
S06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	DX	ICD-10-CM
S06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM
S06.6X0A	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.6X8A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM
S06.890A	Other specified intracranial injury without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.891A	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.892A	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.893A	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.894A	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.895A	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM
S06.896A	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM
S06.897A	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.898A	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 342 of 702



Code	Description	Code Type	Code Category
S06.899A	Other specified intracranial injury with loss of consciousness of unspecified duration,	DX	ICD-10-CM
	initial encounter		
S06.9X0A	Unspecified intracranial injury without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.9X1A	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial	DX	ICD-10-CM
	encounter		
S06.9X2A	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.9X3A	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.9X4A	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.9X5A	Unspecified intracranial injury with loss of consciousness greater than 24 hours with	DX	ICD-10-CM
	return to pre-existing conscious level, initial encounter		
S06.9X6A	Unspecified intracranial injury with loss of consciousness greater than 24 hours without	DX	ICD-10-CM
	return to pre-existing conscious level with patient surviving, initial encounter		
S06.9X7A	Unspecified intracranial injury with loss of consciousness of any duration with death	DX	ICD-10-CM
	due to brain injury prior to regaining consciousness, initial encounter		
S06.9X8A	Unspecified intracranial injury with loss of consciousness of any duration with death	DX	ICD-10-CM
	due to other cause prior to regaining consciousness, initial encounter		
S06.9X9A	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial	DX	ICD-10-CM
	encounter	51/	100 10 011
S07.0XXA	Crushing injury of face, initial encounter	DX	ICD-10-CM
S07.1XXA	Crushing injury of skull, initial encounter	DX	ICD-10-CM
S07.8XXA	Crushing injury of other parts of head, initial encounter	DX	ICD-10-CM
S07.9XXA	Crushing injury of head, part unspecified, initial encounter	DX	ICD-10-CM
S08.0XXA	Avulsion of scalp, initial encounter	DX	ICD-10-CM
S12.000A	Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.000B	Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.001A	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.001B	Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.01XA	Stable burst fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.01XB	Stable burst fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.02XA	Unstable burst fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.02XB	Unstable burst fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.030A	Displaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.030B	Displaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 343 of 702



tills reque			
Code	Description	Code Type	Code Category
S12.031A	Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.031B	Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.040A	Displaced lateral mass fracture of first cervical vertebra, initial encounter for closed	DX	ICD-10-CM
S12.040B	fracture Displaced lateral mass fracture of first cervical vertebra, initial encounter for open	DX	ICD-10-CM
S12.041A	fracture  Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for closed	DX	ICD-10-CM
S12.041B	fracture  Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for open	DX	ICD-10-CM
S12.090A	fracture Other displaced fracture of first cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.090B	Other displaced fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.091A	Other nondisplaced fracture of first cervical vertebra, initial encounter for closed	DX	ICD-10-CM
S12.091B	Other nondisplaced fracture of first cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.100A	Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.100B	Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.101A	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.101B	Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.110A	Anterior displaced Type II dens fracture, initial encounter for closed fracture	DX	ICD-10-CM
S12.110B	Anterior displaced Type II dens fracture, initial encounter for open fracture	DX	ICD-10-CM
S12.111A	Posterior displaced Type II dens fracture, initial encounter for closed fracture	DX	ICD-10-CM
S12.111B	Posterior displaced Type II dens fracture, initial encounter for open fracture	DX	ICD-10-CM
S12.112A	Nondisplaced Type II dens fracture, initial encounter for closed fracture	DX	ICD-10-CM
S12.112B	Nondisplaced Type II dens fracture, initial encounter for open fracture	DX	ICD-10-CM
S12.120A	Other displaced dens fracture, initial encounter for closed fracture	DX	ICD-10-CM
S12.120B	Other displaced dens fracture, initial encounter for open fracture	DX	ICD-10-CM
S12.121A	Other nondisplaced dens fracture, initial encounter for closed fracture	DX	ICD-10-CM
S12.121B	Other nondisplaced dens fracture, initial encounter for open fracture	DX	ICD-10-CM
S12.130A	Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.130B	Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.131A	Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.131B	Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 344 of 702



Code	Description	Code Type	Code Category
S12.14XA	Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for	DX	ICD-10-CM
	closed fracture		
S12.14XB	Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.150A	Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.150B	Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.151A	Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.151B	Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.190A	Other displaced fracture of second cervical vertebra, initial encounter for closed	DX	ICD-10-CM
S12.190B	Other displaced fracture of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.191A	Other nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.191B	Other nondisplaced fracture of second cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.200A	Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.200B	Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.201A	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.201B	Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.230A	Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.230B	Unspecified traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.231A	Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.231B	Unspecified traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.24XA	Type III traumatic spondylolisthesis of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.24XB	Type III traumatic spondylolisthesis of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.250A	Other traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.250B	Other traumatic displaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 345 of 702



Code	Description	Code Type	Code Category
S12.251A	Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial	DX	ICD-10-CM
	encounter for closed fracture		
S12.251B	Other traumatic nondisplaced spondylolisthesis of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.290A	Other displaced fracture of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.290B	Other displaced fracture of third cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.291A	Other nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.291B	Other nondisplaced fracture of third cervical vertebra, initial encounter for open	DX	ICD-10-CM
S12.300A	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.300B	Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.301A	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.301B	Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.330A	Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.330B	Unspecified traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.331A	Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.331B	Unspecified traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.34XA	Type III traumatic spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.34XB	Type III traumatic spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.350A	Other traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.350B	Other traumatic displaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.351A	Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.351B	Other traumatic nondisplaced spondylolisthesis of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.390A	Other displaced fracture of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.390B	Other displaced fracture of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.391A	Other nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.391B	Other nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 346 of 702



Code	Description	Code Type	Code Category
S12.400A	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S12.400B	Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.401A	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.401B	Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.430A	Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.430B	Unspecified traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.431A	Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.431B	Unspecified traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.44XA	Type III traumatic spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.44XB	Type III traumatic spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.450A	Other traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.450B	Other traumatic displaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.451A	Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.451B	Other traumatic nondisplaced spondylolisthesis of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.490A	Other displaced fracture of fifth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.490B	Other displaced fracture of fifth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.491A	Other nondisplaced fracture of fifth cervical vertebra, initial encounter for closed	DX	ICD-10-CM
S12.491B	Other nondisplaced fracture of fifth cervical vertebra, initial encounter for open	DX	ICD-10-CM
S12.500A	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.500B	Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.501A	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.501B	Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.530A	Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 347 of 702



Code	Description	Code Type	Code Category
S12.530B	Unspecified traumatic displaced spondylolisthesis of sixth cervical vertebra, initial	DX	ICD-10-CM
312.3300	encounter for open fracture	DX	ICD-10-CIVI
S12.531A	Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial	DX	ICD-10-CM
	encounter for closed fracture		
S12.531B	Unspecified traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial	DX	ICD-10-CM
	encounter for open fracture		
S12.54XA	Type III traumatic spondylolisthesis of sixth cervical vertebra, initial encounter for	DX	ICD-10-CM
	closed fracture		
S12.54XB	Type III traumatic spondylolisthesis of sixth cervical vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S12.550A	Other traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter	DX	ICD-10-CM
	for closed fracture		
S12.550B	Other traumatic displaced spondylolisthesis of sixth cervical vertebra, initial encounter	DX	ICD-10-CM
	for open fracture		
S12.551A	Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial	DX	ICD-10-CM
	encounter for closed fracture		
S12.551B	Other traumatic nondisplaced spondylolisthesis of sixth cervical vertebra, initial	DX	ICD-10-CM
642 5004	encounter for open fracture	5.4	100 40 604
S12.590A	Other displaced fracture of sixth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.590B	Other displaced fracture of sixth cervical vertebra, initial encounter for open fracture	DX	ICD-10-CM
S12.591A	Other nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.591B	Other nondisplaced fracture of sixth cervical vertebra, initial encounter for open	DX	ICD-10-CM
S12.600A	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed	DX	ICD-10-CM
312.000A	fracture	DX	ICD-10-CIVI
S12.600B	Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open	DX	ICD-10-CM
012.0002	fracture		.02 20 0
S12.601A	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for	DX	ICD-10-CM
	closed fracture		
S12.601B	Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for	DX	ICD-10-CM
	open fracture		
S12.630A	Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial	DX	ICD-10-CM
	encounter for closed fracture		
S12.630B	Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial	DX	ICD-10-CM
	encounter for open fracture		
S12.631A	Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra,	DX	ICD-10-CM
	initial encounter for closed fracture		
S12.631B	Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra,	DX	ICD-10-CM
	initial encounter for open fracture		
S12.64XA	Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for	DX	ICD-10-CM
040.6	closed fracture	5.4	100 10 011
S12.64XB	Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for	DX	ICD-10-CM
	open fracture		

cder\_mpl2p\_wp047 Page 348 of 702



_			
Code	Description	Code Type	Code Category
S12.650A	Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial	DX	ICD-10-CM
	encounter for closed fracture		
S12.650B	Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial	DX	ICD-10-CM
	encounter for open fracture		
S12.651A	Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial	DX	ICD-10-CM
C42 CE4B	encounter for closed fracture	DV	100 40 614
S12.651B	Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial	DX	ICD-10-CM
C12 C00A	encounter for open fracture	DV	ICD 10 CM
S12.690A	Other displaced fracture of seventh cervical vertebra, initial encounter for closed	DX	ICD-10-CM
S12.690B	Other displaced fracture of seventh cervical vertebra, initial encounter for open	DX	ICD-10-CM
S12.691A	Other nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S12.691B	Other nondisplaced fracture of seventh cervical vertebra, initial encounter for open	DX	ICD-10-CM
312.0316	fracture	DX	ICD-10-CIVI
S12.8XXA	Fracture of other parts of neck, initial encounter	DX	ICD-10-CM
S12.9XXA	Fracture of neck, unspecified, initial encounter	DX	ICD-10-CM
S14.101A	Unspecified injury at C1 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.102A	Unspecified injury at C2 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.103A	Unspecified injury at C3 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.104A	Unspecified injury at C4 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.105A	Unspecified injury at C5 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.106A	Unspecified injury at C6 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.107A	Unspecified injury at C7 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.109A	Unspecified injury at unspecified level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.111A	Complete lesion at C1 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.112A	Complete lesion at C2 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.113A	Complete lesion at C3 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.114A	Complete lesion at C4 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.115A	Complete lesion at C5 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.116A	Complete lesion at C6 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.117A	Complete lesion at C7 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.121A	Central cord syndrome at C1 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.122A	Central cord syndrome at C2 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.123A	Central cord syndrome at C3 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.124A	Central cord syndrome at C4 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.125A	Central cord syndrome at C5 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.126A	Central cord syndrome at C6 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.127A	Central cord syndrome at C7 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.131A	Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.132A	Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.133A	Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.134A	Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.135A	Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 349 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reques			
Code	Description	Code Type	Code Category
S14.136A	Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.137A	Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.151A	Other incomplete lesion at C1 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.152A	Other incomplete lesion at C2 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.153A	Other incomplete lesion at C3 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.154A	Other incomplete lesion at C4 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.155A	Other incomplete lesion at C5 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.156A	Other incomplete lesion at C6 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S14.157A	Other incomplete lesion at C7 level of cervical spinal cord, initial encounter	DX	ICD-10-CM
S17.0XXA	Crushing injury of larynx and trachea, initial encounter	DX	ICD-10-CM
S17.8XXA	Crushing injury of other specified parts of neck, initial encounter	DX	ICD-10-CM
S17.9XXA	Crushing injury of neck, part unspecified, initial encounter	DX	ICD-10-CM
S21.101A	Unspecified open wound of right front wall of thorax without penetration into thoracic	DX	ICD-10-CM
	cavity, initial encounter		
S21.102A	Unspecified open wound of left front wall of thorax without penetration into thoracic	DX	ICD-10-CM
	cavity, initial encounter		
S21.109A	Unspecified open wound of unspecified front wall of thorax without penetration into	DX	ICD-10-CM
	thoracic cavity, initial encounter		
S21.111A	Laceration without foreign body of right front wall of thorax without penetration into	DX	ICD-10-CM
	thoracic cavity, initial encounter		
S21.112A	Laceration without foreign body of left front wall of thorax without penetration into	DX	ICD-10-CM
	thoracic cavity, initial encounter		
S21.119A	Laceration without foreign body of unspecified front wall of thorax without penetration	DX	ICD-10-CM
	into thoracic cavity, initial encounter		
S21.121A	Laceration with foreign body of right front wall of thorax without penetration into	DX	ICD-10-CM
	thoracic cavity, initial encounter		
S21.122A	Laceration with foreign body of left front wall of thorax without penetration into	DX	ICD-10-CM
	thoracic cavity, initial encounter		
S21.129A	Laceration with foreign body of unspecified front wall of thorax without penetration	DX	ICD-10-CM
	into thoracic cavity, initial encounter		
S21.131A	Puncture wound without foreign body of right front wall of thorax without penetration	DX	ICD-10-CM
	into thoracic cavity, initial encounter		
S21.132A	Puncture wound without foreign body of left front wall of thorax without penetration	DX	ICD-10-CM
	into thoracic cavity, initial encounter		
S21.139A	Puncture wound without foreign body of unspecified front wall of thorax without	DX	ICD-10-CM
	penetration into thoracic cavity, initial encounter		
S21.141A	Puncture wound with foreign body of right front wall of thorax without penetration	DX	ICD-10-CM
	into thoracic cavity, initial encounter		
S21.142A	Puncture wound with foreign body of left front wall of thorax without penetration into	DX	ICD-10-CM
	thoracic cavity, initial encounter		
S21.149A	Puncture wound with foreign body of unspecified front wall of thorax without	DX	ICD-10-CM
	penetration into thoracic cavity, initial encounter		

cder\_mpl2p\_wp047 Page 350 of 702



tins reque			
Code	Description	Code Type	Code Category
S21.151A	Open bite of right front wall of thorax without penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.152A	Open bite of left front wall of thorax without penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.159A	Open bite of unspecified front wall of thorax without penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.301A	Unspecified open wound of right front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.302A	Unspecified open wound of left front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.309A	Unspecified open wound of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.311A	Laceration without foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.312A	Laceration without foreign body of left front wall of thorax with penetration into	DX	ICD-10-CM
S21.319A	thoracic cavity, initial encounter  Laceration without foreign body of unspecified front wall of thorax with penetration	DX	ICD-10-CM
S21.321A	into thoracic cavity, initial encounter  Laceration with foreign body of right front wall of thorax with penetration into thoracic	DX	ICD-10-CM
S21.322A	cavity, initial encounter  Laceration with foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.329A	Laceration with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.331A	Puncture wound without foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.332A	Puncture wound without foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.339A	Puncture wound without foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.341A	Puncture wound with foreign body of right front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.342A	Puncture wound with foreign body of left front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.349A	Puncture wound with foreign body of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.351A	Open bite of right front wall of thorax with penetration into thoracic cavity, initial	DX	ICD-10-CM
S21.352A	Open bite of left front wall of thorax with penetration into thoracic cavity, initial	DX	ICD-10-CM
S21.359A	encounter  Open bite of unspecified front wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 351 of 702



tills reque			
Code	Description	Code Type	Code Category
S21.401A	Unspecified open wound of right back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.402A	Unspecified open wound of left back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.409A	Unspecified open wound of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.411A	Laceration without foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.412A	Laceration without foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.419A	Laceration without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.421A	Laceration with foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.422A	Laceration with foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.429A	Laceration with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.431A	Puncture wound without foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.432A	Puncture wound without foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.439A	Puncture wound without foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.441A	Puncture wound with foreign body of right back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.442A	Puncture wound with foreign body of left back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.449A	Puncture wound with foreign body of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.451A	Open bite of right back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.452A	Open bite of left back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.459A	Open bite of unspecified back wall of thorax with penetration into thoracic cavity, initial encounter	DX	ICD-10-CM
S21.90XA	Unspecified open wound of unspecified part of thorax, initial encounter	DX	ICD-10-CM
S21.91XA	Laceration without foreign body of unspecified part of thorax, initial encounter	DX	ICD-10-CM
S21.92XA	Laceration with foreign body of unspecified part of thorax, initial encounter	DX	ICD-10-CM
S21.93XA	Puncture wound without foreign body of unspecified part of thorax, initial encounter	DX	ICD-10-CM
S21.94XA	Puncture wound with foreign body of unspecified part of thorax, initial encounter	DX	ICD-10-CM
S21.95XA	Open bite of unspecified part of thorax, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 352 of 702



Code	Description	Code Type	Code Category
S22.000A	Wedge compression fracture of unspecified thoracic vertebra, initial encounter for	DX	ICD-10-CM
	closed fracture		
S22.000B	Wedge compression fracture of unspecified thoracic vertebra, initial encounter for	DX	ICD-10-CM
	open fracture		
S22.001A	Stable burst fracture of unspecified thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S22.001B	Stable burst fracture of unspecified thoracic vertebra, initial encounter for open	DX	ICD-10-CM
S22.002A	Unstable burst fracture of unspecified thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S22.002B	Unstable burst fracture of unspecified thoracic vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S22.008A	Other fracture of unspecified thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.008B	Other fracture of unspecified thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.009A	Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
S22.009B	Unspecified fracture of unspecified thoracic vertebra, initial encounter for open	DX	ICD-10-CM
S22.010A	Wedge compression fracture of first thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
C22 010D	fracture	DV	ICD 10 CM
S22.010B	Wedge compression fracture of first thoracic vertebra, initial encounter for open	DX	ICD-10-CM
S22.011A S22.011B	Stable burst fracture of first thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
	Stable burst fracture of first thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.012A	Unstable burst fracture of first thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.012B S22.018A	Unstable burst fracture of first thoracic vertebra, initial encounter for open fracture	DX DX	ICD-10-CM ICD-10-CM
S22.018A S22.018B	Other fracture of first thoracic vertebra, initial encounter for closed fracture Other fracture of first thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CIVI
S22.018B	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.019A	Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.020A	Wedge compression fracture of second thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
322.020A	fracture	DX	ICD-10-CIVI
S22.020B	Wedge compression fracture of second thoracic vertebra, initial encounter for open	DX	ICD-10-CM
322.0200	fracture	D/A	100 10 0141
S22.021A	Stable burst fracture of second thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.021B	Stable burst fracture of second thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.022A	Unstable burst fracture of second thoracic vertebra, initial encounter for closed fracture		ICD-10-CM
S22.022B	Unstable burst fracture of second thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.028A	Other fracture of second thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.028B	Other fracture of second thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.029A	Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.029B	Unspecified fracture of second thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.030A	Wedge compression fracture of third thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S22.030B	Wedge compression fracture of third thoracic vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S22.031A	Stable burst fracture of third thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 353 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S22.031B	Stable burst fracture of third thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.032A	Unstable burst fracture of third thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.032B	Unstable burst fracture of third thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.038A	Other fracture of third thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.038B	Other fracture of third thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.039A	Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.039B	Unspecified fracture of third thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.040A	Wedge compression fracture of fourth thoracic vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S22.040B	Wedge compression fracture of fourth thoracic vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S22.041A	Stable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.041B	Stable burst fracture of fourth thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.042A	Unstable burst fracture of fourth thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.042B	Unstable burst fracture of fourth thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.048A	Other fracture of fourth thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.048B	Other fracture of fourth thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.049A	Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.049B	Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.050A	Wedge compression fracture of T5-T6 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.050B	Wedge compression fracture of T5-T6 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.051A	Stable burst fracture of T5-T6 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.051B	Stable burst fracture of T5-T6 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.052A	Unstable burst fracture of T5-T6 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.052B	Unstable burst fracture of T5-T6 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.058A	Other fracture of T5-T6 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.058B	Other fracture of T5-T6 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.059A	Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.059B	Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.060A	Wedge compression fracture of T7-T8 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.060B	Wedge compression fracture of T7-T8 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.061A	Stable burst fracture of T7-T8 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.061B	Stable burst fracture of T7-T8 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.062A	Unstable burst fracture of T7-T8 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.062B	Unstable burst fracture of T7-T8 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.068A	Other fracture of T7-T8 thoracic vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.068B	Other fracture of T7-T8 thoracic vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.069A	Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.069B	Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.070A	Wedge compression fracture of T9-T10 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.070B	Wedge compression fracture of T9-T10 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.071A	Stable burst fracture of T9-T10 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.071B	Stable burst fracture of T9-T10 vertebra, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 354 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
S22.072A	Unstable burst fracture of T9-T10 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.072B	Unstable burst fracture of T9-T10 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.078A	Other fracture of T9-T10 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.078B	Other fracture of T9-T10 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.079A	Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.079B	Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.080A	Wedge compression fracture of T11-T12 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.080B	Wedge compression fracture of T11-T12 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.081A	Stable burst fracture of T11-T12 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.081B	Stable burst fracture of T11-T12 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.082A	Unstable burst fracture of T11-T12 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.082B	Unstable burst fracture of T11-T12 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.088A	Other fracture of T11-T12 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.088B	Other fracture of T11-T12 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.089A	Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S22.089B	Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture	DX	ICD-10-CM
S22.20XA	Unspecified fracture of sternum, initial encounter for closed fracture	DX	ICD-10-CM
S22.20XB	Unspecified fracture of sternum, initial encounter for open fracture	DX	ICD-10-CM
S22.21XA	Fracture of manubrium, initial encounter for closed fracture	DX	ICD-10-CM
S22.21XB	Fracture of manubrium, initial encounter for open fracture	DX	ICD-10-CM
S22.22XA	Fracture of body of sternum, initial encounter for closed fracture	DX	ICD-10-CM
S22.22XB	Fracture of body of sternum, initial encounter for open fracture	DX	ICD-10-CM
S22.23XA	Sternal manubrial dissociation, initial encounter for closed fracture	DX	ICD-10-CM
S22.23XB	Sternal manubrial dissociation, initial encounter for open fracture	DX	ICD-10-CM
S22.24XA	Fracture of xiphoid process, initial encounter for closed fracture	DX	ICD-10-CM
S22.24XB	Fracture of xiphoid process, initial encounter for open fracture	DX	ICD-10-CM
S22.31XA	Fracture of one rib, right side, initial encounter for closed fracture	DX	ICD-10-CM
S22.31XB	Fracture of one rib, right side, initial encounter for open fracture	DX	ICD-10-CM
S22.32XA	Fracture of one rib, left side, initial encounter for closed fracture	DX	ICD-10-CM
S22.32XB	Fracture of one rib, left side, initial encounter for open fracture	DX	ICD-10-CM
S22.39XA	Fracture of one rib, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S22.39XB	Fracture of one rib, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S22.41XA	Multiple fractures of ribs, right side, initial encounter for closed fracture	DX	ICD-10-CM
S22.41XB	Multiple fractures of ribs, right side, initial encounter for open fracture	DX	ICD-10-CM
S22.42XA	Multiple fractures of ribs, left side, initial encounter for closed fracture	DX	ICD-10-CM
S22.42XB	Multiple fractures of ribs, left side, initial encounter for open fracture	DX	ICD-10-CM
S22.43XA	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	DX	ICD-10-CM
S22.43XB	Multiple fractures of ribs, bilateral, initial encounter for open fracture	DX	ICD-10-CM
S22.49XA	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S22.49XB	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S22.5XXA	Flail chest, initial encounter for closed fracture	DX	ICD-10-CM
S22.5XXB	Flail chest, initial encounter for open fracture	DX	ICD-10-CM
S22.9XXA	Fracture of bony thorax, part unspecified, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 355 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reques			
Code	Description	Code Type	Code Category
S22.9XXB	Fracture of bony thorax, part unspecified, initial encounter for open fracture	DX	ICD-10-CM
S24.101A	Unspecified injury at T1 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.102A	Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.103A	Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.104A	Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.109A	Unspecified injury at unspecified level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.111A	Complete lesion at T1 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.112A	Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.113A	Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.114A	Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.131A	Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.132A	Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.133A	Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.134A	Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.151A	Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.152A	Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.153A	Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S24.154A	Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter	DX	ICD-10-CM
S27.0XXA	Traumatic pneumothorax, initial encounter	DX	ICD-10-CM
S27.1XXA	Traumatic hemothorax, initial encounter	DX	ICD-10-CM
S27.2XXA	Traumatic hemopneumothorax, initial encounter	DX	ICD-10-CM
S27.802A	Contusion of diaphragm, initial encounter	DX	ICD-10-CM
S27.803A	Laceration of diaphragm, initial encounter	DX	ICD-10-CM
S27.808A	Other injury of diaphragm, initial encounter	DX	ICD-10-CM
S27.809A	Unspecified injury of diaphragm, initial encounter	DX	ICD-10-CM
S27.9XXA	Injury of unspecified intrathoracic organ, initial encounter	DX	ICD-10-CM
S28.0XXA	Crushed chest, initial encounter	DX	ICD-10-CM
S28.1XXA	Traumatic amputation (partial) of part of thorax, except breast, initial encounter	DX	ICD-10-CM
S29.021A	Laceration of muscle and tendon of front wall of thorax, initial encounter	DX	ICD-10-CM
S29.029A	Laceration of muscle and tendon of unspecified wall of thorax, initial encounter	DX	ICD-10-CM
S31.001A	Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, initial encounter	DX	ICD-10-CM
S31.609A	Unspecified open wound of abdominal wall, unspecified quadrant with penetration into peritoneal cavity, initial encounter	DX	ICD-10-CM
S32.000A	Wedge compression fracture of unspecified lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.000B	Wedge compression fracture of unspecified lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.001A	Stable burst fracture of unspecified lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
S32.001A	Stable burst fracture of unspecified lumbar vertebra, initial encounter for open fracture		ICD-10-CM
S32.001B	Unstable burst fracture of unspecified lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
332.3027	fracture		105 10 0111

cder\_mpl2p\_wp047 Page 356 of 702



Code	Description	Code Type	Code Category
S32.002B	Unstable burst fracture of unspecified lumbar vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.008A	Other fracture of unspecified lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.008B	Other fracture of unspecified lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.009A	Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
S32.009B	Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.010A	Wedge compression fracture of first lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.010B	Wedge compression fracture of first lumbar vertebra, initial encounter for open	DX	ICD-10-CM
S32.011A	Stable burst fracture of first lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.011B	Stable burst fracture of first lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.012A	Unstable burst fracture of first lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.012B	Unstable burst fracture of first lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.018A	Other fracture of first lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.018B	Other fracture of first lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.019A	Unspecified fracture of first lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.019B	Unspecified fracture of first lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.020A	Wedge compression fracture of second lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.020B	Wedge compression fracture of second lumbar vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.021A	Stable burst fracture of second lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.021B	Stable burst fracture of second lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.022A	Unstable burst fracture of second lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.022B	Unstable burst fracture of second lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.028A	Other fracture of second lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.028B	Other fracture of second lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.029A	Unspecified fracture of second lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.029B	Unspecified fracture of second lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.030A	Wedge compression fracture of third lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.030B	Wedge compression fracture of third lumbar vertebra, initial encounter for open	DX	ICD-10-CM
S32.031A	Stable burst fracture of third lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.031B	Stable burst fracture of third lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.032A	Unstable burst fracture of third lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.032B	Unstable burst fracture of third lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.038A	Other fracture of third lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.038B	Other fracture of third lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.039A	Unspecified fracture of third lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.039B	Unspecified fracture of third lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.040A	Wedge compression fracture of fourth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 357 of 702



Code	Description	Code Type	Code Category
S32.040B	Wedge compression fracture of fourth lumbar vertebra, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.041A	Stable burst fracture of fourth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.041B	Stable burst fracture of fourth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.042A	Unstable burst fracture of fourth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.042B	Unstable burst fracture of fourth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.048A	Other fracture of fourth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.048B	Other fracture of fourth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.049A	Unspecified fracture of fourth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.049B	Unspecified fracture of fourth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.050A	Wedge compression fracture of fifth lumbar vertebra, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.050B	Wedge compression fracture of fifth lumbar vertebra, initial encounter for open	DX	ICD-10-CM
S32.051A	Stable burst fracture of fifth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.051B	Stable burst fracture of fifth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.052A	Unstable burst fracture of fifth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.052B	Unstable burst fracture of fifth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.058A	Other fracture of fifth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.058B	Other fracture of fifth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.059A	Unspecified fracture of fifth lumbar vertebra, initial encounter for closed fracture	DX	ICD-10-CM
S32.059B	Unspecified fracture of fifth lumbar vertebra, initial encounter for open fracture	DX	ICD-10-CM
S32.10XA	Unspecified fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.10XB	Unspecified fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.110A	Nondisplaced Zone I fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.110B	Nondisplaced Zone I fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.111A	Minimally displaced Zone I fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.111B	Minimally displaced Zone I fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.112A	Severely displaced Zone I fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.112B	Severely displaced Zone I fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.119A	Unspecified Zone I fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.119B	Unspecified Zone I fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.120A	Nondisplaced Zone II fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.120B	Nondisplaced Zone II fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.121A	Minimally displaced Zone II fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.121B	Minimally displaced Zone II fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.122A	Severely displaced Zone II fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.122B	Severely displaced Zone II fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.129A	Unspecified Zone II fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.129B	Unspecified Zone II fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.130A	Nondisplaced Zone III fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.130B	Nondisplaced Zone III fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.131A	Minimally displaced Zone III fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.131B	Minimally displaced Zone III fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 358 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reques			
Code	Description	Code Type	Code Category
S32.132A	Severely displaced Zone III fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.132B	Severely displaced Zone III fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.139A	Unspecified Zone III fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.139B	Unspecified Zone III fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.14XA	Type 1 fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.14XB	Type 1 fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.15XA	Type 2 fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.15XB	Type 2 fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.16XA	Type 3 fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.16XB	Type 3 fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.17XA	Type 4 fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.17XB	Type 4 fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.19XA	Other fracture of sacrum, initial encounter for closed fracture	DX	ICD-10-CM
S32.19XB	Other fracture of sacrum, initial encounter for open fracture	DX	ICD-10-CM
S32.2XXA	Fracture of coccyx, initial encounter for closed fracture	DX	ICD-10-CM
S32.2XXB	Fracture of coccyx, initial encounter for open fracture	DX	ICD-10-CM
S32.301A	Unspecified fracture of right ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.301B	Unspecified fracture of right ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.302A	Unspecified fracture of left ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.302B	Unspecified fracture of left ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.309A	Unspecified fracture of unspecified ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.309B	Unspecified fracture of unspecified ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.311A	Displaced avulsion fracture of right ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.311B	Displaced avulsion fracture of right ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.312A	Displaced avulsion fracture of left ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.312B	Displaced avulsion fracture of left ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.313A	Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.313B	Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.314A	Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.314B	Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.315A	Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.315B	Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.316A	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.316B	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.391A	Other fracture of right ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.391B	Other fracture of right ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.392A	Other fracture of left ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.392B	Other fracture of left ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.399A	Other fracture of unspecified ilium, initial encounter for closed fracture	DX	ICD-10-CM
S32.399B	Other fracture of unspecified ilium, initial encounter for open fracture	DX	ICD-10-CM
S32.401A	Unspecified fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.401B	Unspecified fracture of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.402A	Unspecified fracture of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 359 of 702



Code	Description		
	·	Code Type	Code Category
S32.402B	Unspecified fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.409A	Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.409B	Unspecified fracture of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.411A	Displaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.411B	Displaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.412A	Displaced fracture of anterior wall of left acetabulum, initial encounter for closed	DX	ICD-10-CM
S32.412B	Displaced fracture of anterior wall of left acetabulum, initial encounter for open	DX	ICD-10-CM
S32.413A	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.413B	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.414A	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.414B	Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.415A	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.415B	Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.416A	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.416B	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.421A	Displaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.421B	Displaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.422A	Displaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.422B	Displaced fracture of posterior wall of left acetabulum, initial encounter for open	DX	ICD-10-CM
S32.423A	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.423B	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.424A	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.424B	Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.425A	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 360 of 702



Code	Description	Code Type	Code Category
S32.425B	Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.426A	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for	DX	ICD-10-CM
	closed fracture		
S32.426B	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for	DX	ICD-10-CM
C22 421 A	open fracture	DV	ICD 10 CM
S32.431A	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.431B	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter	DX	ICD-10-CM
332.4315	for open fracture		TED TO CIVI
S32.432A	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter	DX	ICD-10-CM
	for closed fracture		
S32.432B	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter	DX	ICD-10-CM
	for open fracture		
S32.433A	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial	DX	ICD-10-CM
C22 422B	encounter for closed fracture	DV	100 40 614
S32.433B	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial	DX	ICD-10-CM
S32.434A	encounter for open fracture  Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial	DX	ICD-10-CM
332. <del>4</del> 34A	encounter for closed fracture	DX	ICD-10-CIVI
S32.434B	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial	DX	ICD-10-CM
	encounter for open fracture		
S32.435A	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial	DX	ICD-10-CM
	encounter for closed fracture		
S32.435B	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial	DX	ICD-10-CM
	encounter for open fracture		
S32.436A	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.436B	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial	DX	ICD-10-CM
332.4300	encounter for open fracture	DX	ICD-10-CIVI
S32.441A	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter	DX	ICD-10-CM
	for closed fracture		
S32.441B	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter	DX	ICD-10-CM
	for open fracture		
S32.442A	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter	DX	ICD-10-CM
	for closed fracture	5.4	100 10 011
S32.442B	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter	DX	ICD-10-CM
S32.443A	for open fracture  Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial	DX	ICD-10-CM
JJZ. <del>44</del> 3A	encounter for closed fracture	DΛ	ICD-10-CIVI
S32.443B	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial	DX	ICD-10-CM
	encounter for open fracture		

cder\_mpl2p\_wp047 Page 361 of 702



	5	0.1.7	
Code	Description (iii)	Code Type	Code Category
S32.444A	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.444B	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial	DX	ICD-10-CM
	encounter for open fracture		
S32.445A	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.445B	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.446A	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial	DX	ICD-10-CM
	encounter for closed fracture		
S32.446B	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.451A	Displaced transverse fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.451B	Displaced transverse fracture of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.452A	Displaced transverse fracture of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.452B	Displaced transverse fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.453A	Displaced transverse fracture of unspecified acetabulum, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.453B	Displaced transverse fracture of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
C22 4E4A		DV	ICD 10 CM
S32.454A	Nondisplaced transverse fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.454B	Nondisplaced transverse fracture of right acetabulum, initial encounter for open	DX	ICD-10-CM
S32.455A	Nondisplaced transverse fracture of left acetabulum, initial encounter for closed	DX	ICD-10-CM
S32.455B	Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.456A	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.456B	Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.461A	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.461B	Displaced associated transverse-posterior fracture of right acetabulum, initial	DX	ICD-10-CM
S32.462A	encounter for open fracture Displaced associated transverse-posterior fracture of left acetabulum, initial encounter	DX	ICD-10-CM
	for closed fracture		
S32.462B	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.463A	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial	DX	ICD-10-CM
	encounter for closed fracture		
S32.463B	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.464A	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 362 of 702



Code	Description	Code Type	Code Category
S32.464B	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial	DX	ICD-10-CM
002.1015	encounter for open fracture		100 10 0111
S32.465A	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial	DX	ICD-10-CM
	encounter for closed fracture		
S32.465B	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial	DX	ICD-10-CM
	encounter for open fracture		
S32.466A	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial	DX	ICD-10-CM
	encounter for closed fracture		
S32.466B	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial	DX	ICD-10-CM
	encounter for open fracture		
S32.471A	Displaced fracture of medial wall of right acetabulum, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.471B	Displaced fracture of medial wall of right acetabulum, initial encounter for open	DX	ICD-10-CM
S32.472A	Displaced fracture of medial wall of left acetabulum, initial encounter for closed	DX	ICD-10-CM
S32.472B	Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.473A	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.473B	Displaced fracture of medial wall of unspecified acetabulum, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.474A	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.474B	Nondisplaced fracture of medial wall of right acetabulum, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.475A	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for closed	DX	ICD-10-CM
C22 47ED	fracture	DV	100 40 614
S32.475B	Nondisplaced fracture of medial wall of left acetabulum, initial encounter for open	DX	ICD-10-CM
C22 47CA	fracture	DV	ICD 10 CM
S32.476A	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.476B	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for	DX	ICD-10-CM
332.4700	open fracture	DΛ	ICD-10-CIVI
S32.481A	Displaced dome fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.481B	Displaced dome fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.482A	Displaced dome fracture of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.482B	Displaced dome fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.483A	Displaced dome fracture of unspecified acetabulum, initial encounter for closed	DX	ICD-10-CM
S32.483B	Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.484A	Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.484B	Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.485A	Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.485B	Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.486A	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for closed	DX	ICD-10-CM
	fracture		

cder\_mpl2p\_wp047 Page 363 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S32.486B	Nondisplaced dome fracture of unspecified acetabulum, initial encounter for open	DX	ICD-10-CM
	fracture		
S32.491A	Other specified fracture of right acetabulum, initial encounter for closed fracture		ICD-10-CM
S32.491B	Other specified fracture of right acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.492A	Other specified fracture of left acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.492B	Other specified fracture of left acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.499A	Other specified fracture of unspecified acetabulum, initial encounter for closed fracture	DX	ICD-10-CM
S32.499B	Other specified fracture of unspecified acetabulum, initial encounter for open fracture	DX	ICD-10-CM
S32.501A	Unspecified fracture of right pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.501B	Unspecified fracture of right pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.502A	Unspecified fracture of left pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.502B	Unspecified fracture of left pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.509A	Unspecified fracture of unspecified pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.509B	Unspecified fracture of unspecified pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.511A	Fracture of superior rim of right pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.511B	Fracture of superior rim of right pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.512A	Fracture of superior rim of left pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.512B	Fracture of superior rim of left pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.519A	Fracture of superior rim of unspecified pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.519B	Fracture of superior rim of unspecified pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.591A	Other specified fracture of right pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.591B	Other specified fracture of right pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.592A	Other specified fracture of left pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.592B	Other specified fracture of left pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.599A	Other specified fracture of unspecified pubis, initial encounter for closed fracture	DX	ICD-10-CM
S32.599B	Other specified fracture of unspecified pubis, initial encounter for open fracture	DX	ICD-10-CM
S32.601A	Unspecified fracture of right ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.601B	Unspecified fracture of right ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.602A	Unspecified fracture of left ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.602B	Unspecified fracture of left ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.609A	Unspecified fracture of unspecified ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.609B	Unspecified fracture of unspecified ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.611A	Displaced avulsion fracture of right ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.611B	Displaced avulsion fracture of right ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.612A	Displaced avulsion fracture of left ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.612B	Displaced avulsion fracture of left ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.613A	Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.613B	Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.614A	Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.614B	Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.615A	Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.615B	Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 364 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	<b>Code Category</b>
S32.616A	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for closed	DX	ICD-10-CM
	fracture		
S32.616B	Nondisplaced avulsion fracture of unspecified ischium, initial encounter for open	DX	ICD-10-CM
S32.691A	Other specified fracture of right ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.691B	Other specified fracture of right ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.692A	Other specified fracture of left ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.692B	Other specified fracture of left ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.699A	Other specified fracture of unspecified ischium, initial encounter for closed fracture	DX	ICD-10-CM
S32.699B	Other specified fracture of unspecified ischium, initial encounter for open fracture	DX	ICD-10-CM
S32.810A	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture	DX	ICD-10-CM
S32.810B	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture	DX	ICD-10-CM
S32.811A	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture	DX	ICD-10-CM
S32.811B	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture	DX	ICD-10-CM
S32.82XA	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture	DX	ICD-10-CM
S32.82XB	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture	DX	ICD-10-CM
S32.89XA	Fracture of other parts of pelvis, initial encounter for closed fracture	DX	ICD-10-CM
S32.89XB	Fracture of other parts of pelvis, initial encounter for open fracture	DX	ICD-10-CM
S32.9XXA	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture	DX	ICD-10-CM
S32.9XXB	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture	DX	ICD-10-CM
S34.101A	Unspecified injury to L1 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.102A	Unspecified injury to L2 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.103A	Unspecified injury to L3 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.104A	Unspecified injury to L4 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.105A	Unspecified injury to L5 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.109A	Unspecified injury to unspecified level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.111A	Complete lesion of L1 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.112A	Complete lesion of L2 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.113A	Complete lesion of L3 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.114A	Complete lesion of L4 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.115A	Complete lesion of L5 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.119A	Complete lesion of unspecified level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.121A	Incomplete lesion of L1 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.122A	Incomplete lesion of L2 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.123A	Incomplete lesion of L3 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.124A	Incomplete lesion of L4 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 365 of 702



Code	Description	Code Type	Code Category
S34.125A	Incomplete lesion of L5 level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.129A	Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter	DX	ICD-10-CM
S34.131A	Complete lesion of sacral spinal cord, initial encounter	DX	ICD-10-CM
S34.132A	Incomplete lesion of sacral spinal cord, initial encounter	DX	ICD-10-CM
S34.139A	Unspecified injury to sacral spinal cord, initial encounter	DX	ICD-10-CM
S34.3XXA	Injury of cauda equina, initial encounter	DX	ICD-10-CM
S35.401A	Unspecified injury of right renal artery, initial encounter	DX	ICD-10-CM
S35.402A	Unspecified injury of left renal artery, initial encounter	DX	ICD-10-CM
S35.403A	Unspecified injury of unspecified renal artery, initial encounter	DX	ICD-10-CM
S35.404A	Unspecified injury of right renal vein, initial encounter	DX	ICD-10-CM
S35.405A	Unspecified injury of left renal vein, initial encounter	DX	ICD-10-CM
S35.406A	Unspecified injury of unspecified renal vein, initial encounter	DX	ICD-10-CM
S35.411A	Laceration of right renal artery, initial encounter	DX	ICD-10-CM
S35.412A	Laceration of left renal artery, initial encounter	DX	ICD-10-CM
S35.413A	Laceration of unspecified renal artery, initial encounter	DX	ICD-10-CM
S35.414A	Laceration of right renal vein, initial encounter	DX	ICD-10-CM
S35.415A	Laceration of left renal vein, initial encounter	DX	ICD-10-CM
S35.416A	Laceration of unspecified renal vein, initial encounter	DX	ICD-10-CM
S35.491A	Other specified injury of right renal artery, initial encounter	DX	ICD-10-CM
S35.492A	Other specified injury of left renal artery, initial encounter	DX	ICD-10-CM
S35.493A	Other specified injury of unspecified renal artery, initial encounter	DX	ICD-10-CM
S35.494A	Other specified injury of right renal vein, initial encounter	DX	ICD-10-CM
S35.495A	Other specified injury of left renal vein, initial encounter	DX	ICD-10-CM
S35.496A	Other specified injury of unspecified renal vein, initial encounter	DX	ICD-10-CM
S35.531A	Injury of right uterine artery, initial encounter	DX	ICD-10-CM
S35.532A	Injury of left uterine artery, initial encounter	DX	ICD-10-CM
S35.533A	Injury of unspecified uterine artery, initial encounter	DX	ICD-10-CM
S35.534A	Injury of right uterine vein, initial encounter	DX	ICD-10-CM
S35.535A	Injury of left uterine vein, initial encounter	DX	ICD-10-CM
S35.536A	Injury of unspecified uterine vein, initial encounter	DX	ICD-10-CM
S35.8X1A	Laceration of other blood vessels at abdomen, lower back and pelvis level, initial	DX	ICD-10-CM
	encounter		
S35.8X8A	Other specified injury of other blood vessels at abdomen, lower back and pelvis level, initial encounter	DX	ICD-10-CM
S35.8X9A	Unspecified injury of other blood vessels at abdomen, lower back and pelvis level, initial	DX	ICD-10-CM
S36.00XA	encounter Unspecified injury of spleen, initial encounter	DX	ICD-10-CM
S36.020A	Minor contusion of spleen, initial encounter	DX	ICD-10-CM
S36.021A	Major contusion of spleen, initial encounter	DX	ICD-10-CM
S36.021A	Unspecified contusion of spleen, initial encounter	DX	ICD-10-CM
S36.030A	Superficial (capsular) laceration of spleen, initial encounter	DX	ICD-10-CM
S36.031A	Moderate laceration of spleen, initial encounter	DX	ICD-10-CM
S36.032A	Major laceration of spleen, initial encounter	DX	ICD-10-CM
555.552,	, 2		.02 10 0

cder\_mpl2p\_wp047 Page 366 of 702



this keques	ot en		
Code	Description	Code Type	Code Category
S36.09XA	Other injury of spleen, initial encounter	DX	ICD-10-CM
S36.112A	Contusion of liver, initial encounter	DX	ICD-10-CM
S36.113A	Laceration of liver, unspecified degree, initial encounter	DX	ICD-10-CM
S36.114A	Minor laceration of liver, initial encounter	DX	ICD-10-CM
S36.115A	Moderate laceration of liver, initial encounter	DX	ICD-10-CM
S36.116A	Major laceration of liver, initial encounter	DX	ICD-10-CM
S36.118A	Other injury of liver, initial encounter	DX	ICD-10-CM
S36.119A	Unspecified injury of liver, initial encounter	DX	ICD-10-CM
S36.200A	Unspecified injury of head of pancreas, initial encounter	DX	ICD-10-CM
S36.201A	Unspecified injury of body of pancreas, initial encounter	DX	ICD-10-CM
S36.202A	Unspecified injury of tail of pancreas, initial encounter	DX	ICD-10-CM
S36.209A	Unspecified injury of unspecified part of pancreas, initial encounter	DX	ICD-10-CM
S36.220A	Contusion of head of pancreas, initial encounter	DX	ICD-10-CM
S36.221A	Contusion of body of pancreas, initial encounter	DX	ICD-10-CM
S36.222A	Contusion of tail of pancreas, initial encounter	DX	ICD-10-CM
S36.229A	Contusion of unspecified part of pancreas, initial encounter	DX	ICD-10-CM
S36.230A	Laceration of head of pancreas, unspecified degree, initial encounter	DX	ICD-10-CM
S36.231A	Laceration of body of pancreas, unspecified degree, initial encounter	DX	ICD-10-CM
S36.232A	Laceration of tail of pancreas, unspecified degree, initial encounter	DX	ICD-10-CM
S36.239A	Laceration of unspecified part of pancreas, unspecified degree, initial encounter	DX	ICD-10-CM
S36.240A	Minor laceration of head of pancreas, initial encounter	DX	ICD-10-CM
S36.241A	Minor laceration of body of pancreas, initial encounter	DX	ICD-10-CM
S36.242A	Minor laceration of tail of pancreas, initial encounter	DX	ICD-10-CM
S36.249A	Minor laceration of unspecified part of pancreas, initial encounter	DX	ICD-10-CM
S36.250A	Moderate laceration of head of pancreas, initial encounter	DX	ICD-10-CM
S36.251A	Moderate laceration of body of pancreas, initial encounter	DX	ICD-10-CM
S36.252A	Moderate laceration of tail of pancreas, initial encounter	DX	ICD-10-CM
S36.259A	Moderate laceration of unspecified part of pancreas, initial encounter	DX	ICD-10-CM
S36.260A	Major laceration of head of pancreas, initial encounter	DX	ICD-10-CM
S36.261A	Major laceration of body of pancreas, initial encounter	DX	ICD-10-CM
S36.262A	Major laceration of tail of pancreas, initial encounter	DX	ICD-10-CM
S36.269A	Major laceration of unspecified part of pancreas, initial encounter	DX	ICD-10-CM
S36.290A	Other injury of head of pancreas, initial encounter	DX	ICD-10-CM
S36.291A	Other injury of body of pancreas, initial encounter	DX	ICD-10-CM
S36.292A	Other injury of tail of pancreas, initial encounter	DX	ICD-10-CM
S36.299A	Other injury of unspecified part of pancreas, initial encounter	DX	ICD-10-CM
S36.30XA	Unspecified injury of stomach, initial encounter	DX	ICD-10-CM
S36.32XA	Contusion of stomach, initial encounter	DX	ICD-10-CM
S36.33XA	Laceration of stomach, initial encounter	DX	ICD-10-CM
S36.39XA	Other injury of stomach, initial encounter	DX	ICD-10-CM
S36.400A	Unspecified injury of duodenum, initial encounter	DX	ICD-10-CM
S36.408A	Unspecified injury of other part of small intestine, initial encounter	DX	ICD-10-CM
S36.409A	Unspecified injury of unspecified part of small intestine, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 367 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
S36.410A	Primary blast injury of duodenum, initial encounter	DX	ICD-10-CM
S36.418A	Primary blast injury of other part of small intestine, initial encounter	DX	ICD-10-CM
S36.419A	Primary blast injury of unspecified part of small intestine, initial encounter	DX	ICD-10-CM
S36.420A	Contusion of duodenum, initial encounter	DX	ICD-10-CM
S36.428A	Contusion of other part of small intestine, initial encounter	DX	ICD-10-CM
S36.429A	Contusion of unspecified part of small intestine, initial encounter	DX	ICD-10-CM
S36.430A	Laceration of duodenum, initial encounter	DX	ICD-10-CM
S36.438A	Laceration of other part of small intestine, initial encounter	DX	ICD-10-CM
S36.439A	Laceration of unspecified part of small intestine, initial encounter	DX	ICD-10-CM
S36.490A	Other injury of duodenum, initial encounter	DX	ICD-10-CM
S36.498A	Other injury of other part of small intestine, initial encounter	DX	ICD-10-CM
S36.499A	Other injury of unspecified part of small intestine, initial encounter	DX	ICD-10-CM
S36.500A	Unspecified injury of ascending [right] colon, initial encounter	DX	ICD-10-CM
S36.501A	Unspecified injury of transverse colon, initial encounter	DX	ICD-10-CM
S36.502A	Unspecified injury of descending [left] colon, initial encounter	DX	ICD-10-CM
S36.503A	Unspecified injury of sigmoid colon, initial encounter	DX	ICD-10-CM
S36.508A	Unspecified injury of other part of colon, initial encounter	DX	ICD-10-CM
S36.509A	Unspecified injury of unspecified part of colon, initial encounter	DX	ICD-10-CM
S36.510A	Primary blast injury of ascending [right] colon, initial encounter	DX	ICD-10-CM
S36.511A	Primary blast injury of transverse colon, initial encounter	DX	ICD-10-CM
S36.512A	Primary blast injury of descending [left] colon, initial encounter	DX	ICD-10-CM
S36.513A	Primary blast injury of sigmoid colon, initial encounter	DX	ICD-10-CM
S36.518A	Primary blast injury of other part of colon, initial encounter	DX	ICD-10-CM
S36.519A	Primary blast injury of unspecified part of colon, initial encounter	DX	ICD-10-CM
S36.520A	Contusion of ascending [right] colon, initial encounter	DX	ICD-10-CM
S36.521A	Contusion of transverse colon, initial encounter	DX	ICD-10-CM
S36.522A	Contusion of descending [left] colon, initial encounter	DX	ICD-10-CM
S36.523A	Contusion of sigmoid colon, initial encounter	DX	ICD-10-CM
S36.528A	Contusion of other part of colon, initial encounter	DX	ICD-10-CM
S36.529A	Contusion of unspecified part of colon, initial encounter	DX	ICD-10-CM
S36.530A	Laceration of ascending [right] colon, initial encounter	DX	ICD-10-CM
S36.531A	Laceration of transverse colon, initial encounter	DX	ICD-10-CM
S36.532A	Laceration of descending [left] colon, initial encounter	DX	ICD-10-CM
S36.533A	Laceration of sigmoid colon, initial encounter	DX	ICD-10-CM
S36.538A	Laceration of other part of colon, initial encounter	DX	ICD-10-CM
S36.539A	Laceration of unspecified part of colon, initial encounter	DX	ICD-10-CM
S36.590A	Other injury of ascending [right] colon, initial encounter	DX	ICD-10-CM
S36.591A	Other injury of transverse colon, initial encounter	DX	ICD-10-CM
S36.592A	Other injury of descending [left] colon, initial encounter	DX	ICD-10-CM
S36.593A	Other injury of sigmoid colon, initial encounter	DX	ICD-10-CM
S36.598A	Other injury of other part of colon, initial encounter	DX	ICD-10-CM
S36.599A	Other injury of unspecified part of colon, initial encounter	DX	ICD-10-CM
S36.60XA	Unspecified injury of rectum, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 368 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

this keques	ot en		
Code	Description	Code Type	Code Category
S36.61XA	Primary blast injury of rectum, initial encounter	DX	ICD-10-CM
S36.62XA	Contusion of rectum, initial encounter	DX	ICD-10-CM
S36.63XA	Laceration of rectum, initial encounter	DX	ICD-10-CM
S36.69XA	Other injury of rectum, initial encounter	DX	ICD-10-CM
S36.899A	Unspecified injury of other intra-abdominal organs, initial encounter	DX	ICD-10-CM
S36.90XA	Unspecified injury of unspecified intra-abdominal organ, initial encounter	DX	ICD-10-CM
S37.001A	Unspecified injury of right kidney, initial encounter	DX	ICD-10-CM
S37.002A	Unspecified injury of left kidney, initial encounter	DX	ICD-10-CM
S37.009A	Unspecified injury of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.011A	Minor contusion of right kidney, initial encounter	DX	ICD-10-CM
S37.012A	Minor contusion of left kidney, initial encounter	DX	ICD-10-CM
S37.019A	Minor contusion of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.021A	Major contusion of right kidney, initial encounter	DX	ICD-10-CM
S37.022A	Major contusion of left kidney, initial encounter	DX	ICD-10-CM
S37.029A	Major contusion of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.031A	Laceration of right kidney, unspecified degree, initial encounter	DX	ICD-10-CM
S37.032A	Laceration of left kidney, unspecified degree, initial encounter	DX	ICD-10-CM
S37.039A	Laceration of unspecified kidney, unspecified degree, initial encounter	DX	ICD-10-CM
S37.041A	Minor laceration of right kidney, initial encounter	DX	ICD-10-CM
S37.042A	Minor laceration of left kidney, initial encounter	DX	ICD-10-CM
S37.049A	Minor laceration of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.051A	Moderate laceration of right kidney, initial encounter	DX	ICD-10-CM
S37.052A	Moderate laceration of left kidney, initial encounter	DX	ICD-10-CM
S37.059A	Moderate laceration of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.061A	Major laceration of right kidney, initial encounter	DX	ICD-10-CM
S37.062A	Major laceration of left kidney, initial encounter	DX	ICD-10-CM
S37.069A	Major laceration of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.091A	Other injury of right kidney, initial encounter	DX	ICD-10-CM
S37.092A	Other injury of left kidney, initial encounter	DX	ICD-10-CM
S37.099A	Other injury of unspecified kidney, initial encounter	DX	ICD-10-CM
S37.10XA	Unspecified injury of ureter, initial encounter	DX	ICD-10-CM
S37.12XA	Contusion of ureter, initial encounter	DX	ICD-10-CM
S37.13XA	Laceration of ureter, initial encounter	DX	ICD-10-CM
S37.19XA	Other injury of ureter, initial encounter	DX	ICD-10-CM
S37.20XA	Unspecified injury of bladder, initial encounter	DX	ICD-10-CM
S37.22XA	Contusion of bladder, initial encounter	DX	ICD-10-CM
S37.23XA	Laceration of bladder, initial encounter	DX	ICD-10-CM
S37.29XA	Other injury of bladder, initial encounter	DX	ICD-10-CM
S37.30XA	Unspecified injury of urethra, initial encounter	DX	ICD-10-CM
S37.32XA	Contusion of urethra, initial encounter	DX	ICD-10-CM
S37.33XA	Laceration of urethra, initial encounter	DX	ICD-10-CM
S37.39XA	Other injury of urethra, initial encounter	DX	ICD-10-CM
S37.401A	Unspecified injury of ovary, unilateral, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 369 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
S37.402A	Unspecified injury of ovary, bilateral, initial encounter	DX	ICD-10-CM
S37.409A	Unspecified injury of ovary, unspecified, initial encounter	DX	ICD-10-CM
S37.421A	Contusion of ovary, unilateral, initial encounter	DX	ICD-10-CM
S37.422A	Contusion of ovary, bilateral, initial encounter	DX	ICD-10-CM
S37.429A	Contusion of ovary, unspecified, initial encounter	DX	ICD-10-CM
S37.431A	Laceration of ovary, unilateral, initial encounter	DX	ICD-10-CM
S37.432A	Laceration of ovary, bilateral, initial encounter	DX	ICD-10-CM
S37.439A	Laceration of ovary, unspecified, initial encounter	DX	ICD-10-CM
S37.491A	Other injury of ovary, unilateral, initial encounter	DX	ICD-10-CM
S37.492A	Other injury of ovary, bilateral, initial encounter	DX	ICD-10-CM
S37.499A	Other injury of ovary, unspecified, initial encounter	DX	ICD-10-CM
S37.501A	Unspecified injury of fallopian tube, unilateral, initial encounter	DX	ICD-10-CM
S37.502A	Unspecified injury of fallopian tube, bilateral, initial encounter	DX	ICD-10-CM
S37.509A	Unspecified injury of fallopian tube, unspecified, initial encounter	DX	ICD-10-CM
S37.511A	Primary blast injury of fallopian tube, unilateral, initial encounter	DX	ICD-10-CM
S37.512A	Primary blast injury of fallopian tube, bilateral, initial encounter	DX	ICD-10-CM
S37.519A	Primary blast injury of fallopian tube, unspecified, initial encounter	DX	ICD-10-CM
S37.521A	Contusion of fallopian tube, unilateral, initial encounter	DX	ICD-10-CM
S37.522A	Contusion of fallopian tube, bilateral, initial encounter	DX	ICD-10-CM
S37.529A	Contusion of fallopian tube, unspecified, initial encounter	DX	ICD-10-CM
S37.531A	Laceration of fallopian tube, unilateral, initial encounter	DX	ICD-10-CM
S37.532A	Laceration of fallopian tube, bilateral, initial encounter	DX	ICD-10-CM
S37.539A	Laceration of fallopian tube, unspecified, initial encounter	DX	ICD-10-CM
S37.591A	Other injury of fallopian tube, unilateral, initial encounter	DX	ICD-10-CM
S37.592A	Other injury of fallopian tube, bilateral, initial encounter	DX	ICD-10-CM
S37.599A	Other injury of fallopian tube, unspecified, initial encounter	DX	ICD-10-CM
S37.60XA	Unspecified injury of uterus, initial encounter	DX	ICD-10-CM
S37.62XA	Contusion of uterus, initial encounter	DX	ICD-10-CM
S37.63XA	Laceration of uterus, initial encounter	DX	ICD-10-CM
S37.69XA	Other injury of uterus, initial encounter	DX	ICD-10-CM
S37.822A	Contusion of prostate, initial encounter	DX	ICD-10-CM
S37.823A	Laceration of prostate, initial encounter	DX	ICD-10-CM
S37.828A	Other injury of prostate, initial encounter	DX	ICD-10-CM
S37.829A	Unspecified injury of prostate, initial encounter	DX	ICD-10-CM
S37.892A	Contusion of other urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.893A	Laceration of other urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.898A	Other injury of other urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.899A	Unspecified injury of other urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.90XA	Unspecified injury of unspecified urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.92XA	Contusion of unspecified urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.93XA	Laceration of unspecified urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S37.99XA	Other injury of unspecified urinary and pelvic organ, initial encounter	DX	ICD-10-CM
S38.001A	Crushing injury of unspecified external genital organs, male, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 370 of 702



Code	Description	Code Type	Code Category
S38.002A	Crushing injury of unspecified external genital organs, female, initial encounter	DX	ICD-10-CM
S38.01XA	Crushing injury of penis, initial encounter	DX	ICD-10-CM
S38.02XA	Crushing injury of scrotum and testis, initial encounter	DX	ICD-10-CM
S38.03XA	Crushing injury of vulva, initial encounter	DX	ICD-10-CM
S38.1XXA	Crushing injury of abdomen, lower back, and pelvis, initial encounter	DX	ICD-10-CM
S42.001A	Fracture of unspecified part of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.001B	Fracture of unspecified part of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.002A	Fracture of unspecified part of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.002B	Fracture of unspecified part of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.009A	Fracture of unspecified part of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.009B	Fracture of unspecified part of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.011A	Anterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.011B	Anterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.012A	Anterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.012B	Anterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.013A	Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.013B	Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.014A	Posterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.014B	Posterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.015A	Posterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.015B	Posterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.016A	Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.016B	Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.017A	Nondisplaced fracture of sternal end of right clavicle, initial encounter for closed	DX	ICD-10-CM
S42.017B	Nondisplaced fracture of sternal end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.018A	Nondisplaced fracture of sternal end of left clavicle, initial encounter for closed fracture		ICD-10-CM
S42.018B	Nondisplaced fracture of sternal end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.019A	Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.019B	Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 371 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S42.021A	Displaced fracture of shaft of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.021B	Displaced fracture of shaft of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.022A	Displaced fracture of shaft of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.022B	Displaced fracture of shaft of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.023A	Displaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.023B	Displaced fracture of shaft of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.024A	Nondisplaced fracture of shaft of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.024B	Nondisplaced fracture of shaft of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.025A	Nondisplaced fracture of shaft of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.025B	Nondisplaced fracture of shaft of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.026A	Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for closed	DX	ICD-10-CM
S42.026B	Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for open	DX	ICD-10-CM
S42.031A	Displaced fracture of lateral end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.031B	Displaced fracture of lateral end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.032A	Displaced fracture of lateral end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.032B	Displaced fracture of lateral end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.033A	Displaced fracture of lateral end of unspecified clavicle, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.033B	Displaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.034A	Nondisplaced fracture of lateral end of right clavicle, initial encounter for closed	DX	ICD-10-CM
S42.034B	Nondisplaced fracture of lateral end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.035A	Nondisplaced fracture of lateral end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.035B	Nondisplaced fracture of lateral end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.036A	Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for closed	DX	ICD-10-CM
S42.036B	fracture  Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for open	DX	ICD-10-CM
342.0306	fracture	DX	ICD-10-CIVI
S42.101A	Fracture of unspecified part of scapula, right shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.101B	Fracture of unspecified part of scapula, right shoulder, initial encounter for open	DX	ICD-10-CM
S42.102A	Fracture of unspecified part of scapula, left shoulder, initial encounter for closed	DX	ICD-10-CM
S42.102B	Fracture of unspecified part of scapula, left shoulder, initial encounter for open fracture		ICD-10-CM
S42.109A	Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for	DX	ICD-10-CM
0.2.2007.	closed fracture		.02 20 0
S42.109B	Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for open	DX	ICD-10-CM
649.444	fracture	5.7	100 10 011
S42.111A	Displaced fracture of body of scapula, right shoulder, initial encounter for closed	DX	ICD-10-CM
S42.111B	Displaced fracture of body of scapula, right shoulder, initial encounter for open fracture		ICD-10-CM
S42.112A	Displaced fracture of body of scapula, left shoulder, initial encounter for closed fracture		ICD-10-CM
S42.112B	Displaced fracture of body of scapula, left shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.113A	Displaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 372 of 702



Code	Description	Code Type	Code Category
S42.113B	Displaced fracture of body of scapula, unspecified shoulder, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.114A	Nondisplaced fracture of body of scapula, right shoulder, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.114B	Nondisplaced fracture of body of scapula, right shoulder, initial encounter for open	DX	ICD-10-CM
C42 44EA	fracture	DV	ICD 10 CM
S42.115A	Nondisplaced fracture of body of scapula, left shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.115B	Nondisplaced fracture of body of scapula, left shoulder, initial encounter for open	DX	ICD-10-CM
142.1130	fracture	DX	ICD-10-CIVI
542.116A	Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for	DX	ICD-10-CM
7-12.110/1	closed fracture	DA	100 10 0101
S42.116B	Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for	DX	ICD-10-CM
	open fracture		
S42.121A	Displaced fracture of acromial process, right shoulder, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.121B	Displaced fracture of acromial process, right shoulder, initial encounter for open	DX	ICD-10-CM
642.122A	Displaced fracture of acromial process, left shoulder, initial encounter for closed	DX	ICD-10-CM
542.122B	Displaced fracture of acromial process, left shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.123A	Displaced fracture of acromial process, unspecified shoulder, initial encounter for	DX	ICD-10-CM
	closed fracture		
542.123B	Displaced fracture of acromial process, unspecified shoulder, initial encounter for open	DX	ICD-10-CM
	fracture		
642.124A	Nondisplaced fracture of acromial process, right shoulder, initial encounter for closed	DX	ICD-10-CM
. 42 42 45	fracture	BV.	100 40 604
542.124B	Nondisplaced fracture of acromial process, right shoulder, initial encounter for open	DX	ICD-10-CM
542 12FA	fracture  Nondisplaced fracture of acromial process, left shoulder, initial encounter for closed	DV	ICD 10 CM
542.125A	fracture	DX	ICD-10-CM
542.125B	Nondisplaced fracture of acromial process, left shoulder, initial encounter for open	DX	ICD-10-CM
742.1230	fracture	DX	ICD-10-CIVI
S42.126A	Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for	DX	ICD-10-CM
, , _ , _ ,	closed fracture		.02 20 0
S42.126B	Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for	DX	ICD-10-CM
	open fracture		
542.131A	Displaced fracture of coracoid process, right shoulder, initial encounter for closed	DX	ICD-10-CM
	fracture		
542.131B	Displaced fracture of coracoid process, right shoulder, initial encounter for open	DX	ICD-10-CM
642.132A	Displaced fracture of coracoid process, left shoulder, initial encounter for closed	DX	ICD-10-CM
S42.132B	Displaced fracture of coracoid process, left shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.133A	Displaced fracture of coracoid process, unspecified shoulder, initial encounter for	DX	ICD-10-CM
	closed fracture		

cder\_mpl2p\_wp047 Page 373 of 702



Code	Description	Code Type	Code Category
S42.133B	Displaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.134A	Nondisplaced fracture of coracoid process, right shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.134B	Nondisplaced fracture of coracoid process, right shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.135A	Nondisplaced fracture of coracoid process, left shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.135B	Nondisplaced fracture of coracoid process, left shoulder, initial encounter for open	DX	ICD-10-CM
S42.136A	fracture  Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for	DX	ICD-10-CM
S42.136B	closed fracture  Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for	DX	ICD-10-CM
S42.141A	open fracture  Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for	DX	ICD-10-CM
S42.141B	closed fracture  Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open	DX	ICD-10-CM
S42.142A	fracture  Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed	DX	ICD-10-CM
S42.142B	fracture  Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open	DX	ICD-10-CM
S42.143A	fracture  Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter	DX	ICD-10-CM
S42.143B	for closed fracture  Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.144A	Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.144B	Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for	DX	ICD-10-CM
S42.145A	open fracture  Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.145B	Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.146A	Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.146B	Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.151A	Displaced fracture of neck of scapula, right shoulder, initial encounter for closed	DX	ICD-10-CM
S42.151B	Displaced fracture of neck of scapula, right shoulder, initial encounter for open fracture		ICD-10-CM
S42.152A	Displaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture		ICD-10-CM
S42.152B	Displaced fracture of neck of scapula, left shoulder, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 374 of 702



tills reque			
Code	Description	Code Type	Code Category
S42.153A	Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.153B	Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.154A	Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.154B	Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.155A	Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.155B	Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.156A	Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.156B	Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.191A	Fracture of other part of scapula, right shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.191B	Fracture of other part of scapula, right shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.192A	Fracture of other part of scapula, left shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.192B	Fracture of other part of scapula, left shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.199A	Fracture of other part of scapula, unspecified shoulder, initial encounter for closed fracture	DX	ICD-10-CM
S42.199B	Fracture of other part of scapula, unspecified shoulder, initial encounter for open fracture	DX	ICD-10-CM
S42.201A	Unspecified fracture of upper end of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.201B	Unspecified fracture of upper end of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.202A	Unspecified fracture of upper end of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.202B	Unspecified fracture of upper end of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.209A	Unspecified fracture of upper end of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.209B	Unspecified fracture of upper end of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.211A	Unspecified displaced fracture of surgical neck of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.211B	Unspecified displaced fracture of surgical neck of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.212A	Unspecified displaced fracture of surgical neck of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.212B	Unspecified displaced fracture of surgical neck of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.213A	Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 375 of 702



Code	Description	Code Type	Code Category
S42.213B	Unspecified displaced fracture of surgical neck of unspecified humerus, initial	DX	ICD-10-CM
	encounter for open fracture		
S42.214A	Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.214B	Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.215A	Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.215B	Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.216A	Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.216B	Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.221A	2-part displaced fracture of surgical neck of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.221B	2-part displaced fracture of surgical neck of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.222A	2-part displaced fracture of surgical neck of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.222B	2-part displaced fracture of surgical neck of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.223A	2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.223B	2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.224A	2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.224B	2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.225A	2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.225B	2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.226A	2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.226B	2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.231A	3-part fracture of surgical neck of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.231B	3-part fracture of surgical neck of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.232A	3-part fracture of surgical neck of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.232B	3-part fracture of surgical neck of left humerus, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 376 of 702



Code	Description	Code Type	Code Category
S42.239A	3-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.239B	3-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.241A	4-part fracture of surgical neck of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.241B	4-part fracture of surgical neck of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.242A	4-part fracture of surgical neck of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.242B	4-part fracture of surgical neck of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.249A	4-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.249B	4-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.251A	Displaced fracture of greater tuberosity of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.251B	Displaced fracture of greater tuberosity of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.252A	Displaced fracture of greater tuberosity of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.252B	Displaced fracture of greater tuberosity of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.253A	Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.253B	Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.254A	Nondisplaced fracture of greater tuberosity of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.254B	Nondisplaced fracture of greater tuberosity of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.255A	Nondisplaced fracture of greater tuberosity of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.255B	Nondisplaced fracture of greater tuberosity of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.256A	Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.256B	Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.261A	Displaced fracture of lesser tuberosity of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.261B	Displaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.262A	Displaced fracture of lesser tuberosity of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.262B	Displaced fracture of lesser tuberosity of left humerus, initial encounter for open	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 377 of 702



Code	Description	Code Type	<b>Code Category</b>
S42.263A	Displaced fracture of lesser tuberosity of unspecified humerus, initial encounter for	DX	ICD-10-CM
	closed fracture		
S42.263B	Displaced fracture of lesser tuberosity of unspecified humerus, initial encounter for	DX	ICD-10-CM
C12 2611	open fracture  Nondisplaced fracture of lesser tuberosity of right humerus, initial encounter for closed	DV	ICD 10 CM
S42.264A	fracture	DX	ICD-10-CM
S42.264B	Nondisplaced fracture of lesser tuberosity of right humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.265A	Nondisplaced fracture of lesser tuberosity of left humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.265B	Nondisplaced fracture of lesser tuberosity of left humerus, initial encounter for open	DX	ICD-10-CM
C42 2CCA	fracture	DV	ICD 10 CM
S42.266A	Nondisplaced fracture of lesser tuberosity of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.266B	Nondisplaced fracture of lesser tuberosity of unspecified humerus, initial encounter for	DX	ICD-10-CM
	open fracture		
S42.271A	Torus fracture of upper end of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.272A	Torus fracture of upper end of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.279A	Torus fracture of upper end of unspecified humerus, initial encounter for closed	DX	ICD-10-CM
S42.291A	Other displaced fracture of upper end of right humerus, initial encounter for closed	DX	ICD-10-CM
C42 204 B	fracture	D.V	100 40 014
S42.291B	Other displaced fracture of upper end of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.292A	Other displaced fracture of upper end of left humerus, initial encounter for closed	DX	ICD-10-CM
3-12.232/	fracture	DA	100 10 0101
S42.292B	Other displaced fracture of upper end of left humerus, initial encounter for open	DX	ICD-10-CM
S42.293A	Other displaced fracture of upper end of unspecified humerus, initial encounter for	DX	ICD-10-CM
	closed fracture		
S42.293B	Other displaced fracture of upper end of unspecified humerus, initial encounter for	DX	ICD-10-CM
642 2044	open fracture	DV.	100 40 614
S42.294A	Other nondisplaced fracture of upper end of right humerus, initial encounter for closed	DX	ICD-10-CM
S42.294B	fracture Other nondisplaced fracture of upper end of right humerus, initial encounter for open	DX	ICD-10-CM
342.2346	fracture	DA	100 10 0101
S42.295A	Other nondisplaced fracture of upper end of left humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.295B	Other nondisplaced fracture of upper end of left humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.296A	Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for	DX	ICD-10-CM
S42.296B	closed fracture Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for	DX	ICD-10-CM
J74.43UD	open fracture	DA	ICD-TO-CIAI
S42.301A	Unspecified fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
	, , , , , , , , , , , , , , , , , , , ,		

cder\_mpl2p\_wp047 Page 378 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	<b>Code Category</b>
S42.301B	Unspecified fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.302A	Unspecified fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.302B	Unspecified fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.309A	Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.309B	Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.311A	Greenstick fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.312A	Greenstick fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.319A	Greenstick fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.321A	Displaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.321B	Displaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.322A	Displaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.322B	Displaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.323A	Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.323B	Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.324A	Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.324B	Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.325A	Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.325B	Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.326A	Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.326B	Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.331A	Displaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.331B	Displaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.332A	Displaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.332B	Displaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 379 of 702



tills reque			
Code	Description	Code Type	Code Category
S42.333A	Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.333B	Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.334A	Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.334B	Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.335A	Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.335B	Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.336A	Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.336B	Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.341A	Displaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.341B	Displaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.342A	Displaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.342B	Displaced spiral fracture of shaft of humerus, left arm, initial encounter for open	DX	ICD-10-CM
S42.343A	Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.343B	Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.344A	Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.344B	Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.345A	Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.345B	Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.346A	Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.346B	Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for	DX	ICD-10-CM
S42.351A	open fracture Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.351B	Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 380 of 702



tills reque			
Code	Description	Code Type	Code Category
S42.352A	Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.352B	Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.353A	Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.353B	Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.354A	Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.354B	Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.355A	Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.355B	Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.356A	Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.356B	Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial	DX	ICD-10-CM
S42.361A	encounter for open fracture  Displaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.361B	Displaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.362A	Displaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.362B	Displaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.363A	Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.363B	Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture	DX	ICD-10-CM
S42.364A	Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.364B	Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture	DX	ICD-10-CM
S42.365A	Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S42.365B	Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture	DX	ICD-10-CM
S42.366A	Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 381 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
S42.366B	Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial	DX	ICD-10-CM
	encounter for open fracture		
S42.391A	Other fracture of shaft of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.391B	Other fracture of shaft of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.392A	Other fracture of shaft of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.392B	Other fracture of shaft of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.399A	Other fracture of shaft of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.399B	Other fracture of shaft of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.401A	Unspecified fracture of lower end of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.401B	Unspecified fracture of lower end of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.402A	Unspecified fracture of lower end of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.402B	Unspecified fracture of lower end of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.409A	Unspecified fracture of lower end of unspecified humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.409B	Unspecified fracture of lower end of unspecified humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.411A	Displaced simple supracondylar fracture without intercondylar fracture of right	DX	ICD-10-CM
	humerus, initial encounter for closed fracture		
S42.411B	Displaced simple supracondylar fracture without intercondylar fracture of right	DX	ICD-10-CM
	humerus, initial encounter for open fracture		
S42.412A	Displaced simple supracondylar fracture without intercondylar fracture of left humerus,	DX	ICD-10-CM
	initial encounter for closed fracture		
S42.412B	Displaced simple supracondylar fracture without intercondylar fracture of left humerus,	DX	ICD-10-CM
	initial encounter for open fracture		
S42.413A	Displaced simple supracondylar fracture without intercondylar fracture of unspecified	DX	ICD-10-CM
	humerus, initial encounter for closed fracture		
S42.413B	Displaced simple supracondylar fracture without intercondylar fracture of unspecified	DX	ICD-10-CM
	humerus, initial encounter for open fracture		
S42.414A	Nondisplaced simple supracondylar fracture without intercondylar fracture of right	DX	ICD-10-CM
	humerus, initial encounter for closed fracture		
S42.414B	Nondisplaced simple supracondylar fracture without intercondylar fracture of right	DX	ICD-10-CM
	humerus, initial encounter for open fracture		
S42.415A	Nondisplaced simple supracondylar fracture without intercondylar fracture of left	DX	ICD-10-CM
	humerus, initial encounter for closed fracture		
S42.415B	Nondisplaced simple supracondylar fracture without intercondylar fracture of left	DX	ICD-10-CM
	humerus, initial encounter for open fracture		
S42.416A	Nondisplaced simple supracondylar fracture without intercondylar fracture of	DX	ICD-10-CM
	unspecified humerus, initial encounter for closed fracture		
S42.416B	Nondisplaced simple supracondylar fracture without intercondylar fracture of	DX	ICD-10-CM
	unspecified humerus, initial encounter for open fracture		
S42.421A	Displaced comminuted supracondylar fracture without intercondylar fracture of right	DX	ICD-10-CM
	humerus, initial encounter for closed fracture		

cder\_mpl2p\_wp047 Page 382 of 702



tills reques			
Code	Description	Code Type	Code Category
S42.421B	Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.422A	Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.422B	Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.423A	Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.423B	Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.424A	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.424B	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.425A	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.425B	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.426A	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.426B	Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.431A	Displaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.431B	Displaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.432A	Displaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.432B		DX	ICD-10-CM
S42.433A	Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.433B	Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.434A	Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.434B	Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.435A	Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.435B	Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 383 of 702



Code	Description	Code Type	Code Category
S42.436A	Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial	DX	ICD-10-CM
	encounter for closed fracture		
S42.436B	Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial	DX	ICD-10-CM
	encounter for open fracture		
S42.441A	Displaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter	DX	ICD-10-CM
	for closed fracture		
S42.441B	Displaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter	DX	ICD-10-CM
	for open fracture		
S42.442A	Displaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.442B	Displaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for	DX	ICD-10-CM
342.4420	open fracture	DX	ICD-10-CIVI
S42.443A	Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial	DX	ICD-10-CM
	encounter for closed fracture		
S42.443B	Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial	DX	ICD-10-CM
	encounter for open fracture		
S42.444A	Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, initial	DX	ICD-10-CM
	encounter for closed fracture		
S42.444B	Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, initial	DX	ICD-10-CM
	encounter for open fracture		
S42.445A	Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter	DX	ICD-10-CM
C42 44ED	for closed fracture	DV	100 40 614
S42.445B	Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter	DX	ICD-10-CM
S42.446A	for open fracture  Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial	DX	ICD-10-CM
342.440A	encounter for closed fracture	DX	ICD-10-CIVI
S42.446B	Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial	DX	ICD-10-CM
312.1100	encounter for open fracture		ICD 10 CIVI
S42.447A	Incarcerated fracture (avulsion) of medial epicondyle of right humerus, initial encounter	DX	ICD-10-CM
	for closed fracture		
S42.447B	Incarcerated fracture (avulsion) of medial epicondyle of right humerus, initial encounter	DX	ICD-10-CM
	for open fracture		
S42.448A	Incarcerated fracture (avulsion) of medial epicondyle of left humerus, initial encounter	DX	ICD-10-CM
	for closed fracture		
S42.448B	Incarcerated fracture (avulsion) of medial epicondyle of left humerus, initial encounter	DX	ICD-10-CM
	for open fracture		
S42.449A	Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, initial	DX	ICD-10-CM
C/12 // ADD	encounter for closed fracture	DV	ICD 10 CM
S42.449B	Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.451A	Displaced fracture of lateral condyle of right humerus, initial encounter for closed	DX	ICD-10-CM
J-12131A	fracture		ICD 10 CIVI
S42.451B	Displaced fracture of lateral condyle of right humerus, initial encounter for open	DX	ICD-10-CM
	. 3		

cder\_mpl2p\_wp047 Page 384 of 702



Code	Description	Code Type	<b>Code Category</b>
S42.452A	Displaced fracture of lateral condyle of left humerus, initial encounter for closed	DX	ICD-10-CM
S42.452B	Displaced fracture of lateral condyle of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.453A	Displaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.453B	Displaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.454A	Nondisplaced fracture of lateral condyle of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.454B	Nondisplaced fracture of lateral condyle of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.455A	Nondisplaced fracture of lateral condyle of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.455B	Nondisplaced fracture of lateral condyle of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.456A	Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.456B	Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.461A	Displaced fracture of medial condyle of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.461B	Displaced fracture of medial condyle of right humerus, initial encounter for open	DX	ICD-10-CM
S42.462A	Displaced fracture of medial condyle of left humerus, initial encounter for closed	DX	ICD-10-CM
S42.462B	Displaced fracture of medial condyle of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.463A	Displaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.463B	Displaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.464A	Nondisplaced fracture of medial condyle of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.464B	Nondisplaced fracture of medial condyle of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.465A	Nondisplaced fracture of medial condyle of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.465B	Nondisplaced fracture of medial condyle of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.466A	Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.466B	Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.471A	Displaced transcondylar fracture of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.471B	Displaced transcondylar fracture of right humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.472A	Displaced transcondylar fracture of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.472B	Displaced transcondylar fracture of left humerus, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 385 of 702



Code	Description	Code Type	Code Category
S42.473A	Displaced transcondylar fracture of unspecified humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.473B	Displaced transcondylar fracture of unspecified humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.474A	Nondisplaced transcondylar fracture of right humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.474B	Nondisplaced transcondylar fracture of right humerus, initial encounter for open	DX	ICD-10-CM
S42.475A	Nondisplaced transcondylar fracture of left humerus, initial encounter for closed	DX	ICD-10-CM
S42.475B	Nondisplaced transcondylar fracture of left humerus, initial encounter for open fracture	DX	ICD-10-CM
S42.476A	Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for	DX	ICD-10-CM
	closed fracture		
S42.476B	Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.481A	Torus fracture of lower end of right humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.482A	Torus fracture of lower end of left humerus, initial encounter for closed fracture	DX	ICD-10-CM
S42.489A	Torus fracture of lower end of unspecified humerus, initial encounter for closed	DX	ICD-10-CM
S42.491A	Other displaced fracture of lower end of right humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.491B	Other displaced fracture of lower end of right humerus, initial encounter for open	DX	ICD-10-CM
C42 4024	fracture	DV	ICD 40 CM
S42.492A	Other displaced fracture of lower end of left humerus, initial encounter for closed	DX	ICD-10-CM
C42 402D	fracture Other displaced fracture of lower and of left humarus, initial encounter for one	DV	ICD 10 CM
S42.492B S42.493A	Other displaced fracture of lower end of left humerus, initial encounter for open Other displaced fracture of lower end of unspecified humerus, initial encounter for	DX DX	ICD-10-CM ICD-10-CM
342.493A	closed fracture	DX	ICD-10-CIVI
S42.493B	Other displaced fracture of lower end of unspecified humerus, initial encounter for	DX	ICD-10-CM
	open fracture		
S42.494A	Other nondisplaced fracture of lower end of right humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.494B	Other nondisplaced fracture of lower end of right humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.495A	Other nondisplaced fracture of lower end of left humerus, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.495B	Other nondisplaced fracture of lower end of left humerus, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.496A	Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for	DX	ICD-10-CM
	closed fracture	51/	100 40 014
S42.496B	Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for	DX	ICD-10-CM
C42 00V4	open fracture	DV	100 40 614
S42.90XA	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed	DX	ICD-10-CM
C42 00VP	fracture	DV	ICD 40 CM
S42.90XB	Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open	DX	ICD-10-CM
	fracture		

cder\_mpl2p\_wp047 Page 386 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	<b>Code Category</b>
S42.91XA	Fracture of right shoulder girdle, part unspecified, initial encounter for closed fracture	DX	ICD-10-CM
S42.91XB	Fracture of right shoulder girdle, part unspecified, initial encounter for open fracture	DX	ICD-10-CM
S42.92XA	Fracture of left shoulder girdle, part unspecified, initial encounter for closed fracture	DX	ICD-10-CM
S42.92XB	Fracture of left shoulder girdle, part unspecified, initial encounter for open fracture	DX	ICD-10-CM
S47.1XXA	Crushing injury of right shoulder and upper arm, initial encounter	DX	ICD-10-CM
S47.2XXA	Crushing injury of left shoulder and upper arm, initial encounter	DX	ICD-10-CM
S47.9XXA	Crushing injury of shoulder and upper arm, unspecified arm, initial encounter	DX	ICD-10-CM
S49.001A	Unspecified physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.002A	Unspecified physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.009A	Unspecified physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.011A	Salter-Harris Type I physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.012A	Salter-Harris Type I physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.019A	Salter-Harris Type I physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.021A	Salter-Harris Type II physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.022A	Salter-Harris Type II physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.029A	Salter-Harris Type II physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.031A	Salter-Harris Type III physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.032A	Salter-Harris Type III physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.039A	Salter-Harris Type III physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.041A	Salter-Harris Type IV physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.042A	Salter-Harris Type IV physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.049A	Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.091A	Other physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.092A	Other physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.099A	Other physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 387 of 702



Code	Description	Code Type	Code Category
S49.101A	Unspecified physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.102A	Unspecified physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.109A	Unspecified physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.111A	Salter-Harris Type I physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.112A	Salter-Harris Type I physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.119A	Salter-Harris Type I physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.121A	Salter-Harris Type II physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.122A	Salter-Harris Type II physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.129A	Salter-Harris Type II physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.131A	Salter-Harris Type III physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.132A	Salter-Harris Type III physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.139A	Salter-Harris Type III physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.141A	Salter-Harris Type IV physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.142A	Salter-Harris Type IV physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.149A	Salter-Harris Type IV physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.191A	Other physeal fracture of lower end of humerus, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.192A	Other physeal fracture of lower end of humerus, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S49.199A	Other physeal fracture of lower end of humerus, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.001A	Unspecified fracture of upper end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.001B	Unspecified fracture of upper end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.001C	Unspecified fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.002A	Unspecified fracture of upper end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 388 of 702



Code	Description	Code Type	Code Category
S52.002B	Unspecified fracture of upper end of left ulna, initial encounter for open fracture type I	DX	ICD-10-CM
332.0026	or II	DX	ICD-10-CIVI
S52.002C	Unspecified fracture of upper end of left ulna, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S52.009A	Unspecified fracture of upper end of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.009B	Unspecified fracture of upper end of unspecified ulna, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.009C	Unspecified fracture of upper end of unspecified ulna, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.011A	Torus fracture of upper end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.012A	Torus fracture of upper end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.019A	Torus fracture of upper end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.021A	Displaced fracture of olecranon process without intraarticular extension of right ulna,	DX	ICD-10-CM
	initial encounter for closed fracture		
S52.021B	Displaced fracture of olecranon process without intraarticular extension of right ulna,	DX	ICD-10-CM
	initial encounter for open fracture type I or II		
S52.021C	Displaced fracture of olecranon process without intraarticular extension of right ulna,	DX	ICD-10-CM
	initial encounter for open fracture type IIIA, IIIB, or IIIC		
S52.022A	Displaced fracture of olecranon process without intraarticular extension of left ulna,	DX	ICD-10-CM
CE2 022B	initial encounter for closed fracture	57	160 40 614
S52.022B	Displaced fracture of olecranon process without intraarticular extension of left ulna,	DX	ICD-10-CM
CE2 022C	initial encounter for open fracture type I or II	DV	ICD 10 CM
S52.022C	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.023A	Displaced fracture of olecranon process without intraarticular extension of unspecified	DX	ICD-10-CM
332.023A	ulna, initial encounter for closed fracture	DX	ICD-10-CIVI
S52.023B	Displaced fracture of olecranon process without intraarticular extension of unspecified	DX	ICD-10-CM
332.0236	ulna, initial encounter for open fracture type I or II	DX	ICD TO CIVI
S52.023C	Displaced fracture of olecranon process without intraarticular extension of unspecified	DX	ICD-10-CM
002.0200	ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC		.02 20 0
S52.024A	Nondisplaced fracture of olecranon process without intraarticular extension of right	DX	ICD-10-CM
	ulna, initial encounter for closed fracture		
S52.024B	Nondisplaced fracture of olecranon process without intraarticular extension of right	DX	ICD-10-CM
	ulna, initial encounter for open fracture type I or II		
S52.024C	Nondisplaced fracture of olecranon process without intraarticular extension of right	DX	ICD-10-CM
	ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC		
S52.025A	Nondisplaced fracture of olecranon process without intraarticular extension of left	DX	ICD-10-CM
	ulna, initial encounter for closed fracture		
S52.025B	Nondisplaced fracture of olecranon process without intraarticular extension of left	DX	ICD-10-CM
	ulna, initial encounter for open fracture type I or II		
S52.025C	Nondisplaced fracture of olecranon process without intraarticular extension of left	DX	ICD-10-CM
	ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC		

cder\_mpl2p\_wp047 Page 389 of 702



Code	Description	Code Type	Code Category
S52.026A	Nondisplaced fracture of olecranon process without intraarticular extension of	DX	ICD-10-CM
	unspecified ulna, initial encounter for closed fracture		
S52.026B	Nondisplaced fracture of olecranon process without intraarticular extension of	DX	ICD-10-CM
	unspecified ulna, initial encounter for open fracture type I or II		
S52.026C	Nondisplaced fracture of olecranon process without intraarticular extension of	DX	ICD-10-CM
	unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC		
S52.031A	Displaced fracture of olecranon process with intraarticular extension of right ulna,	DX	ICD-10-CM
CE2 024B	initial encounter for closed fracture	DV	100 40 614
S52.031B	Displaced fracture of olecranon process with intraarticular extension of right ulna,	DX	ICD-10-CM
CE2 021C	initial encounter for open fracture type I or II	DV	ICD 10 CM
S52.031C	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.032A	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial	DX	ICD-10-CM
332.032A	encounter for closed fracture	DX	ICD-10-CIVI
S52.032B	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial	DX	ICD-10-CM
002.0022	encounter for open fracture type I or II		.02 20 0
S52.032C	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial	DX	ICD-10-CM
	encounter for open fracture type IIIA, IIIB, or IIIC		
S52.033A	Displaced fracture of olecranon process with intraarticular extension of unspecified	DX	ICD-10-CM
	ulna, initial encounter for closed fracture		
S52.033B	Displaced fracture of olecranon process with intraarticular extension of unspecified	DX	ICD-10-CM
	ulna, initial encounter for open fracture type I or II		
S52.033C	Displaced fracture of olecranon process with intraarticular extension of unspecified	DX	ICD-10-CM
	ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC		
S52.034A	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna,	DX	ICD-10-CM
	initial encounter for closed fracture		
S52.034B	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna,	DX	ICD-10-CM
CE2 0246	initial encounter for open fracture type I or II	<b>5</b> 1/	100 40 614
S52.034C	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna,	DX	ICD-10-CM
S52.035A	initial encounter for open fracture type IIIA, IIIB, or IIIC  Nondisplaced fracture of olecranon process with intraarticular extension of left ulna,	DX	ICD-10-CM
352.USSA	initial encounter for closed fracture	DΛ	ICD-10-CIVI
S52.035B	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna,	DX	ICD-10-CM
332.0335	initial encounter for open fracture type I or II	DA	TCD TO CIVI
S52.035C	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna,	DX	ICD-10-CM
	initial encounter for open fracture type IIIA, IIIB, or IIIC		
S52.036A	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified	DX	ICD-10-CM
	ulna, initial encounter for closed fracture		
S52.036B	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified	DX	ICD-10-CM
	ulna, initial encounter for open fracture type I or II		
S52.036C	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified	DX	ICD-10-CM
	ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC		
S52.041A	Displaced fracture of coronoid process of right ulna, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 390 of 702



Code	Description	Code Type	Code Category
S52.041B	Displaced fracture of coronoid process of right ulna, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.041C	Displaced fracture of coronoid process of right ulna, initial encounter for open fracture	DX	ICD-10-CM
S52.042A	type IIIA, IIIB, or IIIC  Displaced fracture of coronoid process of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.042A	Displaced fracture of coronoid process of left ulna, initial encounter for closed fracture  Displaced fracture of coronoid process of left ulna, initial encounter for open fracture	DX	ICD-10-CM
332.0425	type I or II	D/K	100 10 0101
S52.042C	Displaced fracture of coronoid process of left ulna, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.043A	Displaced fracture of coronoid process of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.043B	Displaced fracture of coronoid process of unspecified ulna, initial encounter for open	DX	ICD-10-CM
S52.043C	fracture type I or II  Displaced fracture of coronoid process of unspecified ulna, initial encounter for open	DX	ICD-10-CM
332.043C	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.044A	Nondisplaced fracture of coronoid process of right ulna, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.044B	Nondisplaced fracture of coronoid process of right ulna, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.044C	Nondisplaced fracture of coronoid process of right ulna, initial encounter for open	DX	ICD-10-CM
CE2 04E4	fracture type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S52.045A	Nondisplaced fracture of coronoid process of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.045B	Nondisplaced fracture of coronoid process of left ulna, initial encounter for open	DX	ICD-10-CM
332.0 132	fracture type I or II		100 10 0111
S52.045C	Nondisplaced fracture of coronoid process of left ulna, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.046A	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for	DX	ICD-10-CM
	closed fracture	5.7	100 10 011
S52.046B	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for	DX	ICD-10-CM
S52.046C	open fracture type I or II  Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for	DX	ICD-10-CM
332.0400	open fracture type IIIA, IIIB, or IIIC	DA	ICD TO CIVI
S52.091A	Other fracture of upper end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.091B	Other fracture of upper end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.091C	Other fracture of upper end of right ulna, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S52.092A	Other fracture of upper end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.092B	Other fracture of upper end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.092C	Other fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.099A	Other fracture of upper end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
	2 mar martin de apper en a en anaparmen ama, minar en adamenter for diodea material	<i></i> ,	.02 20 0

cder\_mpl2p\_wp047 Page 391 of 702



6. 4.	Description.	6-1-7	6-4-6
Code	Description Other factors of control of cont	Code Type	Code Category
S52.099B	Other fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.099C	Other fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.101A	Unspecified fracture of upper end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.101B	Unspecified fracture of upper end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.101C	Unspecified fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.102A	Unspecified fracture of upper end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.102B	Unspecified fracture of upper end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.102C	Unspecified fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.109A	Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.109B	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.109C	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.111A	Torus fracture of upper end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.112A	Torus fracture of upper end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.119A	Torus fracture of upper end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.121A	Displaced fracture of head of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.121B	Displaced fracture of head of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.121C	Displaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.122A	Displaced fracture of head of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.122B	Displaced fracture of head of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.122C	Displaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.123A	Displaced fracture of head of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.123B	Displaced fracture of head of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.123C	Displaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.124A	Nondisplaced fracture of head of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.124B	Nondisplaced fracture of head of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.124C	Nondisplaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.125A	Nondisplaced fracture of head of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.125B	Nondisplaced fracture of head of left radius, initial encounter for open fracture type I or	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 392 of 702



Code	Description	Code Type	Code Category
S52.125C	Nondisplaced fracture of head of left radius, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S52.126A	Nondisplaced fracture of head of unspecified radius, initial encounter for closed	DX	ICD-10-CM
S52.126B	Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.126C	Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.131A	Displaced fracture of neck of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.131B	Displaced fracture of neck of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.131C	Displaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.132A	Displaced fracture of neck of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.132B	Displaced fracture of neck of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.132C	Displaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.133A	Displaced fracture of neck of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.133B	Displaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.133C	Displaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.134A	Nondisplaced fracture of neck of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.134B	Nondisplaced fracture of neck of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.134C	Nondisplaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.135A	Nondisplaced fracture of neck of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.135B	Nondisplaced fracture of neck of left radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.135C	Nondisplaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.136A	Nondisplaced fracture of neck of unspecified radius, initial encounter for closed	DX	ICD-10-CM
S52.136B	Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.136C	Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.181A	Other fracture of upper end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.181B	Other fracture of upper end of right radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.181C	Other fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.182A	Other fracture of upper end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.182B	Other fracture of upper end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.182C	Other fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.189A	Other fracture of upper end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 393 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

this keque	St.		
Code	Description	Code Type	Code Category
S52.189B	Other fracture of upper end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.189C	Other fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.201A	Unspecified fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.201B	Unspecified fracture of shaft of right ulna, initial encounter for open fracture type I or II		ICD-10-CM
S52.201C	Unspecified fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.202A	Unspecified fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.202B	Unspecified fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.202C	Unspecified fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.209A	Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.209B	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.209C	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.211A	Greenstick fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.212A	Greenstick fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.219A	Greenstick fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.221A	Displaced transverse fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.221B	Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.221C	Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.222A	Displaced transverse fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.222B	Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.222C	Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.223A	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.223B	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.223C	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.224A	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.224B	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.224C	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.225A	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for closed	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 394 of 702



Code	Description	Code Type	<b>Code Category</b>
S52.225B	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.225C	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for open	DX	ICD-10-CM
CE2 22CA	fracture type IIIA, IIIB, or IIIC	DV	ICD 40 CM
S52.226A	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.226B	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for open	DX	ICD-10-CM
332.2200	fracture type I or II	D.A.	TCD TO CIVI
S52.226C	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.231A	Displaced oblique fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.231B	Displaced oblique fracture of shaft of right ulna, initial encounter for open fracture type	DX	ICD-10-CM
	l or II		
S52.231C	Displaced oblique fracture of shaft of right ulna, initial encounter for open fracture type	DX	ICD-10-CM
CE2 2224	IIIA, IIIB, or IIIC	DV	100 40 CM
S52.232A S52.232B	Displaced oblique fracture of shaft of left ulna, initial encounter for closed fracture  Displaced oblique fracture of shaft of left ulna, initial encounter for open fracture type I	DX	ICD-10-CM ICD-10-CM
332.232b	or II	DX	ICD-10-CIVI
S52.232C	Displaced oblique fracture of shaft of left ulna, initial encounter for open fracture type	DX	ICD-10-CM
002.2020	IIIA, IIIB, or IIIC		.02 20 0
S52.233A	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.233B	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.233C	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for open	DX	ICD-10-CM
CE2 2244	fracture type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S52.234A S52.234B	Nondisplaced oblique fracture of shaft of right ulna, initial encounter for closed fracture Nondisplaced oblique fracture of shaft of right ulna, initial encounter for open fracture		ICD-10-CM ICD-10-CM
332.2346	type I or II	DX	ICD-10-CIVI
S52.234C	Nondisplaced oblique fracture of shaft of right ulna, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.235A	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.235B	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.235C	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC	51/	100 40 014
S52.236A	Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
S52.236B	fracture  Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for open	DX	ICD-10-CM
332.2300	fracture type I or II	DX	ICD-10-CIVI
S52.236C	Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.241A	Displaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 395 of 702



Code	Description	Code Type	Code Category
S52.241B	Displaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture	DX	ICD-10-CM
S52.241C	type I or II  Displaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture	DX	ICD-10-CM
332.2410	type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.242A	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.242B	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.242C	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.243A	Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed	DX	ICD-10-CM
S52.243B	fracture  Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open	DX	ICD-10-CM
332.2430	fracture type I or II	DX	ICD-10-CIVI
S52.243C	Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.244A	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.244B	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for open	DX	ICD-10-CM
CE2 244C	fracture type I or II	DV	ICD 10 CM
S52.244C	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.245A	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.245B	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.245C	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.246A	Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for	DX	ICD-10-CM
S52.246B	closed fracture  Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open	DX	ICD-10-CM
332.2400	fracture type I or II	DX	ICD-10-CIVI
S52.246C	Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.251A	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.251B	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for open	DX	ICD-10-CM
CE2 251C	fracture type I or II	DV	ICD 10 CM
S52.251C	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.252A	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed	DX	ICD-10-CM
	fracture	= * *	.02 10 0
S52.252B	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		

cder\_mpl2p\_wp047 Page 396 of 702



tills reque			
Code	Description	Code Type	Code Category
S52.252C	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.253A	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.253B	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.253C	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.254A	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.254B	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.254C	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.255A	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.255B	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.255C	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.256A	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.256B	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.256C	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.261A	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.261B	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.261C	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.262A	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.262B	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.262C	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.263A	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.263B	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 397 of 702



Code	Description	Code Type	Code Category
S52.263C	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S52.264A		DX	ICD-10-CM
	fracture		
S52.264B	Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for open	DX	ICD-10-CM
	fracture type I or II	5.4	105 10 011
S52.264C	Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for open	DX	ICD-10-CM
CE2 2CE4	fracture type IIIA, IIIB, or IIIC	DV	100 40 614
S52.265A	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for closed	DX	ICD-10-CM
CE3 26ED	fracture	DV	ICD 10 CM
S52.265B	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.265C	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for open	DX	ICD-10-CM
332.2030	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.266A	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for	DX	ICD-10-CM
332.200A	closed fracture	DA	ICD 10 CIVI
S52.266B	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for	DX	ICD-10-CM
	open fracture type I or II		
S52.266C	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S52.271A	Monteggia's fracture of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.271B	Monteggia's fracture of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.271C	Monteggia's fracture of right ulna, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.272A	Monteggia's fracture of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.272B	Monteggia's fracture of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.272C	Monteggia's fracture of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.279A	Monteggia's fracture of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.279B	Monteggia's fracture of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.279C	Monteggia's fracture of unspecified ulna, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S52.281A	Bent bone of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.281B	Bent bone of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.281C	Bent bone of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.282A	Bent bone of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.282B	Bent bone of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.282C	Bent bone of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.283A	Bent bone of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.283B	Bent bone of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.283C	Bent bone of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.291A	Other fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.291B	Other fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.291C	Other fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	עע	ICD-10-CM
	me		

cder\_mpl2p\_wp047 Page 398 of 702



Code	Description	Code Type	<b>Code Category</b>
S52.292A	Other fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.292B	Other fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.292C	Other fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.299A	Other fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.299B	Other fracture of shaft of unspecified ulna, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.299C	Other fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.301A	Unspecified fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.301B	Unspecified fracture of shaft of right radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.301C	Unspecified fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.302A	Unspecified fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.302B	Unspecified fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.302C	Unspecified fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.309A	Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.309B	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.309C	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.311A	Greenstick fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.312A	Greenstick fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.319A	Greenstick fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.321A	Displaced transverse fracture of shaft of right radius, initial encounter for closed	DX	ICD-10-CM
S52.321B	Displaced transverse fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.321C	Displaced transverse fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.322A	Displaced transverse fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.322B	Displaced transverse fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.322C	Displaced transverse fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.323A	Displaced transverse fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.323B	Displaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.323C	Displaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.324A	Nondisplaced transverse fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 399 of 702



tills reque	<del>,</del>		
Code	Description	Code Type	Code Category
S52.324B	Nondisplaced transverse fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.324C	Nondisplaced transverse fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.325A	Nondisplaced transverse fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.325B	Nondisplaced transverse fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.325C	Nondisplaced transverse fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.326A	Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.326B	Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.326C	Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.331A	Displaced oblique fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.331B	Displaced oblique fracture of shaft of right radius, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.331C	Displaced oblique fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.332A	Displaced oblique fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.332B	Displaced oblique fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.332C	Displaced oblique fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.333A	Displaced oblique fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.333B	Displaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.333C	Displaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.334A	Nondisplaced oblique fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.334B	Nondisplaced oblique fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.334C	Nondisplaced oblique fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.335A	Nondisplaced oblique fracture of shaft of left radius, initial encounter for closed	DX	ICD-10-CM
S52.335B	Nondisplaced oblique fracture of shaft of left radius, initial encounter for open fracture		ICD-10-CM
S52.335C	type I or II Nondisplaced oblique fracture of shaft of left radius, initial encounter for open fracture		ICD-10-CM
	type IIIA, IIIB, or IIIC		

cder\_mpl2p\_wp047 Page 400 of 702



Code	Description	Code Type	Code Category
S52.336A	Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.336B	Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.336C	Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.341A	Displaced spiral fracture of shaft of radius, right arm, initial encounter for closed	DX	ICD-10-CM
S52.341B	Displaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.341C	Displaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.342A	Displaced spiral fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.342B	Displaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.342C	Displaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.343A	Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.343B	Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.343C	Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.344A	Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.344B	Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.344C	Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.345A	Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.345B	Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.345C	Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.346A	Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.346B	Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.346C	Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.351A	Displaced comminuted fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 401 of 702



tills reques			
Code	Description	Code Type	Code Category
S52.351B	Displaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.351C	Displaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.352A	Displaced comminuted fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.352B	Displaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.352C	Displaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.353A	Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.353B	Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.353C	Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.354A	Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.354B	Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.354C	Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.355A	Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.355B	Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.355C	Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.356A	Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.356B	Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.356C	Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.361A	Displaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.361B	Displaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.361C	Displaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.362A	Displaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 402 of 702



Code	Description	Code Type	Code Category
S52.362B	Displaced segmental fracture of shaft of radius, left arm, initial encounter for open	DX	ICD-10-CM
332.3020	fracture type I or II	DX	ICD-10-CIVI
S52.362C	Displaced segmental fracture of shaft of radius, left arm, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.363A	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for	DX	ICD-10-CM
	closed fracture		
S52.363B	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for	DX	ICD-10-CM
	open fracture type I or II		
S52.363C	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S52.364A	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for	DX	ICD-10-CM
	closed fracture		
S52.364B	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.364C	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for open	DX	ICD-10-CM
CE2 2CE4	fracture type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S52.365A	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for closed	DX	ICD-10-CM
S52.365B	fracture  Nondiculated compensal fracture of chaft of radius, left arm, initial encounter for one)	DX	ICD 10 CM
332.303B	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.365C	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open	DX	ICD-10-CM
332.3030	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.366A	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter	DX	ICD-10-CM
002.0007	for closed fracture		.02 20 0
S52.366B	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter	DX	ICD-10-CM
	for open fracture type I or II		
S52.366C	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter	DX	ICD-10-CM
	for open fracture type IIIA, IIIB, or IIIC		
S52.371A	Galeazzi's fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.371B	Galeazzi's fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.371C	Galeazzi's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.372A	Galeazzi's fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.372B	Galeazzi's fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.372C	Galeazzi's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.379A	Galeazzi's fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.379B	Galeazzi's fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.379C	Galeazzi's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.381A	Bent bone of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.381B	Bent bone of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.381C	Bent bone of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.382A	Bent bone of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.382B	Bent bone of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 403 of 702



Code	Description	Code Type	Code Category
S52.382C	Bent bone of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.389A	Bent bone of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.389B	Bent bone of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.389C	Bent bone of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.391A	Other fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.391B	Other fracture of shaft of radius, right arm, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.391C	Other fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.392A	Other fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.392B	Other fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.392C	Other fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.399A	Other fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.399B	Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.399C	Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.501A	Unspecified fracture of the lower end of right radius, initial encounter for closed	DX	ICD-10-CM
S52.501B	Unspecified fracture of the lower end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.501C	Unspecified fracture of the lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.502A	Unspecified fracture of the lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.502B	Unspecified fracture of the lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.502C	Unspecified fracture of the lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.509A	Unspecified fracture of the lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.509B	Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.509C	Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.511A	Displaced fracture of right radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.511B	Displaced fracture of right radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.511C	Displaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.512A	Displaced fracture of left radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.512B	Displaced fracture of left radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.512C	Displaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 404 of 702



Code	Description	Code Type	Code Category
S52.513A	Displaced fracture of unspecified radial styloid process, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.513B	Displaced fracture of unspecified radial styloid process, initial encounter for open	DX	ICD-10-CM
652 5426	fracture type I or II	DV	100 40 604
S52.513C	Displaced fracture of unspecified radial styloid process, initial encounter for open	DX	ICD-10-CM
CF2 F14A	fracture type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S52.514A	Nondisplaced fracture of right radial styloid process, initial encounter for closed	DX	ICD-10-CM
S52.514B	Nondisplaced fracture of right radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.514C	Nondisplaced fracture of right radial styloid process, initial encounter for open fracture	DV	ICD-10-CM
332.3140	type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.515A	Nondisplaced fracture of left radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.515A	Nondisplaced fracture of left radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
332.3130	type I or II	DX	ICD-10-CIVI
S52.515C	Nondisplaced fracture of left radial styloid process, initial encounter for open fracture	DX	ICD-10-CM
332.3130	type IIIA, IIIB, or IIIC	DX	100 10 0111
S52.516A	Nondisplaced fracture of unspecified radial styloid process, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.516B	Nondisplaced fracture of unspecified radial styloid process, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.516C	Nondisplaced fracture of unspecified radial styloid process, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.521A	Torus fracture of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.522A	Torus fracture of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.529A	Torus fracture of lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.531A	Colles' fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.531B	Colles' fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.531C	Colles' fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.532A	Colles' fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.532B	Colles' fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.532C	Colles' fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.539A	Colles' fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.539B	Colles' fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.539C	Colles' fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB,	DX	ICD-10-CM
	or IIIC	5.4	100 10 011
S52.541A	Smith's fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.541B	Smith's fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.541C	Smith's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.542A	Smith's fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.542B	Smith's fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.542C	Smith's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.549A	Smith's fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.549B	Smith's fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 405 of 702



tilis Reque	··		
Code	Description	Code Type	Code Category
S52.549C	Smith's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.551A	Other extraarticular fracture of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.551B	Other extraarticular fracture of lower end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.551C	Other extraarticular fracture of lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.552A	Other extraarticular fracture of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.552B	Other extraarticular fracture of lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.552C	Other extraarticular fracture of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.559A	Other extraarticular fracture of lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.559B	Other extraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.559C	Other extraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.561A	Barton's fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.561B	Barton's fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.561C	Barton's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.562A	Barton's fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.562B	Barton's fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.562C	Barton's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.569A	Barton's fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.569B	Barton's fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.569C	Barton's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.571A	Other intraarticular fracture of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.571B	Other intraarticular fracture of lower end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.571C	Other intraarticular fracture of lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.572A	Other intraarticular fracture of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.572B	Other intraarticular fracture of lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.572C	Other intraarticular fracture of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 406 of 702



Code	Description	Code Type	Code Category
S52.579A	Other intraarticular fracture of lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.579B	Other intraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.579C	Other intraarticular fracture of lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.591A	Other fractures of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.591B	Other fractures of lower end of right radius, initial encounter for open fracture type I or		ICD-10-CM
S52.591C	Other fractures of lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.592A	Other fractures of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.592B	Other fractures of lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.592C	Other fractures of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.599A	Other fractures of lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.599B	Other fractures of lower end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.599C	Other fractures of lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.601A	Unspecified fracture of lower end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.601B	Unspecified fracture of lower end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.601C	Unspecified fracture of lower end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.602A	Unspecified fracture of lower end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.602B	Unspecified fracture of lower end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.602C	Unspecified fracture of lower end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.609A	Unspecified fracture of lower end of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
S52.609B	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.609C	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.611A	Displaced fracture of right ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.611B	Displaced fracture of right ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.611C	Displaced fracture of right ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.612A	Displaced fracture of left ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.612B	Displaced fracture of left ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 407 of 702



Code	Description	Code Type	Code Category
S52.612C	Displaced fracture of left ulna styloid process, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S52.613A	Displaced fracture of unspecified ulna styloid process, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.613B	Displaced fracture of unspecified ulna styloid process, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.613C	Displaced fracture of unspecified ulna styloid process, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.614A	Nondisplaced fracture of right ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.614B	Nondisplaced fracture of right ulna styloid process, initial encounter for open fracture	DX	ICD-10-CM
CE2 C14C	type I or II	DV	ICD 10 CM
S52.614C	Nondisplaced fracture of right ulna styloid process, initial encounter for open fracture	DX	ICD-10-CM
S52.615A	type IIIA, IIIB, or IIIC  Nondisplaced fracture of left ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.615B	Nondisplaced fracture of left ulna styloid process, initial encounter for closed fracture  Nondisplaced fracture of left ulna styloid process, initial encounter for open fracture	DX	ICD-10-CM
332.0135	type I or II	DA	ICD 10 CIVI
S52.615C	Nondisplaced fracture of left ulna styloid process, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.616A	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.616B	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.616C	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.621A	Torus fracture of lower end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.622A	Torus fracture of lower end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.629A	Torus fracture of lower end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.691A	Other fracture of lower end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.691B	Other fracture of lower end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.691C	Other fracture of lower end of right ulna, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
S52.692A	IIIB, or IIIC Other fracture of lower end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.692B	Other fracture of lower end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.692C	Other fracture of lower end of left ulna, initial encounter for open fracture type I IIA,	DX	ICD-10-CM
332.0320	IIIB, or IIIC	DA	100 10 0101
S52.699A	Other fracture of lower end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.699B	Other fracture of lower end of unspecified ulna, initial encounter for open fracture type		ICD-10-CM
	I or II		
S52.699C	Other fracture of lower end of unspecified ulna, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S52.90XA	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	DX	ICD-10-CM
S52.90XB	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 408 of 702



Code	Description	Code Type	Code Category
S52.90XC	Unspecified fracture of unspecified forearm, initial encounter for open fracture type	DX	Code Category ICD-10-CM
332.90AC	IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.91XA	Unspecified fracture of right forearm, initial encounter for closed fracture	DX	ICD-10-CM
S52.91XB	Unspecified fracture of right forearm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.91XC	Unspecified fracture of right forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.92XA	Unspecified fracture of left forearm, initial encounter for closed fracture	DX	ICD-10-CM
S52.92XB	Unspecified fracture of left forearm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.92XC	Unspecified fracture of left forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S57.00XA	Crushing injury of unspecified elbow, initial encounter	DX	ICD-10-CM
S57.01XA	Crushing injury of right elbow, initial encounter	DX	ICD-10-CM
S57.02XA	Crushing injury of left elbow, initial encounter	DX	ICD-10-CM
S57.80XA	Crushing injury of unspecified forearm, initial encounter	DX	ICD-10-CM
S57.81XA	Crushing injury of right forearm, initial encounter	DX	ICD-10-CM
S57.82XA	Crushing injury of left forearm, initial encounter	DX	ICD-10-CM
S59.001A	Unspecified physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.002A	Unspecified physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.009A	Unspecified physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.011A	Salter-Harris Type I physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.012A	Salter-Harris Type I physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.019A	Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.021A	Salter-Harris Type II physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.022A	Salter-Harris Type II physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.029A	Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.031A	Salter-Harris Type III physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.032A	Salter-Harris Type III physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.039A	Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.041A	Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 409 of 702



tills reque			
Code	Description	Code Type	Code Category
S59.042A	Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.049A	Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.091A	Other physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.092A	Other physeal fracture of lower end of ulna, left arm, initial encounter for closed	DX	ICD-10-CM
S59.099A	Other physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.101A	Unspecified physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.102A	Unspecified physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.109A	Unspecified physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.111A	Salter-Harris Type I physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.112A	Salter-Harris Type I physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.119A	Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.121A	Salter-Harris Type II physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.122A	Salter-Harris Type II physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.129A	Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.131A	Salter-Harris Type III physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.132A	Salter-Harris Type III physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.139A	Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.141A	Salter-Harris Type IV physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.142A	Salter-Harris Type IV physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.149A	Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.191A	Other physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.192A	Other physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 410 of 702



Code	Description	Code Type	Code Category
S59.199A	Other physeal fracture of upper end of radius, unspecified arm, initial encounter for	DX	ICD-10-CM
	closed fracture		
S59.201A	Unspecified physeal fracture of lower end of radius, right arm, initial encounter for	DX	ICD-10-CM
	closed fracture	,	
S59.202A	Unspecified physeal fracture of lower end of radius, left arm, initial encounter for	DX	ICD-10-CM
CEO 2004	closed fracture	DV	ICD 10 CM
S59.209A	Unspecified physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.211A	Salter-Harris Type I physeal fracture of lower end of radius, right arm, initial encounter	DX	ICD-10-CM
339.211A	for closed fracture	DX	ICD-10-CIVI
S59.212A	Salter-Harris Type I physeal fracture of lower end of radius, left arm, initial encounter	DX	ICD-10-CM
00012227	for closed fracture		.02 20 0
S59.219A	Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, initial	DX	ICD-10-CM
	encounter for closed fracture		
S59.221A	Salter-Harris Type II physeal fracture of lower end of radius, right arm, initial encounter	DX	ICD-10-CM
	for closed fracture		
S59.222A	Salter-Harris Type II physeal fracture of lower end of radius, left arm, initial encounter	DX	ICD-10-CM
	for closed fracture		
S59.229A	Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, initial	DX	ICD-10-CM
	encounter for closed fracture		
S59.231A	Salter-Harris Type III physeal fracture of lower end of radius, right arm, initial encounter	DX	ICD-10-CM
CEO 2224	for closed fracture	DV	100 10 014
S59.232A	Salter-Harris Type III physeal fracture of lower end of radius, left arm, initial encounter	DX	ICD-10-CM
S59.239A	for closed fracture Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, initial	DX	ICD-10-CM
333.233A	encounter for closed fracture	DX	ICD-10-CIVI
S59.241A	Salter-Harris Type IV physeal fracture of lower end of radius, right arm, initial encounter	DX	ICD-10-CM
333.2 TIN	for closed fracture		100 10 0141
S59.242A	Salter-Harris Type IV physeal fracture of lower end of radius, left arm, initial encounter	DX	ICD-10-CM
	for closed fracture		
S59.249A	Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, initial	DX	ICD-10-CM
	encounter for closed fracture		
S59.291A	Other physeal fracture of lower end of radius, right arm, initial encounter for closed	DX	ICD-10-CM
	fracture		
S59.292A	Other physeal fracture of lower end of radius, left arm, initial encounter for closed	DX	ICD-10-CM
	fracture		
S59.299A	Other physeal fracture of lower end of radius, unspecified arm, initial encounter for	DX	ICD-10-CM
000 00044	closed fracture	5.4	100 10 011
S62.90XA	Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture		ICD-10-CM
S62.90XB S67.00XA	Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture Crushing injury of unspecified thumb, initial encounter	DX DX	ICD-10-CM ICD-10-CM
S67.00XA S67.01XA	Crushing injury of unspecified thumb, initial encounter  Crushing injury of right thumb, initial encounter	DX	ICD-10-CM
S67.02XA	Crushing injury of light thumb, initial encounter  Crushing injury of left thumb, initial encounter	DX	ICD-10-CM
307.02AA	Stasting many or left trialing, initial cheodiffer		ICD TO CIVI

cder\_mpl2p\_wp047 Page 411 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reques			
Code	Description	Code Type	Code Category
S67.10XA	Crushing injury of unspecified finger(s), initial encounter	DX	ICD-10-CM
S67.190A	Crushing injury of right index finger, initial encounter	DX	ICD-10-CM
S67.191A	Crushing injury of left index finger, initial encounter	DX	ICD-10-CM
S67.192A	Crushing injury of right middle finger, initial encounter	DX	ICD-10-CM
S67.193A	Crushing injury of left middle finger, initial encounter	DX	ICD-10-CM
S67.194A	Crushing injury of right ring finger, initial encounter	DX	ICD-10-CM
S67.195A	Crushing injury of left ring finger, initial encounter	DX	ICD-10-CM
S67.196A	Crushing injury of right little finger, initial encounter	DX	ICD-10-CM
S67.197A	Crushing injury of left little finger, initial encounter	DX	ICD-10-CM
S67.198A	Crushing injury of other finger, initial encounter	DX	ICD-10-CM
S67.20XA	Crushing injury of unspecified hand, initial encounter	DX	ICD-10-CM
S67.21XA	Crushing injury of right hand, initial encounter	DX	ICD-10-CM
S67.22XA	Crushing injury of left hand, initial encounter	DX	ICD-10-CM
S67.30XA	Crushing injury of unspecified wrist, initial encounter	DX	ICD-10-CM
S67.31XA	Crushing injury of right wrist, initial encounter	DX	ICD-10-CM
S67.32XA	Crushing injury of left wrist, initial encounter	DX	ICD-10-CM
S67.40XA	Crushing injury of unspecified wrist and hand, initial encounter	DX	ICD-10-CM
S67.41XA	Crushing injury of right wrist and hand, initial encounter	DX	ICD-10-CM
S67.42XA	Crushing injury of left wrist and hand, initial encounter	DX	ICD-10-CM
S67.90XA	Crushing injury of unspecified part(s) of unspecified wrist, hand and fingers, initial encounter	DX	ICD-10-CM
S67.91XA	Crushing injury of unspecified part(s) of right wrist, hand and fingers, initial encounter	DX	ICD-10-CM
S67.92XA	Crushing injury of unspecified part(s) of left wrist, hand and fingers, initial encounter	DX	ICD-10-CM
S72.001A	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.001B	Fracture of unspecified part of neck of right femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.001C	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.002A	Fracture of unspecified part of neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.002B	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.002C	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.009A	Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.009B	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.009C	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.011A	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.011B	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 412 of 702



tills reque			
Code	Description	Code Type	Code Category
S72.011C	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.012A	Unspecified intracapsular fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.012B	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.012C	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.019A	Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.019B	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.019C	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.021A	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.021B	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.021C	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.022A	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.022B	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.022C	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.023A	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.023B	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.023C	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.024A	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.024B	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.024C	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.025A	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.025B	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.025C	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 413 of 702



Code	Description	Code Type	Code Category
S72.026A	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial	DX	ICD-10-CM
	encounter for closed fracture		
S72.026B	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial	DX	ICD-10-CM
	encounter for open fracture type I or II		
S72.026C	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.031A	Displaced midcervical fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.031B	Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.031C	Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.032A	Displaced midcervical fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.032B	Displaced midcervical fracture of left femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.032C	Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.033A	Displaced midcervical fracture of unspecified femur, initial encounter for closed	DX	ICD-10-CM
S72.033B	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.033C	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.034A	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.034B	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.034C	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.035A	Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.035B	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.035C	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.036A	Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.036B	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.036C	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.041A	Displaced fracture of base of neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.041B	Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.041C	Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.042A	Displaced fracture of base of neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 414 of 702



tills reque	<b></b>		
Code	Description	Code Type	<b>Code Category</b>
S72.042B	Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.042C	Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.043A	Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.043B	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.043C	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.044A	Nondisplaced fracture of base of neck of right femur, initial encounter for closed	DX	ICD-10-CM
S72.044B	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.044C	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.045A	Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.045B	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.045C	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.046A	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.046B	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.046C	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.051A	Unspecified fracture of head of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.051B	Unspecified fracture of head of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.051C	Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.052A	Unspecified fracture of head of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.052B	Unspecified fracture of head of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.052C	Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.059A	Unspecified fracture of head of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.059B	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.059C	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.061A	Displaced articular fracture of head of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.061B	Displaced articular fracture of head of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 415 of 702



till3 reque			
Code	Description	Code Type	Code Category
S72.061C	Displaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.062A	Displaced articular fracture of head of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.062B	Displaced articular fracture of head of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.062C	Displaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.063A	Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.063B	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.063C	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.064A	Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.064B	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.064C	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.065A	Nondisplaced articular fracture of head of left femur, initial encounter for closed	DX	ICD-10-CM
S72.065B	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.065C	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.066A	Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.066B	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.066C	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.091A	Other fracture of head and neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.091B	Other fracture of head and neck of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.091C	Other fracture of head and neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.092A	Other fracture of head and neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.092B	Other fracture of head and neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.092C	Other fracture of head and neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.099A	Other fracture of head and neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 416 of 702



tills reque	<del>,</del>		
Code	Description	Code Type	Code Category
S72.099B	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.099C	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.101A	Unspecified trochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.101B	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.101C	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.102A	Unspecified trochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.102B	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.102C	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.109A	Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.109B	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.109C	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.111A	Displaced fracture of greater trochanter of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.111B	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.111C	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.112A	Displaced fracture of greater trochanter of left femur, initial encounter for closed	DX	ICD-10-CM
S72.112B	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.112C	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.113A	Displaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.113B	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.113C	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.114A	Nondisplaced fracture of greater trochanter of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.114B	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.114C	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 417 of 702



tins reque			
Code	Description	Code Type	Code Category
S72.115A	Nondisplaced fracture of greater trochanter of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.115B	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.115C	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.116A	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.116B	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.116C	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.121A	Displaced fracture of lesser trochanter of right femur, initial encounter for closed	DX	ICD-10-CM
S72.121B	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.121C	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.122A	Displaced fracture of lesser trochanter of left femur, initial encounter for closed	DX	ICD-10-CM
S72.122B	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.122C	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.123A	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.123B	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.123C	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.124A	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.124B	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.124C	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.125A	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.125B	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.125C	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.126A	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 418 of 702



tilis reque	<del>,</del>		
Code	Description	Code Type	Code Category
S72.126B	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.126C	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.131A	Displaced apophyseal fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.131B	Displaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.131C	Displaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.132A	Displaced apophyseal fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.132B	Displaced apophyseal fracture of left femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.132C	Displaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.133A	Displaced apophyseal fracture of unspecified femur, initial encounter for closed	DX	ICD-10-CM
S72.133B	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.133C	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.134A	Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.134B	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.134C	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.135A	Nondisplaced apophyseal fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.135B	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.135C	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.136A	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.136B	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.136C	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.141A	Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.141B	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.141C	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.142A	Displaced intertrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.142B	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 419 of 702



Code	Description	Code Type	Code Category
S72.142C	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.143A	Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.143B	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.143C	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
672 4 4 4 4	fracture type IIIA, IIIB, or IIIC	DV	100 40 614
S72.144A	Nondisplaced intertrochanteric fracture of right femur, initial encounter for closed	DX	ICD-10-CM
C72 144D	fracture  Nondisplaced intertrochanteric fracture of right femur, initial encounter for open	DV	ICD 10 CM
S72.144B	fracture type I or II	DX	ICD-10-CM
S72.144C	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open	DX	ICD-10-CM
372.1440	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S72.145A	Nondisplaced intertrochanteric fracture of left femur, initial encounter for closed	DX	ICD-10-CM
S72.145B	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.145C	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.146A	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S72.146B	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.146C	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.21XA	Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.21XB	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture	DX	ICD-10-CM
572 2446	type I or II	DV	100 40 614
S72.21XC	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture	DX	ICD-10-CM
S72.22XA	type IIIA, IIIB, or IIIC  Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.22XA	Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CW
3/2.22/0	type I or II	DX	ICD-10-CIVI
S72.22XC	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture	DX	ICD-10-CM
37 Z.ZZAC	type IIIA, IIIB, or IIIC	D.K	ICD 10 CIVI
S72.23XA	Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.23XB	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.23XC	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.24XA	Nondisplaced subtrochanteric fracture of right femur, initial encounter for closed	DX	ICD-10-CM
	fracture		

cder\_mpl2p\_wp047 Page 420 of 702



tilis reque	··		
Code	Description	Code Type	Code Category
S72.24XB	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.24XC	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.25XA	Nondisplaced subtrochanteric fracture of left femur, initial encounter for closed	DX	ICD-10-CM
S72.25XB	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.25XC	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture	DX	ICD-10-CM
572 26VA	type IIIA, IIIB, or IIIC  Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed	DV	ICD 10 CM
S72.26XA	fracture	DX	ICD-10-CM
S72.26XB	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.26XC	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.301A	Unspecified fracture of shaft of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.301B	Unspecified fracture of shaft of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.301C	Unspecified fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.302A	Unspecified fracture of shaft of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.302B	Unspecified fracture of shaft of left femur, initial encounter for open fracture type I or II		ICD-10-CM
S72.302C	Unspecified fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.309A	Unspecified fracture of shaft of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.309B	Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture	DX	ICD-10-CM
372.3032	type I or II		105 10 0111
S72.309C	Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.321A	Displaced transverse fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
S72.321B	Displaced transverse fracture of shaft of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.321C	Displaced transverse fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.322A	Displaced transverse fracture of shaft of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.322B	Displaced transverse fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
072.0222	type I or II		.02 20 0
S72.322C	Displaced transverse fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.323A	Displaced transverse fracture of shaft of unspecified femur, initial encounter for closed	DX	ICD-10-CM
672 2225	fracture	DV	ICD 40 CM
S72.323B	Displaced transverse fracture of shaft of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 421 of 702



Code	Description	Code Type	Code Category
S72.323C	Displaced transverse fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
072.0200	fracture type IIIA, IIIB, or IIIC	27.	.02 20 0
S72.324A	Nondisplaced transverse fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.324B	Nondisplaced transverse fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.324C	Nondisplaced transverse fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.325A	Nondisplaced transverse fracture of shaft of left femur, initial encounter for closed	DX	ICD-10-CM
S72.325B	fracture  Nondisplaced transverse fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
3/2.3230	fracture type I or II	DX	ICD-10-CIVI
S72.325C	Nondisplaced transverse fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
372.3230	fracture type IIIA, IIIB, or IIIC	DX	ICD TO CIVI
S72.326A	Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S72.326B	Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type I or II		
S72.326C	Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S72.331A	Displaced oblique fracture of shaft of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.331B	Displaced oblique fracture of shaft of right femur, initial encounter for open fracture	DX	ICD-10-CM
672 2246	type I or II	DV	100 40 614
S72.331C	Displaced oblique fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.332A	Displaced oblique fracture of shaft of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.332A	Displaced oblique fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
372.3325	type I or II	DX	TCD TO CIVI
S72.332C	Displaced oblique fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.333A	Displaced oblique fracture of shaft of unspecified femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.333B	Displaced oblique fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.333C	Displaced oblique fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.334A	Nondisplaced oblique fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
C72 224D	fracture  Nandisplaced oblique fracture of shoft of right famus, initial encounter for ones.	DV	ICD 10 CM
S72.334B	Nondisplaced oblique fracture of shaft of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.334C	Nondisplaced oblique fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
3, 2.3340	fracture type IIIA, IIIB, or IIIC	JA.	100 10 0101
S72.335A	Nondisplaced oblique fracture of shaft of left femur, initial encounter for closed	DX	ICD-10-CM
	1		

cder\_mpl2p\_wp047 Page 422 of 702



Code	Description	Code Type	Code Category
S72.335B	Nondisplaced oblique fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.335C	Nondisplaced oblique fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.336A	Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for closed	DX	ICD-10-CM
372.3307	fracture		100 10 011
S72.336B	Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.336C	Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.341A	Displaced spiral fracture of shaft of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.341B	Displaced spiral fracture of shaft of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.341C	Displaced spiral fracture of shaft of right femur, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S72.342A	Displaced spiral fracture of shaft of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.342B	Displaced spiral fracture of shaft of left femur, initial encounter for open fracture type I	DX	ICD-10-CM
	or II		
S72.342C	Displaced spiral fracture of shaft of left femur, initial encounter for open fracture type	DX	ICD-10-CM
C72 242A	IIIA, IIIB, or IIIC	DV	ICD 10 CM
S72.343A	Displaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.343B	Displaced spiral fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.343C	Displaced spiral fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.344A	Nondisplaced spiral fracture of shaft of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.344B	Nondisplaced spiral fracture of shaft of right femur, initial encounter for open fracture	DX	ICD-10-CM
672 2446	type I or II	DV	16D 40 6N4
S72.344C	Nondisplaced spiral fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.345A	Nondisplaced spiral fracture of shaft of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.345B	Nondisplaced spiral fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.345C	Nondisplaced spiral fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.346A	Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.346B	Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
S72.346C	fracture type I or II  Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
372.34UC	fracture type IIIA, IIIB, or IIIC	DΛ	ICD-TO-CIAI

cder\_mpl2p\_wp047 Page 423 of 702



Code	Description	Code Type	Code Category
S72.351A	Displaced comminuted fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
372.331A	fracture	DX	ICD-10-CIVI
S72.351B	Displaced comminuted fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.351C	Displaced comminuted fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.352A	Displaced comminuted fracture of shaft of left femur, initial encounter for closed	DX	ICD-10-CM
S72.352B	Displaced comminuted fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.352C	Displaced comminuted fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.353A	Displaced comminuted fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S72.353B	Displaced comminuted fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.353C	Displaced comminuted fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC	,	
S72.354A	Nondisplaced comminuted fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
672.25.45	fracture	DV	100 40 614
S72.354B	Nondisplaced comminuted fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
C72 2F4C	fracture type I or II	DV	ICD 10 CM
S72.354C	Nondisplaced comminuted fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.355A	Nondisplaced comminuted fracture of shaft of left femur, initial encounter for closed	DX	ICD-10-CM
372.333A	fracture	DX	ICD-10-CIVI
S72.355B	Nondisplaced comminuted fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
372.3335	fracture type I or II		100 10 0111
S72.355C	Nondisplaced comminuted fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.356A	Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S72.356B	Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type I or II		
S72.356C	Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S72.361A	Displaced segmental fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
S72.361B	Displaced segmental fracture of shaft of right femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.361C	Displaced segmental fracture of shaft of right femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.362A	Displaced segmental fracture of shaft of left femur, initial encounter for closed fracture		ICD-10-CM
S72.362B	Displaced segmental fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		

cder\_mpl2p\_wp047 Page 424 of 702



tilis reque	<del>,</del>		
Code	Description	Code Type	Code Category
S72.362C	Displaced segmental fracture of shaft of left femur, initial encounter for open fracture	DX	ICD-10-CM
S72.363A	type IIIA, IIIB, or IIIC  Displaced segmental fracture of shaft of unspecified femur, initial encounter for closed	DX	ICD-10-CM
372.303A	fracture	DX	ICD-10-CIVI
S72.363B	Displaced segmental fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
S72.363C	fracture type I or II  Displaced segmental fracture of shaft of unspecified femur, initial encounter for open	DX	ICD-10-CM
3/2.303C	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S72.364A	Nondisplaced segmental fracture of shaft of right femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.364B	Nondisplaced segmental fracture of shaft of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II	51/	100 10 011
S72.364C	Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.365A	Nondisplaced segmental fracture of shaft of left femur, initial encounter for closed	DX	ICD-10-CM
372.3037	fracture		100 10 0111
S72.365B	Nondisplaced segmental fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.365C	Nondisplaced segmental fracture of shaft of left femur, initial encounter for open	DX	ICD-10-CM
C72 266A	fracture type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S72.366A	Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.366B	Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type I or II		
S72.366C	Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.391A	Other fracture of shaft of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.391B	Other fracture of shaft of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.391C	Other fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB,	DX	ICD-10-CM
	or IIIC		
S72.392A	Other fracture of shaft of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.392B	Other fracture of shaft of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.392C	Other fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.399A	Other fracture of shaft of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.399B	Other fracture of shaft of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.399C	Other fracture of shaft of unspecified femur, initial encounter for open fracture type	DX	ICD-10-CM
C72 401 A	IIIA, IIIB, or IIIC	DV	ICD 40 CM
S72.401A	Unspecified fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.401B	Unspecified fracture of lower end of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 425 of 702



tills reque	<del>,</del>		
Code	Description	Code Type	Code Category
S72.401C	Unspecified fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.402A	Unspecified fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.402B	Unspecified fracture of lower end of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.402C	Unspecified fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.409A	Unspecified fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.409B	Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.409C	Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.411A	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.411B	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.411C	Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.412A	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.412B	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.412C	Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.413A	Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.413B	Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.413C	Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.414A	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.414B	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.414C	Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.415A	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.415B		DX	ICD-10-CM
S72.415C	Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 426 of 702



Code	Description	Code Type	Code Category
S72.416A	Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial	DX	ICD-10-CM
	encounter for closed fracture		
S72.416B	Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial	DX	ICD-10-CM
	encounter for open fracture type I or II		
S72.416C	Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial	DX	ICD-10-CM
	encounter for open fracture type IIIA, IIIB, or IIIC		
S72.421A	Displaced fracture of lateral condyle of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.421B	Displaced fracture of lateral condyle of right femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.421C	Displaced fracture of lateral condyle of right femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.422A	Displaced fracture of lateral condyle of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.422B	Displaced fracture of lateral condyle of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.422C	Displaced fracture of lateral condyle of left femur, initial encounter for open fracture	DX	ICD-10-CM
672 4224	type IIIA, IIIB, or IIIC	DV	ICD 40 CM
S72.423A	Displaced fracture of lateral condyle of unspecified femur, initial encounter for closed	DX	ICD-10-CM
C72 422D	fracture  Displaced fracture of lateral condula of unenecified formur initial encounter for one	DV	ICD 10 CM
S72.423B	Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.423C	Displaced fracture of lateral condyle of unspecified femur, initial encounter for open	DX	ICD-10-CM
372.4230	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S72.424A	Nondisplaced fracture of lateral condyle of right femur, initial encounter for closed	DX	ICD-10-CM
372.424/	fracture	D/A	ICD 10 CIVI
S72.424B	Nondisplaced fracture of lateral condyle of right femur, initial encounter for open	DX	ICD-10-CM
,, _, ,_ ,_	fracture type I or II		.02 20 0
S72.424C	Nondisplaced fracture of lateral condyle of right femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.425A	Nondisplaced fracture of lateral condyle of left femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S72.425B	Nondisplaced fracture of lateral condyle of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.425C	Nondisplaced fracture of lateral condyle of left femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.426A	Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S72.426B	Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type I or II		
S72.426C	Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S72.431A	Displaced fracture of medial condyle of right femur, initial encounter for closed fracture		ICD-10-CM
S72.431B	, , , , , , , , , , , , , , , , , , , ,	DX	ICD-10-CM
	type I or II		

cder\_mpl2p\_wp047 Page 427 of 702



Code	Description	Code Type	Code Category
S72.431C	Displaced fracture of medial condyle of right femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.432A	Displaced fracture of medial condyle of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.432B	Displaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.432C	Displaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.433A	Displaced fracture of medial condyle of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.433B	Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.433C	Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.434A	Nondisplaced fracture of medial condyle of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.434B	Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.434C	Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.435A	Nondisplaced fracture of medial condyle of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.435B	Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.435C	Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.436A	Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.436B	Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.436C	Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.441A	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.441B	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.441C	Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.442A	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.442B	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.442C	Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 428 of 702



tills reque.	•		
Code	Description	Code Type	<b>Code Category</b>
S72.443A	Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.443B	Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.443C	Displaced fracture of lower epiphysis (separation) of unspecified femur, initial	DX	ICD-10-CM
S72.444A	encounter for open fracture type IIIA, IIIB, or IIIC  Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter	DX	ICD-10-CM
S72.444B	for closed fracture  Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter	DX	ICD-10-CM
S72.444C	for open fracture type I or II  Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter	DX	ICD-10-CM
S72.445A	for open fracture type IIIA, IIIB, or IIIC  Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for	DX	ICD-10-CM
S72.445B	closed fracture Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for	DX	ICD-10-CM
S72.445C	open fracture type I or II  Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for	DX	ICD-10-CM
S72.446A	open fracture type IIIA, IIIB, or IIIC Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial	DX	ICD-10-CM
S72.446B	encounter for closed fracture Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial	DX	ICD-10-CM
S72.446C	encounter for open fracture type I or II Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial	DX	ICD-10-CM
S72.451A	encounter for open fracture type IIIA, IIIB, or IIIC Displaced supracondylar fracture without intracondylar extension of lower end of right	DX	ICD-10-CM
S72.451B	femur, initial encounter for closed fracture Displaced supracondylar fracture without intracondylar extension of lower end of right	DX	ICD-10-CM
S72.451C	femur, initial encounter for open fracture type I or II  Displaced supracondylar fracture without intracondylar extension of lower end of right	DX	ICD-10-CM
S72.452A	femur, initial encounter for open fracture type IIIA, IIIB, or IIIC  Displaced supracondylar fracture without intracondylar extension of lower end of left	DX	ICD-10-CM
S72.452B	femur, initial encounter for closed fracture  Displaced supracondylar fracture without intracondylar extension of lower end of left	DX	ICD-10-CM
	femur, initial encounter for open fracture type I or II		
S72.452C	Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.453A	Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.453B	Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.453C	Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 429 of 702



tills reque			
Code	Description	Code Type	Code Category
S72.454A	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.454B	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.454C	Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.455A	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.455B	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.455C	Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.456A	Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.456B	Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.456C	Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.461A	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.461B	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.461C	Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.462A	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.462B	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.462C	Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.463A	Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.463B	Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.463C	Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.464A	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.464B	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.464C	Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 430 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S72.465A	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left	DX	ICD-10-CM
C72 46ED	femur, initial encounter for closed fracture	DV	ICD 10 CM
S72.465B	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.465C	Nondisplaced supracondylar fracture with intracondylar extension of lower end of left	DX	ICD-10-CM
372.4030	femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S72.466A	Nondisplaced supracondylar fracture with intracondylar extension of lower end of	DX	ICD-10-CM
372.1007	unspecified femur, initial encounter for closed fracture		105 10 0.01
S72.466B	Nondisplaced supracondylar fracture with intracondylar extension of lower end of	DX	ICD-10-CM
07211002	unspecified femur, initial encounter for open fracture type I or II	-7.	.02 20 0
S72.466C	Nondisplaced supracondylar fracture with intracondylar extension of lower end of	DX	ICD-10-CM
	unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC		
S72.471A	Torus fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.472A	Torus fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.479A	Torus fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.491A	Other fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.491B	Other fracture of lower end of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.491C	Other fracture of lower end of right femur, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S72.492A	Other fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.492B	Other fracture of lower end of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.492C	Other fracture of lower end of left femur, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S72.499A	Other fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.499B	Other fracture of lower end of unspecified femur, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S72.499C	Other fracture of lower end of unspecified femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.8X1A	Other fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.8X1B	Other fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.8X1C	Other fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.8X2A	Other fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.8X2B	Other fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.8X2C	Other fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.8X9A	Other fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.8X9B	Other fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.8X9C	Other fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.90XA	Unspecified fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.90XB	Unspecified fracture of unspecified femur, initial encounter for open fracture type I or II		ICD-10-CM
S72.90XC	Unspecified fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 431 of 702



tins reque			
Code	Description	Code Type	Code Category
S72.90XE	Unspecified fracture of unspecified femur, subsequent encounter for open fracture	DX	ICD-10-CM
	type I or II with routine healing		
S72.91XA	Unspecified fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.91XB	Unspecified fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.91XC	Unspecified fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.91XE	Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with routine healing	DX	ICD-10-CM
S72.92XA	Unspecified fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.92XB	Unspecified fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.92XC	Unspecified fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S72.92XE	Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with routine healing	DX	ICD-10-CM
S77.00XA	Crushing injury of unspecified hip, initial encounter	DX	ICD-10-CM
S77.01XA	Crushing injury of right hip, initial encounter	DX	ICD-10-CM
S77.02XA	Crushing injury of left hip, initial encounter	DX	ICD-10-CM
S77.10XA	Crushing injury of unspecified thigh, initial encounter	DX	ICD-10-CM
S77.11XA	Crushing injury of right thigh, initial encounter	DX	ICD-10-CM
S77.12XA	Crushing injury of left thigh, initial encounter	DX	ICD-10-CM
S77.20XA	Crushing injury of unspecified hip with thigh, initial encounter	DX	ICD-10-CM
S77.21XA	Crushing injury of right hip with thigh, initial encounter	DX	ICD-10-CM
S77.22XA	Crushing injury of left hip with thigh, initial encounter	DX	ICD-10-CM
S79.001A	Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.002A	Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.009A	Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.011A	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.012A	Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.019A	Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.091A	Other physeal fracture of upper end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.092A	Other physeal fracture of upper end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.099A	Other physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.101A	Unspecified physeal fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.102A	Unspecified physeal fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 432 of 702



Code	Description	Code Type	Code Category
S79.109A	Unspecified physeal fracture of lower end of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S79.111A	Salter-Harris Type I physeal fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.112A	Salter-Harris Type I physeal fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.119A	Salter-Harris Type I physeal fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.121A	Salter-Harris Type II physeal fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.122A	Salter-Harris Type II physeal fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.129A	Salter-Harris Type II physeal fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.131A	Salter-Harris Type III physeal fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.132A	Salter-Harris Type III physeal fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.139A	Salter-Harris Type III physeal fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.141A	Salter-Harris Type IV physeal fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.142A	Salter-Harris Type IV physeal fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.149A	Salter-Harris Type IV physeal fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.191A	Other physeal fracture of lower end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.192A	Other physeal fracture of lower end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.199A	Other physeal fracture of lower end of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S82.001A	Unspecified fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.001B	Unspecified fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.001C	Unspecified fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.002A	Unspecified fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.002B	Unspecified fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.002C	Unspecified fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S82.009A	Unspecified fracture of unspecified patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.009B	Unspecified fracture of unspecified patella, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.009C	Unspecified fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.011A	Displaced osteochondral fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 433 of 702



Code	Description	Code Type	Code Category
S82.011B	Displaced osteochondral fracture of right patella, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.011C	Displaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.012A	Displaced osteochondral fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.012B	Displaced osteochondral fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.012C	Displaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.013A	Displaced osteochondral fracture of unspecified patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.013B	Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.013C	Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.014A	Nondisplaced osteochondral fracture of right patella, initial encounter for closed	DX	ICD-10-CM
S82.014B	Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.014C	Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.015A	Nondisplaced osteochondral fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.015B	Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.015C	Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.016A	Nondisplaced osteochondral fracture of unspecified patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.016B	Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.016C	Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.021A	Displaced longitudinal fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.021B	Displaced longitudinal fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.021C	Displaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.022A	Displaced longitudinal fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.022B	Displaced longitudinal fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.022C	Displaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.023A	Displaced longitudinal fracture of unspecified patella, initial encounter for closed	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 434 of 702



Code	Description	Code Type	Code Category
S82.023B	Displaced longitudinal fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.023C	Displaced longitudinal fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.024A	Nondisplaced longitudinal fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.024B	Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.024C	Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.025A	Nondisplaced longitudinal fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.025B	Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.025C	Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.026A	Nondisplaced longitudinal fracture of unspecified patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.026B	Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.026C	Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.031A	Displaced transverse fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.031B	Displaced transverse fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.031C	Displaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.032A	Displaced transverse fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.032B	Displaced transverse fracture of left patella, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.032C	Displaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.033A	Displaced transverse fracture of unspecified patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.033B	Displaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.033C	Displaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.034A	Nondisplaced transverse fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.034B	Nondisplaced transverse fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.034C	Nondisplaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.035A	Nondisplaced transverse fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.035B	Nondisplaced transverse fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 435 of 702



Code	Description	Code Type	Code Category
S82.035C	Nondisplaced transverse fracture of left patella, initial encounter for open fracture type		ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.036A	Nondisplaced transverse fracture of unspecified patella, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.036B	Nondisplaced transverse fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.036C	Nondisplaced transverse fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC	5.4	100 10 011
S82.041A	Displaced comminuted fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.041B	Displaced comminuted fracture of right patella, initial encounter for open fracture type	DX	ICD-10-CM
S82.041C	I or II  Displaced comminuted fracture of right patella, initial encounter for open fracture type	DV	ICD 10 CM
362.U41C	IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.042A	Displaced comminuted fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.042B	Displaced comminuted fracture of left patella, initial encounter for open fracture type I	DX	ICD-10-CM
002.0 125	or II		102 10 0111
S82.042C	Displaced comminuted fracture of left patella, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.043A	Displaced comminuted fracture of unspecified patella, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.043B	Displaced comminuted fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.043C	Displaced comminuted fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.044A	Nondisplaced comminuted fracture of right patella, initial encounter for closed fracture		ICD-10-CM
S82.044B	Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.044C	Nondisplaced comminuted fracture of right patella, initial encounter for open fracture	DX	ICD-10-CM
302.0440	type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S82.045A	Nondisplaced comminuted fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.045B	Nondisplaced comminuted fracture of left patella, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.045C	Nondisplaced comminuted fracture of left patella, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.046A	Nondisplaced comminuted fracture of unspecified patella, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.046B	Nondisplaced comminuted fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.046C	Nondisplaced comminuted fracture of unspecified patella, initial encounter for open	DX	ICD-10-CM
502.024	fracture type IIIA, IIIB, or IIIC	57	100 40 014
S82.091A	Other fracture of right patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.091B S82.091C	Other fracture of right patella, initial encounter for open fracture type I or II Other fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX DX	ICD-10-CM ICD-10-CM
302.U31C	Other fracture of right patena, initial encounter for open fracture type IIIA, IIIB, of IIIC	DΛ	ICD-10-CIAI

cder\_mpl2p\_wp047 Page 436 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S82.092A	Other fracture of left patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.092B	Other fracture of left patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.092C	Other fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.099A	Other fracture of unspecified patella, initial encounter for closed fracture	DX	ICD-10-CM
S82.099B	Other fracture of unspecified patella, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.099C	Other fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.101A	Unspecified fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.101B	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.101C	Unspecified fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.102A	Unspecified fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.102B	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.102C	Unspecified fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.109A	Unspecified fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.109B	Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.109C	Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.111A	Displaced fracture of right tibial spine, initial encounter for closed fracture	DX	ICD-10-CM
S82.111B	Displaced fracture of right tibial spine, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.111C	Displaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.112A	Displaced fracture of left tibial spine, initial encounter for closed fracture	DX	ICD-10-CM
S82.112B	Displaced fracture of left tibial spine, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.112C	Displaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.113A	Displaced fracture of unspecified tibial spine, initial encounter for closed fracture	DX	ICD-10-CM
S82.113B	Displaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.113C	Displaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.114A	Nondisplaced fracture of right tibial spine, initial encounter for closed fracture	DX	ICD-10-CM
S82.114B	Nondisplaced fracture of right tibial spine, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.114C	Nondisplaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.115A	Nondisplaced fracture of left tibial spine, initial encounter for closed fracture	DX	ICD-10-CM
S82.115B	Nondisplaced fracture of left tibial spine, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 437 of 702



tills reque			
Code	Description	Code Type	Code Category
S82.115C	Nondisplaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.116A	Nondisplaced fracture of unspecified tibial spine, initial encounter for closed fracture	DX	ICD-10-CM
S82.116B	Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.116C	Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.121A	Displaced fracture of lateral condyle of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.121B	Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.121C	Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.122A	Displaced fracture of lateral condyle of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.122B	Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.122C	Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.123A	Displaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.123B	Displaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.123C	Displaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.124A	Nondisplaced fracture of lateral condyle of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.124B	Nondisplaced fracture of lateral condyle of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.124C	Nondisplaced fracture of lateral condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.125A	Nondisplaced fracture of lateral condyle of left tibia, initial encounter for closed	DX	ICD-10-CM
S82.125B	Nondisplaced fracture of lateral condyle of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.125C	Nondisplaced fracture of lateral condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.126A	Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.126B	Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.126C	Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.131A	Displaced fracture of medial condyle of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.131B	Displaced fracture of medial condyle of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 438 of 702



Code	Description	Code Type	Code Category
S82.131C	Displaced fracture of medial condyle of right tibia, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.132A	Displaced fracture of medial condyle of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.132B	Displaced fracture of medial condyle of left tibia, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.132C	Displaced fracture of medial condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.133A	Displaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.133B	Displaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.133C	Displaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.134A	Nondisplaced fracture of medial condyle of right tibia, initial encounter for closed	DX	ICD-10-CM
S82.134B	fracture  Nondisplaced fracture of medial condyle of right tibia, initial encounter for open	DX	ICD-10-CM
CO2 424C	fracture type I or II	DV	100 40 614
S82.134C	Nondisplaced fracture of medial condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.135A	Nondisplaced fracture of medial condyle of left tibia, initial encounter for closed	DX	ICD-10-CM
S82.135B	Nondisplaced fracture of medial condyle of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.135C	Nondisplaced fracture of medial condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.136A	Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.136B	Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.136C	Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.141A	Displaced bicondylar fracture of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.141B	Displaced bicondylar fracture of right tibia, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.141C	Displaced bicondylar fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.142A	Displaced bicondylar fracture of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.142B	Displaced bicondylar fracture of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.142C	Displaced bicondylar fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.143A	Displaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.143B	Displaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.143C	Displaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 439 of 702



tilis reque			
Code	Description	Code Type	Code Category
S82.144A	Nondisplaced bicondylar fracture of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.144B	Nondisplaced bicondylar fracture of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.144C	Nondisplaced bicondylar fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.145A	Nondisplaced bicondylar fracture of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.145B	Nondisplaced bicondylar fracture of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.145C	Nondisplaced bicondylar fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.146A	Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for closed	DX	ICD-10-CM
S82.146B	Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.146C	Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.151A	Displaced fracture of right tibial tuberosity, initial encounter for closed fracture	DX	ICD-10-CM
S82.151B	Displaced fracture of right tibial tuberosity, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.151C	Displaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.152A	Displaced fracture of left tibial tuberosity, initial encounter for closed fracture	DX	ICD-10-CM
S82.152B	Displaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.152C	Displaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.153A	Displaced fracture of unspecified tibial tuberosity, initial encounter for closed fracture	DX	ICD-10-CM
S82.153B	Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.153C	Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.154A	Nondisplaced fracture of right tibial tuberosity, initial encounter for closed fracture	DX	ICD-10-CM
S82.154B	Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.154C	Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.155A	Nondisplaced fracture of left tibial tuberosity, initial encounter for closed fracture	DX	ICD-10-CM
S82.155B	Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.155C	Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.156A	Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for closed fracture	DX	ICD-10-CM
S82.156B	Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 440 of 702



Codo	Description	Codo Tuna	Codo Catago
Code	Description  New divides and for the second situation of the second situation of the second s	Code Type	Code Category
S82.156C	Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.161A	Torus fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.162A	Torus fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.169A	Torus fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.191A	Other fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.191B	Other fracture of upper end of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.191C	Other fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.192A	Other fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.192B	Other fracture of upper end of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.192C	Other fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.199A	Other fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.199B	Other fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.199C	Other fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.201A	Unspecified fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.201B	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.201C	Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.202A	Unspecified fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.202B	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.202C	Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.209A	Unspecified fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.209B	Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.209C	Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.221A	Displaced transverse fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.221B	Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.221C	Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.222A	Displaced transverse fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.222B	Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.222C	Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.223A	Displaced transverse fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 441 of 702



tins reque			
Code	Description	Code Type	<b>Code Category</b>
S82.223B	Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.223C	Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.224A	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.224B	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.224C	Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.225A	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.225B	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.225C	Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.226A	Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.226B	Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.226C	Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.231A	Displaced oblique fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.231B	Displaced oblique fracture of shaft of right tibia, initial encounter for open fracture type I or II		ICD-10-CM
S82.231C	Displaced oblique fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.232A	Displaced oblique fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.232B	Displaced oblique fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.232C	Displaced oblique fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.233A	Displaced oblique fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.233B	Displaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.233C	Displaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.234A	Nondisplaced oblique fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.234B	Nondisplaced oblique fracture of shaft of right tibia, initial encounter for open fracture		ICD-10-CM
S82.234C	type I or II Nondisplaced oblique fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 442 of 702



Code	Description	Code Type	Code Category
S82.235A	Nondisplaced oblique fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.235B	Nondisplaced oblique fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.235C	Nondisplaced oblique fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.236A	Nondisplaced oblique fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.236B	Nondisplaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.236C	Nondisplaced oblique fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.241A	Displaced spiral fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.241B	Displaced spiral fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.241C	Displaced spiral fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.242A	Displaced spiral fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.242B	Displaced spiral fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.242C	Displaced spiral fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.243A	Displaced spiral fracture of shaft of unspecified tibia, initial encounter for closed	DX	ICD-10-CM
S82.243B	Displaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.243C	Displaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.244A	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.244B	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.244C	Nondisplaced spiral fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.245A	Nondisplaced spiral fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.245B	Nondisplaced spiral fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.245C	Nondisplaced spiral fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.246A	Nondisplaced spiral fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.246B	Nondisplaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.246C	Nondisplaced spiral fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.251A	Displaced comminuted fracture of shaft of right tibia, initial encounter for closed	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 443 of 702



Code	Description	Code Type	Code Category
S82.251B	Displaced comminuted fracture of shaft of right tibia, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.251C	Displaced comminuted fracture of shaft of right tibia, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.252A	Displaced comminuted fracture of shaft of left tibia, initial encounter for closed fracture		ICD-10-CM
S82.252B	Displaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.252C	Displaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.253A	Displaced comminuted fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.253B	Displaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.253C	Displaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.254A	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.254B	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.254C	Nondisplaced comminuted fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.255A	Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.255B	Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.255C	Nondisplaced comminuted fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.256A	Nondisplaced comminuted fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.256B	Nondisplaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.256C	Nondisplaced comminuted fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.261A	Displaced segmental fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.261B	Displaced segmental fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.261C	Displaced segmental fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.262A	Displaced segmental fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.262B	Displaced segmental fracture of shaft of left tibia, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.262C	Displaced segmental fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 444 of 702



Code	Description	Code Type	Code Category
S82.263A	Displaced segmental fracture of shaft of unspecified tibia, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.263B	Displaced segmental fracture of shaft of unspecified tibia, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.263C	Displaced segmental fracture of shaft of unspecified tibia, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.264A	Nondisplaced segmental fracture of shaft of right tibia, initial encounter for closed	DX	ICD-10-CM
CO2 2C4D	fracture	DV	ICD 10 CM
S82.264B	Nondisplaced segmental fracture of shaft of right tibia, initial encounter for open	DX	ICD-10-CM
S82.264C	fracture type I or II  Nondisplaced segmental fracture of shaft of right tibia, initial encounter for open	DX	ICD-10-CM
362.204C	fracture type IIIA, IIIB, or IIIC	DΛ	ICD-10-CIVI
S82.265A	Nondisplaced segmental fracture of shaft of left tibia, initial encounter for closed	DX	ICD-10-CM
S82.265B	Nondisplaced segmental fracture of shaft of left tibia, initial encounter for closed	DX	ICD-10-CM
302.2038	fracture type I or II	D.K	100 10 0101
S82.265C	Nondisplaced segmental fracture of shaft of left tibia, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.266A	Nondisplaced segmental fracture of shaft of unspecified tibia, initial encounter for	DX	ICD-10-CM
	closed fracture		
S82.266B	Nondisplaced segmental fracture of shaft of unspecified tibia, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.266C	Nondisplaced segmental fracture of shaft of unspecified tibia, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.291A	Other fracture of shaft of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.291B	Other fracture of shaft of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.291C		DX	ICD-10-CM
	IIIC		
S82.292A	Other fracture of shaft of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.292B	Other fracture of shaft of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.292C	Other fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S82.299A	Other fracture of shaft of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.299B	Other fracture of shaft of unspecified tibia, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.299C	Other fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.301A	Unspecified fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.301A	Unspecified fracture of lower end of right tibia, initial encounter for open fracture type	DX	ICD-10-CM
302.3016	I or II	DX	ICD-10-CIVI
S82.301C	Unspecified fracture of lower end of right tibia, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.302A	Unspecified fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.302B	Unspecified fracture of lower end of left tibia, initial encounter for open fracture type I	DX	ICD-10-CM
	or II		

cder\_mpl2p\_wp047 Page 445 of 702



Code	Description	Code Type	<b>Code Category</b>
S82.302C	Unspecified fracture of lower end of left tibia, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.309A	Unspecified fracture of lower end of unspecified tibia, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.309B	Unspecified fracture of lower end of unspecified tibia, initial encounter for open	DX	ICD-10-CM
502 2006	fracture type I or II	DV	100 40 604
S82.309C	Unspecified fracture of lower end of unspecified tibia, initial encounter for open	DX	ICD-10-CM
S82.311A	fracture type IIIA, IIIB, or IIIC  Torus fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD 10 CM
S82.311A	Torus fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM ICD-10-CM
S82.312A	Torus fracture of lower end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.391A	Other fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.391A	Other fracture of lower end of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.391C	Other fracture of lower end of right tibia, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
302.3310	IIIB, or IIIC	DA	100 10 0111
S82.392A	Other fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.392B	Other fracture of lower end of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.392C	Other fracture of lower end of left tibia, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S82.399A	Other fracture of lower end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.399B	Other fracture of lower end of unspecified tibia, initial encounter for open fracture type	DX	ICD-10-CM
	l or II		
S82.399C	Other fracture of lower end of unspecified tibia, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.401A	Unspecified fracture of shaft of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.401B	Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.401C	Unspecified fracture of shaft of right fibula, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S82.402A	Unspecified fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.402B	Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.402C	Unspecified fracture of shaft of left fibula, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
CO2 400A	IIIB, or IIIC	DV	16D 40 6N4
S82.409A	Unspecified fracture of shaft of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.409B	Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture	DX	ICD-10-CM
S82.409C	type I or II Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture	DX	ICD-10-CM
302.4030	type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S82.421A	Displaced transverse fracture of shaft of right fibula, initial encounter for closed	DX	ICD-10-CM
S82.421B	Displaced transverse fracture of shaft of right fibula, initial encounter for open fracture	DX	ICD-10-CM
302.7210	type I or II		100 10 0111
S82.421C	Displaced transverse fracture of shaft of right fibula, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.422A	Displaced transverse fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 446 of 702



Code	Description	Code Type	Code Category
S82.422B	Displaced transverse fracture of shaft of left fibula, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.422C	Displaced transverse fracture of shaft of left fibula, initial encounter for open fracture	DX	ICD-10-CM
S82.423A	type IIIA, IIIB, or IIIC  Displaced transverse fracture of shaft of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
302.423A	fracture	DX	ICD-10-CIVI
S82.423B	Displaced transverse fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.423C	Displaced transverse fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.424A	Nondisplaced transverse fracture of shaft of right fibula, initial encounter for closed	DX	ICD-10-CM
500 4045	fracture	51/	105 10 011
S82.424B	Nondisplaced transverse fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
S82.424C	fracture type I or II  Nondisplaced transverse fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
302.4240	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S82.425A	Nondisplaced transverse fracture of shaft of left fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.425B	Nondisplaced transverse fracture of shaft of left fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.425C	Nondisplaced transverse fracture of shaft of left fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC	51/	105 40 014
S82.426A	Nondisplaced transverse fracture of shaft of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.426B	Nondisplaced transverse fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
302.4200	open fracture type I or II	DX	TCD TO CIVI
S82.426C	Nondisplaced transverse fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S82.431A	Displaced oblique fracture of shaft of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.431B	Displaced oblique fracture of shaft of right fibula, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.431C	Displaced oblique fracture of shaft of right fibula, initial encounter for open fracture	DX	ICD-10-CM
S82.432A	type IIIA, IIIB, or IIIC  Displaced oblique fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.432B	Displaced oblique fracture of shaft of left fibula, initial encounter for closed fracture type		ICD-10-CM
302.4325	I or II	D.K	TCD TO CIVI
S82.432C	Displaced oblique fracture of shaft of left fibula, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.433A	Displaced oblique fracture of shaft of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.433B	Displaced oblique fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		

cder\_mpl2p\_wp047 Page 447 of 702



Code	Description	Code Type	Code Category
S82.433C	Displaced oblique fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.434A	Nondisplaced oblique fracture of shaft of right fibula, initial encounter for closed	DX	ICD-10-CM
S82.434B	Nondisplaced oblique fracture of shaft of right fibula, initial encounter for open fracture type I or II		ICD-10-CM
S82.434C	Nondisplaced oblique fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.435A	Nondisplaced oblique fracture of shaft of left fibula, initial encounter for closed fracture		ICD-10-CM
S82.435B	Nondisplaced oblique fracture of shaft of left fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.435C	Nondisplaced oblique fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.436A	Nondisplaced oblique fracture of shaft of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.436B	Nondisplaced oblique fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.436C	Nondisplaced oblique fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.441A	Displaced spiral fracture of shaft of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.441B	Displaced spiral fracture of shaft of right fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.441C	Displaced spiral fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.442A	Displaced spiral fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.442B	Displaced spiral fracture of shaft of left fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.442C	Displaced spiral fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.443A	Displaced spiral fracture of shaft of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.443B	Displaced spiral fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.443C	Displaced spiral fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.444A	Nondisplaced spiral fracture of shaft of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.444B	Nondisplaced spiral fracture of shaft of right fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.444C	Nondisplaced spiral fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.445A	Nondisplaced spiral fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.445B	Nondisplaced spiral fracture of shaft of left fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 448 of 702



Codo	Description	Codo Tuno	Code Category
Code	Description	Code Type	Code Category
S82.445C	Nondisplaced spiral fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.446A	Nondisplaced spiral fracture of shaft of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.446B	Nondisplaced spiral fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.446C	Nondisplaced spiral fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.451A	Displaced comminuted fracture of shaft of right fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.451B	Displaced comminuted fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
CO2 4E4C	fracture type I or II	DV	ICD 10 CM
S82.451C	Displaced comminuted fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.452A	Displaced comminuted fracture of shaft of left fibula, initial encounter for closed	DX	ICD-10-CM
S82.452B	Displaced comminuted fracture of shaft of left fibula, initial encounter for open fracture		ICD-10-CM
302.4320	type I or II	D.K	ICD TO CIVI
S82.452C	Displaced comminuted fracture of shaft of left fibula, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.453A	Displaced comminuted fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S82.453B	Displaced comminuted fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.453C	Displaced comminuted fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.454A	Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for closed	DX	ICD-10-CM
CO2 4E4D	fracture	DV	ICD 10 CM
S82.454B	Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
S82.454C	fracture type I or II  Nondisplaced comminuted fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
302.4340	fracture type IIIA, IIIB, or IIIC	DX	ICD 10 CIVI
S82.455A	Nondisplaced comminuted fracture of shaft of left fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.455B	Nondisplaced comminuted fracture of shaft of left fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.455C	Nondisplaced comminuted fracture of shaft of left fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.456A	Nondisplaced comminuted fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S82.456B	Nondisplaced comminuted fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
602 4555	open fracture type I or II	D.V	105 10 5
S82.456C	Nondisplaced comminuted fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		

cder\_mpl2p\_wp047 Page 449 of 702



Code	Description	Code Type	Code Category
S82.461A	Displaced segmental fracture of shaft of right fibula, initial encounter for closed fracture		ICD-10-CM
S82.461B	Displaced segmental fracture of shaft of right fibula, initial encounter for open fracture	DX	ICD-10-CM
502 4546	type I or II	DV	100 40 614
S82.461C	Displaced segmental fracture of shaft of right fibula, initial encounter for open fracture	DX	ICD-10-CM
CO2 4C24	type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S82.462A	Displaced segmental fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.462B	Displaced segmental fracture of shaft of left fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.462C	Displaced segmental fracture of shaft of left fibula, initial encounter for open fracture	DX	ICD-10-CM
302.402C	type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S82.463A	Displaced segmental fracture of shaft of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
302.403/1	fracture	DA.	100 10 0141
S82.463B	Displaced segmental fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
002111002	fracture type I or II		.02 20 0
S82.463C	Displaced segmental fracture of shaft of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.464A	Nondisplaced segmental fracture of shaft of right fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.464B	Nondisplaced segmental fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.464C	Nondisplaced segmental fracture of shaft of right fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.465A	Nondisplaced segmental fracture of shaft of left fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.465B	Nondisplaced segmental fracture of shaft of left fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.465C	Nondisplaced segmental fracture of shaft of left fibula, initial encounter for open	DX	ICD-10-CM
500 4554	fracture type IIIA, IIIB, or IIIC	5.4	105 10 011
S82.466A	Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for	DX	ICD-10-CM
CO2 4CCD	closed fracture	DV	100 40 604
S82.466B	Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.466C	Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for	DV	ICD-10-CM
362.400C	open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S82.491A	Other fracture of shaft of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.491B	Other fracture of shaft of right fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.491C	Other fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB,	DX	ICD-10-CM
502.1510	or IIIC		100 10 0.01
S82.492A	Other fracture of shaft of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.492B	Other fracture of shaft of left fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.492C	Other fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
	IIIC		
S82.499A	Other fracture of shaft of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 450 of 702



Code	Description	Code Type	<b>Code Category</b>
S82.499B	Other fracture of shaft of unspecified fibula, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.499C	Other fracture of shaft of unspecified fibula, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S82.51XA	Displaced fracture of medial malleolus of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.51XB	Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.51XC	Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.52XA	Displaced fracture of medial malleolus of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.52XB	Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.52XC	Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.53XA	Displaced fracture of medial malleolus of unspecified tibia, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.53XB	Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.53XC	Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.54XA	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for closed	DX	ICD-10-CM
500 5445	fracture	5.7	100 10 011
S82.54XB	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open	DX	ICD-10-CM
CO2 E 4VC	fracture type I or II	DV	ICD 40 CN4
S82.54XC	Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open	DX	ICD-10-CM
CO2	fracture type IIIA, IIIB, or IIIC	DV	ICD 10 CM
S82.55XA	Nondisplaced fracture of medial malleolus of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.55XB	Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open	DX	ICD-10-CM
302.3310	fracture type I or II	DX	ICD-10-CIVI
S82.55XC	Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open	DX	ICD-10-CM
302.33AC	fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S82.56XA	Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for	DX	ICD-10-CM
302.30XA	closed fracture	D/A	ICD TO CIVI
S82.56XB	Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for	DX	ICD-10-CM
302.30/10	open fracture type I or II		105 10 011
S82.56XC	Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for	DX	ICD-10-CM
502.507.0	open fracture type IIIA, IIIB, or IIIC		.02 20 0
S82.61XA	Displaced fracture of lateral malleolus of right fibula, initial encounter for closed	DX	ICD-10-CM
S82.61XB	Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture		ICD-10-CM
	type I or II		
S82.61XC	Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.62XA	Displaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 451 of 702



tins reque	··		
Code	Description	Code Type	Code Category
S82.62XB	Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture	DX	ICD-10-CM
coa cayo	type I or II	DV	ICD 10 CM
S82.62XC	Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.63XA	Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
002.007	fracture		.02 20 0
S82.63XB	Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.63XC	Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S82.64XA	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for closed	DX	ICD-10-CM
CO2 64VD	fracture  Nondisplaced fracture of lateral malloclus of right fibula, initial encounter for open	DX	ICD 10 CM
S82.64XB	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.64XC	Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open	DX	ICD-10-CM
002.00	fracture type IIIA, IIIB, or IIIC		.02 20 0
S82.65XA	Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S82.65XB	Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S82.65XC	Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open	DX	ICD-10-CM
CO2 CCVA	fracture type IIIA, IIIB, or IIIC	DV	100 40 614
S82.66XA	Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.66XB	Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for	DX	ICD-10-CM
302.00AB	open fracture type I or II	DX	100 10 0111
S82.66XC	Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for	DX	ICD-10-CM
	open fracture type IIIA, IIIB, or IIIC		
S82.811A	Torus fracture of upper end of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.812A	Torus fracture of upper end of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.819A	Torus fracture of upper end of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.821A	Torus fracture of lower end of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.822A	Torus fracture of lower end of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.829A	Torus fracture of lower end of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.831A	Other fracture of upper and lower end of right fibula, initial encounter for closed	DX	ICD-10-CM
S82.831B	Other fracture of upper and lower end of right fibula, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S82.831C	Other fracture of upper and lower end of right fibula, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.832A	Other fracture of upper and lower end of left fibula, initial encounter for closed fracture		ICD-10-CM
S82.832B	Other fracture of upper and lower end of left fibula, initial encounter for open fracture	υX	ICD-10-CM
	type I or II		

cder\_mpl2p\_wp047 Page 452 of 702



Code	Description	Code Type	Code Category
S82.832C	Other fracture of upper and lower end of left fibula, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.839A	Other fracture of upper and lower end of unspecified fibula, initial encounter for closed fracture	DX	ICD-10-CM
S82.839B	Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.839C	Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.841A	Displaced bimalleolar fracture of right lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.841B	Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.841C	Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.842A	Displaced bimalleolar fracture of left lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.842B	Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.842C	Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.843A	Displaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.843B	Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.843C	Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.844A	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for closed	DX	ICD-10-CM
S82.844B	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.844C	Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.845A	Nondisplaced bimalleolar fracture of left lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.845B	Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.845C	Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.846A	Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.846B	Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.846C	Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.851A	Displaced trimalleolar fracture of right lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.851B	Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 453 of 702



tins reque			
Code	Description	Code Type	Code Category
S82.851C	Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.852A	Displaced trimalleolar fracture of left lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.852B	Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.852C	Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.853A	Displaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.853B	Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.853C	Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.854A	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for closed	DX	ICD-10-CM
S82.854B	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.854C	Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.855A	Nondisplaced trimalleolar fracture of left lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.855B	Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.855C	Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.856A	Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.856B	Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.856C	Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.861A	Displaced Maisonneuve's fracture of right leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.861B	Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.861C	Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.862A	Displaced Maisonneuve's fracture of left leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.862B	Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.862C	Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.863A	Displaced Maisonneuve's fracture of unspecified leg, initial encounter for closed	DX	ICD-10-CM
S82.863B	Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 454 of 702



Code	Description	Code Type	<b>Code Category</b>
S82.863C	Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S82.864A	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.864B	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.864C	Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.865A	Nondisplaced Maisonneuve's fracture of left leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.865B	Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.865C	Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.866A	Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.866B	Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.866C	Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.871A	Displaced pilon fracture of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.871B	Displaced pilon fracture of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.871C	Displaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.872A	Displaced pilon fracture of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.872B	Displaced pilon fracture of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.872C	Displaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.873A	Displaced pilon fracture of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.873B	Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or	DX	ICD-10-CM
S82.873C	Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.874A	Nondisplaced pilon fracture of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.874B	Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.874C	Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.875A	Nondisplaced pilon fracture of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.875B	Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.875C	Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.876A	Nondisplaced pilon fracture of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S82.876B	Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.876C	Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 455 of 702



Code	Description	Code Type	Code Category
S82.891A	Other fracture of right lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.891B	Other fracture of right lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.891C	Other fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC		ICD-10-CM
S82.892A	Other fracture of left lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.892B	Other fracture of left lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.892C	Other fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.899A	Other fracture of unspecified lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.899B	Other fracture of unspecified lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.899C	Other fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.90XA	Unspecified fracture of unspecified lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.90XB	Unspecified fracture of unspecified lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.90XC	Unspecified fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.91XA	Unspecified fracture of right lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.91XB	Unspecified fracture of right lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.91XC	Unspecified fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S82.92XA	Unspecified fracture of left lower leg, initial encounter for closed fracture	DX	ICD-10-CM
S82.92XB	Unspecified fracture of left lower leg, initial encounter for open fracture type I or II	DX	ICD-10-CM
S82.92XC	Unspecified fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S87.00XA	Crushing injury of unspecified knee, initial encounter	DX	ICD-10-CM
S87.01XA	Crushing injury of right knee, initial encounter	DX	ICD-10-CM
S87.02XA	Crushing injury of left knee, initial encounter	DX	ICD-10-CM
S87.80XA	Crushing injury of unspecified lower leg, initial encounter	DX	ICD-10-CM
S87.81XA	Crushing injury of right lower leg, initial encounter	DX	ICD-10-CM
S87.82XA	Crushing injury of left lower leg, initial encounter	DX	ICD-10-CM
S89.001A	Unspecified physeal fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.002A	Unspecified physeal fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.009A	Unspecified physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.011A	Salter-Harris Type I physeal fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.012A	Salter-Harris Type I physeal fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.019A	Salter-Harris Type I physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.021A	Salter-Harris Type II physeal fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 456 of 702



tills reque			
Code	Description	Code Type	Code Category
S89.022A	Salter-Harris Type II physeal fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.029A	Salter-Harris Type II physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.031A	Salter-Harris Type III physeal fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.032A	Salter-Harris Type III physeal fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.039A	Salter-Harris Type III physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.041A	Salter-Harris Type IV physeal fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.042A	Salter-Harris Type IV physeal fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.049A	Salter-Harris Type IV physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.091A	Other physeal fracture of upper end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.092A	Other physeal fracture of upper end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.099A	Other physeal fracture of upper end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.101A	Unspecified physeal fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.102A	Unspecified physeal fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.109A	Unspecified physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.111A	Salter-Harris Type I physeal fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.112A	Salter-Harris Type I physeal fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.119A	Salter-Harris Type I physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.121A	Salter-Harris Type II physeal fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.122A	Salter-Harris Type II physeal fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.129A	Salter-Harris Type II physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.131A	Salter-Harris Type III physeal fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.132A	Salter-Harris Type III physeal fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 457 of 702



Code	Description	Code Type	Code Category
S89.139A	Salter-Harris Type III physeal fracture of lower end of unspecified tibia, initial encounter	DX	ICD-10-CM
	for closed fracture		
S89.141A	Salter-Harris Type IV physeal fracture of lower end of right tibia, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.142A	Salter-Harris Type IV physeal fracture of lower end of left tibia, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.149A	Salter-Harris Type IV physeal fracture of lower end of unspecified tibia, initial encounter	DX	ICD-10-CM
500 404 4	for closed fracture	BV.	100 40 614
S89.191A	Other physeal fracture of lower end of right tibia, initial encounter for closed fracture	DX	ICD-10-CM
S89.192A S89.199A	Other physical fracture of lower end of left tibia, initial encounter for closed fracture	DX	ICD-10-CM ICD-10-CM
309.199A	Other physeal fracture of lower end of unspecified tibia, initial encounter for closed fracture	DX	ICD-10-CIVI
S89.201A	Unspecified physeal fracture of upper end of right fibula, initial encounter for closed	DX	ICD-10-CM
303.201A	fracture	DA	ICD TO CIVI
S89.202A	Unspecified physeal fracture of upper end of left fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S89.209A	Unspecified physeal fracture of upper end of unspecified fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.211A	Salter-Harris Type I physeal fracture of upper end of right fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.212A	Salter-Harris Type I physeal fracture of upper end of left fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.219A	Salter-Harris Type I physeal fracture of upper end of unspecified fibula, initial encounter	DX	ICD-10-CM
	for closed fracture		
S89.221A	Salter-Harris Type II physeal fracture of upper end of right fibula, initial encounter for	DX	ICD-10-CM
COO 2224	closed fracture	DV	ICD 10 CM
S89.222A	Salter-Harris Type II physeal fracture of upper end of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S89.229A	Salter-Harris Type II physeal fracture of upper end of unspecified fibula, initial	DX	ICD-10-CM
303.223A	encounter for closed fracture	DX	ICD-10-CIVI
S89.291A	Other physeal fracture of upper end of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S89.292A	Other physeal fracture of upper end of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S89.299A	Other physeal fracture of upper end of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S89.301A	Unspecified physeal fracture of lower end of right fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S89.302A	Unspecified physeal fracture of lower end of left fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S89.309A	Unspecified physeal fracture of lower end of unspecified fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.311A	Salter-Harris Type I physeal fracture of lower end of right fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		

cder\_mpl2p\_wp047 Page 458 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
S89.312A	Salter-Harris Type I physeal fracture of lower end of left fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.319A	Salter-Harris Type I physeal fracture of lower end of unspecified fibula, initial encounter	DX	ICD-10-CM
	for closed fracture		
S89.321A	Salter-Harris Type II physeal fracture of lower end of right fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.322A	Salter-Harris Type II physeal fracture of lower end of left fibula, initial encounter for	DX	ICD-10-CM
	closed fracture		
S89.329A	Salter-Harris Type II physeal fracture of lower end of unspecified fibula, initial	DX	ICD-10-CM
	encounter for closed fracture		
S89.391A	Other physeal fracture of lower end of right fibula, initial encounter for closed fracture	DX	ICD-10-CM
S89.392A	Other physeal fracture of lower end of left fibula, initial encounter for closed fracture	DX	ICD-10-CM
S89.399A	Other physeal fracture of lower end of unspecified fibula, initial encounter for closed	DX	ICD-10-CM
	fracture		
S97.00XA	Crushing injury of unspecified ankle, initial encounter	DX	ICD-10-CM
S97.01XA	Crushing injury of right ankle, initial encounter	DX	ICD-10-CM
S97.02XA	Crushing injury of left ankle, initial encounter	DX	ICD-10-CM
S97.101A	Crushing injury of unspecified right toe(s), initial encounter	DX	ICD-10-CM
S97.102A	Crushing injury of unspecified left toe(s), initial encounter	DX	ICD-10-CM
S97.109A	Crushing injury of unspecified toe(s), initial encounter	DX	ICD-10-CM
S97.111A	Crushing injury of right great toe, initial encounter	DX	ICD-10-CM
S97.112A	Crushing injury of left great toe, initial encounter	DX	ICD-10-CM
S97.119A	Crushing injury of unspecified great toe, initial encounter	DX	ICD-10-CM
S97.121A	Crushing injury of right lesser toe(s), initial encounter	DX	ICD-10-CM
S97.122A	Crushing injury of left lesser toe(s), initial encounter	DX	ICD-10-CM
S97.129A	Crushing injury of unspecified lesser toe(s), initial encounter	DX	ICD-10-CM
S97.80XA	Crushing injury of unspecified foot, initial encounter	DX	ICD-10-CM
S97.81XA	Crushing injury of right foot, initial encounter	DX	ICD-10-CM
S97.82XA	Crushing injury of left foot, initial encounter	DX	ICD-10-CM
T14.8XXA	Other injury of unspecified body region, initial encounter	DX	ICD-10-CM
T79.4XXA	Traumatic shock, initial encounter	DX	ICD-10-CM
T79.5XXA	Traumatic anuria, initial encounter	DX	ICD-10-CM
T79.7XXA	Traumatic subcutaneous emphysema, initial encounter	DX	ICD-10-CM
T82.817A	Embolism due to cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.818A	Embolism due to vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.827A	Fibrosis due to cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.828A	Fibrosis due to vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.837A	Hemorrhage due to cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.838A	Hemorrhage due to vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.847A	Pain due to cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.848A	Pain due to vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.855A	Stenosis of coronary artery stent, initial encounter	DX	ICD-10-CM
T82.856A	Stenosis of peripheral vascular stent, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 459 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
T82.857A	Stenosis of other cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.858A	Stenosis of other vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.867A	Thrombosis due to cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.868A	Thrombosis due to vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.897A	Other specified complication of cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.898A	Other specified complication of vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.9XXA	Unspecified complication of cardiac and vascular prosthetic device, implant and graft, initial encounter	DX	ICD-10-CM
T83.81XA	Embolism due to genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.82XA	Fibrosis due to genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.83XA	Hemorrhage due to genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.84XA	Pain due to genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.85XA	Stenosis due to genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.86XA	Thrombosis due to genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.89XA	Other specified complication of genitourinary prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T83.9XXA	Unspecified complication of genitourinary prosthetic device, implant and graft, initial encounter	DX	ICD-10-CM
T84.81XA	Embolism due to internal orthopedic prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T84.82XA	Fibrosis due to internal orthopedic prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T84.83XA	Hemorrhage due to internal orthopedic prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T84.84XA	Pain due to internal orthopedic prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
T84.85XA	Stenosis due to internal orthopedic prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T84.86XA	Thrombosis due to internal orthopedic prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T84.89XA	Other specified complication of internal orthopedic prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T84.9XXA	Unspecified complication of internal orthopedic prosthetic device, implant and graft, initial encounter	DX	ICD-10-CM
T85.810A	Embolism due to nervous system prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T85.818A	Embolism due to other internal prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
T85.820A	Fibrosis due to nervous system prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T85.828A	Fibrosis due to other internal prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 460 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
T85.830A	Hemorrhage due to nervous system prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
	encounter		
T85.838A	Hemorrhage due to other internal prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
	encounter		
T85.840A	Pain due to nervous system prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T85.848A	Pain due to other internal prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T85.850A	Stenosis due to nervous system prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
T85.858A	Stenosis due to other internal prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T85.860A	Thrombosis due to nervous system prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
	encounter		
T85.868A	Thrombosis due to other internal prosthetic devices, implants and grafts, initial	DX	ICD-10-CM
	encounter		
T85.890A	Other specified complication of nervous system prosthetic devices, implants and grafts,	DX	ICD-10-CM
	initial encounter		
T85.898A	Other specified complication of other internal prosthetic devices, implants and grafts,	DX	ICD-10-CM
	initial encounter		
T85.9XXA	Unspecified complication of internal prosthetic device, implant and graft, initial	DX	ICD-10-CM
	encounter		
T86.848	Other complications of corneal transplant	DX	ICD-10-CM
T86.849	Unspecified complication of corneal transplant	DX	ICD-10-CM
T88.8XXA	Other specified complications of surgical and medical care, not elsewhere classified,	DX	ICD-10-CM
VOE 00VA	initial encounter	DV	ICD 10 CM
V05.00XA	Pedestrian on foot injured in collision with railway train or railway vehicle in nontraffic	DX	ICD-10-CM
V05.00XD	accident, initial encounter  Pedestrian on foot injured in collision with railway train or railway vehicle in nontraffic	DX	ICD-10-CM
VU3.00AD	accident, subsequent encounter	DX	ICD-10-CIVI
V05.01XA	Pedestrian on roller-skates injured in collision with railway train or railway vehicle in	DX	ICD-10-CM
V03.01AA	nontraffic accident, initial encounter	DX	ICD-10-CIVI
V05.01XD	Pedestrian on roller-skates injured in collision with railway train or railway vehicle in	DX	ICD-10-CM
V03.01AD	nontraffic accident, subsequent encounter	DA	ICD TO CIVI
V05.02XA	Pedestrian on skateboard injured in collision with railway train or railway vehicle in	DX	ICD-10-CM
103.02701	nontraffic accident, initial encounter		105 10 0111
V05.02XD	Pedestrian on skateboard injured in collision with railway train or railway vehicle in	DX	ICD-10-CM
	nontraffic accident, subsequent encounter		
V05.09XA	Pedestrian with other conveyance injured in collision with railway train or railway	DX	ICD-10-CM
	vehicle in nontraffic accident, initial encounter		
V05.09XD	Pedestrian with other conveyance injured in collision with railway train or railway	DX	ICD-10-CM
	vehicle in nontraffic accident, subsequent encounter		
V15.2XXA	Unspecified pedal cyclist injured in collision with railway train or railway vehicle in	DX	ICD-10-CM
	nontraffic accident, initial encounter		
V81.2XXA	Occupant of railway train or railway vehicle injured in collision with or hit by rolling	DX	ICD-10-CM
	stock, initial encounter		
W11.XXXA	Fall on and from ladder, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 461 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
W11.XXXD	Fall on and from ladder, subsequent encounter	DX	ICD-10-CM
W12.XXXA	Fall on and from scaffolding, initial encounter	DX	ICD-10-CM
W12.XXXD	Fall on and from scaffolding, subsequent encounter	DX	ICD-10-CM
W13.0XXA	Fall from, out of or through balcony, initial encounter	DX	ICD-10-CM
W13.0XXD	Fall from, out of or through balcony, subsequent encounter	DX	ICD-10-CM
W13.1XXA	Fall from, out of or through bridge, initial encounter	DX	ICD-10-CM
W13.1XXD	Fall from, out of or through bridge, subsequent encounter	DX	ICD-10-CM
W13.2XXA	Fall from, out of or through roof, initial encounter	DX	ICD-10-CM
W13.2XXD	Fall from, out of or through roof, subsequent encounter	DX	ICD-10-CM
W13.3XXA	Fall through floor, initial encounter	DX	ICD-10-CM
W13.3XXD	Fall through floor, subsequent encounter	DX	ICD-10-CM
W13.4XXA	Fall from, out of or through window, initial encounter	DX	ICD-10-CM
W13.4XXD	Fall from, out of or through window, subsequent encounter	DX	ICD-10-CM
W13.8XXA	Fall from, out of or through other building or structure, initial encounter	DX	ICD-10-CM
W13.8XXD	Fall from, out of or through other building or structure, subsequent encounter	DX	ICD-10-CM
W13.9XXA	Fall from, out of or through building, not otherwise specified, initial encounter	DX	ICD-10-CM
W13.9XXD	Fall from, out of or through building, not otherwise specified, subsequent encounter	DX	ICD-10-CM
W16.011A	Fall into swimming pool striking water surface causing drowning and submersion, initial	DX	ICD-10-CM
	encounter		
W16.011D	Fall into swimming pool striking water surface causing drowning and submersion,	DX	ICD-10-CM
	subsequent encounter		
W16.012A	Fall into swimming pool striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.012D	Fall into swimming pool striking water surface causing other injury, subsequent	DX	ICD-10-CM
	encounter		
W16.021A	Fall into swimming pool striking bottom causing drowning and submersion, initial	DX	ICD-10-CM
	encounter		
W16.021D	Fall into swimming pool striking bottom causing drowning and submersion, subsequent	DX	ICD-10-CM
	encounter		
W16.022A	Fall into swimming pool striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.022D	Fall into swimming pool striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.031A	Fall into swimming pool striking wall causing drowning and submersion, initial	DX	ICD-10-CM
W16.031D	Fall into swimming pool striking wall causing drowning and submersion, subsequent	DX	ICD-10-CM
	encounter		
W16.032A	Fall into swimming pool striking wall causing other injury, initial encounter	DX	ICD-10-CM
W16.032D	Fall into swimming pool striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.111A	Fall into natural body of water striking water surface causing drowning and submersion,	DX	ICD-10-CM
	initial encounter		
W16.111D	Fall into natural body of water striking water surface causing drowning and submersion,	DX	ICD-10-CM
	subsequent encounter		
W16.112A	Fall into natural body of water striking water surface causing other injury, initial	DX	ICD-10-CM
	encounter		
W16.112D	Fall into natural body of water striking water surface causing other injury, subsequent	DX	ICD-10-CM
	encounter		

cder\_mpl2p\_wp047 Page 462 of 702



_			
Code	Description	Code Type	Code Category
W16.121A	Fall into natural body of water striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.121D	Fall into natural body of water striking bottom causing drowning and submersion,	DX	ICD-10-CM
	subsequent encounter		
W16.122A	Fall into natural body of water striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.122D	Fall into natural body of water striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.131A	Fall into natural body of water striking side causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.131D	Fall into natural body of water striking side causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.132A	Fall into natural body of water striking side causing other injury, initial encounter	DX	ICD-10-CM
W16.132D	Fall into natural body of water striking side causing other injury, subsequent encounter	DX	ICD-10-CM
W16.211A	Fall in (into) filled bathtub causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.211D	Fall in (into) filled bathtub causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.212A	Fall in (into) filled bathtub causing other injury, initial encounter	DX	ICD-10-CM
W16.212D	Fall in (into) filled bathtub causing other injury, subsequent encounter	DX	ICD-10-CM
W16.221A	Fall in (into) bucket of water causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.221D	Fall in (into) bucket of water causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.222A	Fall in (into) bucket of water causing other injury, initial encounter	DX	ICD-10-CM
W16.222D	Fall in (into) bucket of water causing other injury, subsequent encounter	DX	ICD-10-CM
W16.311A	Fall into other water striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.311D	Fall into other water striking water surface causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.312A	Fall into other water striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.312D	Fall into other water striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.321A	Fall into other water striking bottom causing drowning and submersion, initial	DX	ICD-10-CM
W16.321D	Fall into other water striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.322A	Fall into other water striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.322D	Fall into other water striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.331A	Fall into other water striking wall causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.331D	Fall into other water striking wall causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.332A	Fall into other water striking wall causing other injury, initial encounter	DX	ICD-10-CM
W16.332D	Fall into other water striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.41XA	Fall into unspecified water causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.41XD	Fall into unspecified water causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.42XA	Fall into unspecified water causing other injury, initial encounter	DX	ICD-10-CM
W16.42XD	Fall into unspecified water causing other injury, subsequent encounter	DX	ICD-10-CM
W16.511A	Jumping or diving into swimming pool striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 463 of 702



Code	Description	Code Type	Code Category
W16.511D	Jumping or diving into swimming pool striking water surface causing drowning and	DX	ICD-10-CM
	submersion, subsequent encounter		
W16.512A	Jumping or diving into swimming pool striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.512D	Jumping or diving into swimming pool striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.521A	Jumping or diving into swimming pool striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.521D	Jumping or diving into swimming pool striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.522A	Jumping or diving into swimming pool striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.522D	Jumping or diving into swimming pool striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.531A	Jumping or diving into swimming pool striking wall causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.531D	Jumping or diving into swimming pool striking wall causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.532A	Jumping or diving into swimming pool striking wall causing other injury, initial	DX	ICD-10-CM
W16.532D	Jumping or diving into swimming pool striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.611A	Jumping or diving into natural body of water striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.611D	Jumping or diving into natural body of water striking water surface causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.612A	Jumping or diving into natural body of water striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.612D	Jumping or diving into natural body of water striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.621A	Jumping or diving into natural body of water striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.621D	Jumping or diving into natural body of water striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.622A	Jumping or diving into natural body of water striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.622D	Jumping or diving into natural body of water striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.711A	Jumping or diving from boat striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.711D	Jumping or diving from boat striking water surface causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.712A	Jumping or diving from boat striking water surface causing other injury, initial	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 464 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
W16.712D	Jumping or diving from boat striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.721A	Jumping or diving from boat striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.721D	Jumping or diving from boat striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.722A	Jumping or diving from boat striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.722D	Jumping or diving from boat striking bottom causing other injury, subsequent	DX	ICD-10-CM
W16.811A	Jumping or diving into other water striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.811D	Jumping or diving into other water striking water surface causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.812A	Jumping or diving into other water striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.812D	Jumping or diving into other water striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.821A	Jumping or diving into other water striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.821D	Jumping or diving into other water striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.822A	Jumping or diving into other water striking bottom causing other injury, initial	DX	ICD-10-CM
W16.822D	Jumping or diving into other water striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.831A	Jumping or diving into other water striking wall causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.831D	Jumping or diving into other water striking wall causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.832A	Jumping or diving into other water striking wall causing other injury, initial encounter	DX	ICD-10-CM
W16.832D	Jumping or diving into other water striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.91XA	Jumping or diving into unspecified water causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.91XD	Jumping or diving into unspecified water causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.92XA	Jumping or diving into unspecified water causing other injury, initial encounter	DX	ICD-10-CM
W16.92XD	Jumping or diving into unspecified water causing other injury, subsequent encounter	DX	ICD-10-CM
W17.0XXA	Fall into well, initial encounter	DX	ICD-10-CM
W17.0XXD	Fall into well, subsequent encounter	DX	ICD-10-CM
W17.1XXA	Fall into storm drain or manhole, initial encounter	DX	ICD-10-CM
W17.1XXD	Fall into storm drain or manhole, subsequent encounter	DX	ICD-10-CM
W17.2XXA	Fall into hole, initial encounter	DX	ICD-10-CM
W17.2XXD	Fall into hole, subsequent encounter	DX	ICD-10-CM
W17.3XXA	Fall into empty swimming pool, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 465 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reques	•		
Code	Description	Code Type	Code Category
W17.3XXD	Fall into empty swimming pool, subsequent encounter	DX	ICD-10-CM
W17.4XXA	Fall from dock, initial encounter	DX	ICD-10-CM
W17.4XXD	Fall from dock, subsequent encounter	DX	ICD-10-CM
W32.0XXA	Accidental handgun discharge, initial encounter	DX	ICD-10-CM
W32.0XXD	Accidental handgun discharge, subsequent encounter	DX	ICD-10-CM
W32.1XXA	Accidental handgun malfunction, initial encounter	DX	ICD-10-CM
W32.1XXD	Accidental handgun malfunction, subsequent encounter	DX	ICD-10-CM
W33.00XA	Accidental discharge of unspecified larger firearm, initial encounter	DX	ICD-10-CM
W33.00XD	Accidental discharge of unspecified larger firearm, subsequent encounter	DX	ICD-10-CM
W33.01XA	Accidental discharge of shotgun, initial encounter	DX	ICD-10-CM
W33.01XD	Accidental discharge of shotgun, subsequent encounter	DX	ICD-10-CM
W33.02XA	Accidental discharge of hunting rifle, initial encounter	DX	ICD-10-CM
W33.02XD	Accidental discharge of hunting rifle, subsequent encounter	DX	ICD-10-CM
W33.03XA	Accidental discharge of machine gun, initial encounter	DX	ICD-10-CM
W33.03XD	Accidental discharge of machine gun, subsequent encounter	DX	ICD-10-CM
W33.09XA	Accidental discharge of other larger firearm, initial encounter	DX	ICD-10-CM
W33.09XD	Accidental discharge of other larger firearm, subsequent encounter	DX	ICD-10-CM
W33.10XA	Accidental malfunction of unspecified larger firearm, initial encounter	DX	ICD-10-CM
W33.10XD	Accidental malfunction of unspecified larger firearm, subsequent encounter	DX	ICD-10-CM
W33.11XA	Accidental malfunction of shotgun, initial encounter	DX	ICD-10-CM
W33.11XD	Accidental malfunction of shotgun, subsequent encounter	DX	ICD-10-CM
W33.12XA	Accidental malfunction of hunting rifle, initial encounter	DX	ICD-10-CM
W33.12XD	Accidental malfunction of hunting rifle, subsequent encounter	DX	ICD-10-CM
W33.13XA	Accidental malfunction of machine gun, initial encounter	DX	ICD-10-CM
W33.13XD	Accidental malfunction of machine gun, subsequent encounter	DX	ICD-10-CM
W33.19XA	Accidental malfunction of other larger firearm, initial encounter	DX	ICD-10-CM
W33.19XD	Accidental malfunction of other larger firearm, subsequent encounter	DX	ICD-10-CM
W34.00XA	Accidental discharge from unspecified firearms or gun, initial encounter	DX	ICD-10-CM
W34.00XD	Accidental discharge from unspecified firearms or gun, subsequent encounter	DX	ICD-10-CM
W34.010A	Accidental discharge of airgun, initial encounter	DX	ICD-10-CM
W34.010D	Accidental discharge of airgun, subsequent encounter	DX	ICD-10-CM
W34.011A	Accidental discharge of paintball gun, initial encounter	DX	ICD-10-CM
W34.011D	Accidental discharge of paintball gun, subsequent encounter	DX	ICD-10-CM
W34.018A	Accidental discharge of other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
W34.018D	Accidental discharge of other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
W34.09XA	Accidental discharge from other specified firearms, initial encounter	DX	ICD-10-CM
W34.09XD	Accidental discharge from other specified firearms, subsequent encounter	DX	ICD-10-CM
W34.10XA	Accidental malfunction from unspecified firearms or gun, initial encounter	DX	ICD-10-CM
W34.10XD	Accidental malfunction from unspecified firearms or gun, subsequent encounter	DX	ICD-10-CM
W34.110A	Accidental malfunction of airgun, initial encounter	DX	ICD-10-CM
W34.110D	Accidental malfunction of airgun, subsequent encounter	DX	ICD-10-CM
W34.111A	Accidental malfunction of paintball gun, initial encounter	DX	ICD-10-CM
W34.111D	Accidental malfunction of paintball gun, subsequent encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 466 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tins reques			
Code	Description	Code Type	Code Category
W34.118A	Accidental malfunction of other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
W34.118D	Accidental malfunction of other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
W34.19XA	Accidental malfunction from other specified firearms, initial encounter	DX	ICD-10-CM
W34.19XD	Accidental malfunction from other specified firearms, subsequent encounter	DX	ICD-10-CM
W39.XXXA	Discharge of firework, initial encounter	DX	ICD-10-CM
W39.XXXD	Discharge of firework, subsequent encounter	DX	ICD-10-CM
W40.0XXA	Explosion of blasting material, initial encounter	DX	ICD-10-CM
W40.0XXD	Explosion of blasting material, subsequent encounter	DX	ICD-10-CM
W40.1XXA	Explosion of explosive gases, initial encounter	DX	ICD-10-CM
W40.1XXD	Explosion of explosive gases, subsequent encounter	DX	ICD-10-CM
W40.8XXA	Explosion of other specified explosive materials, initial encounter	DX	ICD-10-CM
W40.8XXD	Explosion of other specified explosive materials, subsequent encounter	DX	ICD-10-CM
W40.9XXA	Explosion of unspecified explosive materials, initial encounter	DX	ICD-10-CM
W40.9XXD	Explosion of unspecified explosive materials, subsequent encounter	DX	ICD-10-CM
X72.XXXA	Intentional self-harm by handgun discharge, initial encounter	DX	ICD-10-CM
X72.XXXD	Intentional self-harm by handgun discharge, subsequent encounter	DX	ICD-10-CM
X73.0XXA	Intentional self-harm by shotgun discharge, initial encounter	DX	ICD-10-CM
X73.0XXD	Intentional self-harm by shotgun discharge, subsequent encounter	DX	ICD-10-CM
X73.1XXA	Intentional self-harm by hunting rifle discharge, initial encounter	DX	ICD-10-CM
X73.1XXD	Intentional self-harm by hunting rifle discharge, subsequent encounter	DX	ICD-10-CM
X73.2XXA	Intentional self-harm by machine gun discharge, initial encounter	DX	ICD-10-CM
X73.2XXD	Intentional self-harm by machine gun discharge, subsequent encounter	DX	ICD-10-CM
X73.8XXA	Intentional self-harm by other larger firearm discharge, initial encounter	DX	ICD-10-CM
X73.8XXD	Intentional self-harm by other larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X73.9XXA	Intentional self-harm by unspecified larger firearm discharge, initial encounter	DX	ICD-10-CM
X73.9XXD	Intentional self-harm by unspecified larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X74.01XA	Intentional self-harm by airgun, initial encounter	DX	ICD-10-CM
X74.01XD	Intentional self-harm by airgun, subsequent encounter	DX	ICD-10-CM
X74.02XA	Intentional self-harm by paintball gun, initial encounter	DX	ICD-10-CM
X74.02XD	Intentional self-harm by paintball gun, subsequent encounter	DX	ICD-10-CM
X74.09XA	Intentional self-harm by other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
X74.09XD	Intentional self-harm by other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
X74.8XXA	Intentional self-harm by other firearm discharge, initial encounter	DX	ICD-10-CM
X74.8XXD	Intentional self-harm by other firearm discharge, subsequent encounter	DX	ICD-10-CM
X74.9XXA	Intentional self-harm by unspecified firearm discharge, initial encounter	DX	ICD-10-CM
X74.9XXD	Intentional self-harm by unspecified firearm discharge, subsequent encounter	DX	ICD-10-CM
X75.XXXA	Intentional self-harm by explosive material, initial encounter	DX	ICD-10-CM
X75.XXXD	Intentional self-harm by explosive material, subsequent encounter	DX	ICD-10-CM
X93.XXXA	Assault by handgun discharge, initial encounter	DX	ICD-10-CM
X93.XXXD	Assault by handgun discharge, subsequent encounter	DX	ICD-10-CM
X94.0XXA	Assault by shotgun, initial encounter	DX	ICD-10-CM
X94.0XXD	Assault by shotgun, subsequent encounter	DX	ICD-10-CM
X94.1XXA	Assault by hunting rifle, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 467 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

this keques			
Code	Description	Code Type	Code Category
X94.1XXD	Assault by hunting rifle, subsequent encounter	DX	ICD-10-CM
X94.2XXA	Assault by machine gun, initial encounter	DX	ICD-10-CM
X94.2XXD	Assault by machine gun, subsequent encounter	DX	ICD-10-CM
X94.8XXA	Assault by other larger firearm discharge, initial encounter	DX	ICD-10-CM
X94.8XXD	Assault by other larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X94.9XXA	Assault by unspecified larger firearm discharge, initial encounter	DX	ICD-10-CM
X94.9XXD	Assault by unspecified larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X95.02XA	Assault by paintball gun discharge, initial encounter	DX	ICD-10-CM
X95.02XD	Assault by paintball gun discharge, subsequent encounter	DX	ICD-10-CM
X95.09XA	Assault by other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
X95.09XD	Assault by other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
X95.8XXA	Assault by other firearm discharge, initial encounter	DX	ICD-10-CM
X95.8XXD	Assault by other firearm discharge, subsequent encounter	DX	ICD-10-CM
X95.9XXA	Assault by unspecified firearm discharge, initial encounter	DX	ICD-10-CM
X95.9XXD	Assault by unspecified firearm discharge, subsequent encounter	DX	ICD-10-CM
X96.0XXA	Assault by antipersonnel bomb, initial encounter	DX	ICD-10-CM
X96.0XXD	Assault by antipersonnel bomb, subsequent encounter	DX	ICD-10-CM
X96.1XXA	Assault by gasoline bomb, initial encounter	DX	ICD-10-CM
X96.1XXD	Assault by gasoline bomb, subsequent encounter	DX	ICD-10-CM
X96.2XXA	Assault by letter bomb, initial encounter	DX	ICD-10-CM
X96.2XXD	Assault by letter bomb, subsequent encounter	DX	ICD-10-CM
X96.3XXA	Assault by fertilizer bomb, initial encounter	DX	ICD-10-CM
X96.3XXD	Assault by fertilizer bomb, subsequent encounter	DX	ICD-10-CM
X96.4XXA	Assault by pipe bomb, initial encounter	DX	ICD-10-CM
X96.4XXD	Assault by pipe bomb, subsequent encounter	DX	ICD-10-CM
X96.8XXA	Assault by other specified explosive, initial encounter	DX	ICD-10-CM
X96.8XXD	Assault by other specified explosive, subsequent encounter	DX	ICD-10-CM
X96.9XXA	Assault by unspecified explosive, initial encounter	DX	ICD-10-CM
X96.9XXD	Assault by unspecified explosive, subsequent encounter	DX	ICD-10-CM
Y04.0XXA	Assault by unarmed brawl or fight, initial encounter	DX	ICD-10-CM
Y04.0XXD	Assault by unarmed brawl or fight, subsequent encounter	DX	ICD-10-CM
Y04.2XXA	Assault by strike against or bumped into by another person, initial encounter	DX	ICD-10-CM
Y04.2XXD	Assault by strike against or bumped into by another person, subsequent encounter	DX	ICD-10-CM
Y04.8XXA	Assault by other bodily force, initial encounter	DX	ICD-10-CM
Y04.8XXD	Assault by other bodily force, subsequent encounter	DX	ICD-10-CM
Y22.XXXA	Handgun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y22.XXXD	Handgun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.0XXA	Shotgun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.0XXD	Shotgun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.1XXA	Hunting rifle discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.1XXD	Hunting rifle discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.2XXA	Military firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.2XXD	Military firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
	,,		

cder\_mpl2p\_wp047 Page 468 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
Y23.3XXA	Machine gun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.3XXD	Machine gun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.8XXA	Other larger firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.8XXD	Other larger firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.9XXA	Unspecified larger firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.9XXD	Unspecified larger firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y24.0XXA	Airgun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y24.0XXD	Airgun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y24.8XXA	Other firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y24.8XXD	Other firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y24.9XXA	Unspecified firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y24.9XXD	Unspecified firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y25.XXXA	Contact with explosive material, undetermined intent, initial encounter	DX	ICD-10-CM
Y25.XXXD	Contact with explosive material, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y35.001A	Legal intervention involving unspecified firearm discharge, law enforcement official injured, initial encounter	DX	ICD-10-CM
Y35.001D	Legal intervention involving unspecified firearm discharge, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.002A	Legal intervention involving unspecified firearm discharge, bystander injured, initial encounter	DX	ICD-10-CM
Y35.002D	Legal intervention involving unspecified firearm discharge, bystander injured, subsequent encounter	DX	ICD-10-CM
Y35.003A	Legal intervention involving unspecified firearm discharge, suspect injured, initial encounter	DX	ICD-10-CM
Y35.003D	Legal intervention involving unspecified firearm discharge, suspect injured, subsequent encounter	DX	ICD-10-CM
Y35.011A	Legal intervention involving injury by machine gun, law enforcement official injured, initial encounter	DX	ICD-10-CM
Y35.011D	Legal intervention involving injury by machine gun, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.012A	Legal intervention involving injury by machine gun, bystander injured, initial encounter	DX	ICD-10-CM
Y35.012D	Legal intervention involving injury by machine gun, bystander injured, subsequent encounter	DX	ICD-10-CM
Y35.013A	Legal intervention involving injury by machine gun, suspect injured, initial encounter	DX	ICD-10-CM
Y35.013D	Legal intervention involving injury by machine gun, suspect injured, subsequent encounter	DX	ICD-10-CM
Y35.021A	Legal intervention involving injury by handgun, law enforcement official injured, initial encounter	DX	ICD-10-CM
Y35.021D	Legal intervention involving injury by handgun, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.022A	Legal intervention involving injury by handgun, bystander injured, initial encounter	DX	ICD-10-CM
Y35.022D	Legal intervention involving injury by handgun, bystander injured, subsequent	DX	ICD-10-CM
Y35.023A	Legal intervention involving injury by handgun, suspect injured, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 469 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

this keques			
Code	Description	Code Type	Code Category
Y35.023D	Legal intervention involving injury by handgun, suspect injured, subsequent encounter	DX	ICD-10-CM
Y35.031A	Legal intervention involving injury by rifle pellet, law enforcement official injured, initial encounter	DX	ICD-10-CM
Y35.031D	Legal intervention involving injury by rifle pellet, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.032A	Legal intervention involving injury by rifle pellet, bystander injured, initial encounter	DX	ICD-10-CM
Y35.032D	Legal intervention involving injury by rifle pellet, bystander injured, subsequent encounter	DX	ICD-10-CM
Y35.033A	Legal intervention involving injury by rifle pellet, suspect injured, initial encounter	DX	ICD-10-CM
Y35.033D	Legal intervention involving injury by rifle pellet, suspect injured, subsequent encounter	DX	ICD-10-CM
Y35.041A	Legal intervention involving injury by rubber bullet, law enforcement official injured, initial encounter	DX	ICD-10-CM
Y35.041D	Legal intervention involving injury by rubber bullet, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.042A	Legal intervention involving injury by rubber bullet, bystander injured, initial encounter	DX	ICD-10-CM
Y35.042D	Legal intervention involving injury by rubber bullet, bystander injured, subsequent encounter	DX	ICD-10-CM
Y35.043A	Legal intervention involving injury by rubber bullet, suspect injured, initial encounter	DX	ICD-10-CM
Y35.043D	Legal intervention involving injury by rubber bullet, suspect injured, subsequent encounter	DX	ICD-10-CM
Y35.091A	Legal intervention involving other firearm discharge, law enforcement official injured, initial encounter	DX	ICD-10-CM
Y35.091D	Legal intervention involving other firearm discharge, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.092A	Legal intervention involving other firearm discharge, bystander injured, initial	DX	ICD-10-CM
Y35.092D	Legal intervention involving other firearm discharge, bystander injured, subsequent encounter	DX	ICD-10-CM
Y35.093A	Legal intervention involving other firearm discharge, suspect injured, initial encounter	DX	ICD-10-CM
Y35.093D	Legal intervention involving other firearm discharge, suspect injured, subsequent encounter	DX	ICD-10-CM
W17.4XXA	Fall from dock, initial encounter	DX	ICD-10-CM
W17.4XXD	Fall from dock, subsequent encounter	DX	ICD-10-CM
W32.0XXA	Accidental handgun discharge, initial encounter	DX	ICD-10-CM
W32.0XXD	Accidental handgun discharge, subsequent encounter	DX	ICD-10-CM
W32.1XXA	Accidental handgun malfunction, initial encounter	DX	ICD-10-CM
W32.1XXD	Accidental handgun malfunction, subsequent encounter	DX	ICD-10-CM
W33.00XA	Accidental discharge of unspecified larger firearm, initial encounter	DX	ICD-10-CM
W33.00XD	Accidental discharge of unspecified larger firearm, subsequent encounter	DX	ICD-10-CM
W33.01XA	Accidental discharge of shotgun, initial encounter	DX	ICD-10-CM
W33.01XD	Accidental discharge of shotgun, subsequent encounter	DX	ICD-10-CM
W33.02XA	Accidental discharge of hunting rifle, initial encounter	DX	ICD-10-CM
W33.02XD	Accidental discharge of hunting rifle, subsequent encounter	DX	ICD-10-CM
W33.03XA	Accidental discharge of machine gun, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 470 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

this Reques	L .		
Code	Description	Code Type	Code Category
W33.03XD	Accidental discharge of machine gun, subsequent encounter	DX	ICD-10-CM
W33.09XA	Accidental discharge of other larger firearm, initial encounter	DX	ICD-10-CM
W33.09XD	Accidental discharge of other larger firearm, subsequent encounter	DX	ICD-10-CM
W33.10XA	Accidental malfunction of unspecified larger firearm, initial encounter	DX	ICD-10-CM
W33.10XD	Accidental malfunction of unspecified larger firearm, subsequent encounter	DX	ICD-10-CM
W33.11XA	Accidental malfunction of shotgun, initial encounter	DX	ICD-10-CM
W33.11XD	Accidental malfunction of shotgun, subsequent encounter	DX	ICD-10-CM
W33.12XA	Accidental malfunction of hunting rifle, initial encounter	DX	ICD-10-CM
W33.12XD	Accidental malfunction of hunting rifle, subsequent encounter	DX	ICD-10-CM
W33.13XA	Accidental malfunction of machine gun, initial encounter	DX	ICD-10-CM
W33.13XD	Accidental malfunction of machine gun, subsequent encounter	DX	ICD-10-CM
W33.19XA	Accidental malfunction of other larger firearm, initial encounter	DX	ICD-10-CM
W33.19XD	Accidental malfunction of other larger firearm, subsequent encounter	DX	ICD-10-CM
W34.00XA	Accidental discharge from unspecified firearms or gun, initial encounter	DX	ICD-10-CM
W34.00XD	Accidental discharge from unspecified firearms or gun, subsequent encounter	DX	ICD-10-CM
W34.010A	Accidental discharge of airgun, initial encounter	DX	ICD-10-CM
W34.010D	Accidental discharge of airgun, subsequent encounter	DX	ICD-10-CM
W34.011A	Accidental discharge of paintball gun, initial encounter	DX	ICD-10-CM
W34.011D	Accidental discharge of paintball gun, subsequent encounter	DX	ICD-10-CM
W34.018A	Accidental discharge of other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
W34.018D	Accidental discharge of other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
W34.09XA	Accidental discharge from other specified firearms, initial encounter	DX	ICD-10-CM
W34.09XD	Accidental discharge from other specified firearms, subsequent encounter	DX	ICD-10-CM
W34.10XA	Accidental malfunction from unspecified firearms or gun, initial encounter	DX	ICD-10-CM
W34.10XD	Accidental malfunction from unspecified firearms or gun, subsequent encounter	DX	ICD-10-CM
W34.110A	Accidental malfunction of airgun, initial encounter	DX	ICD-10-CM
W34.110D	Accidental malfunction of airgun, subsequent encounter	DX	ICD-10-CM
W34.111A	Accidental malfunction of paintball gun, initial encounter	DX	ICD-10-CM
W34.111D	Accidental malfunction of paintball gun, subsequent encounter	DX	ICD-10-CM
W34.118A	Accidental malfunction of other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
W34.118D	Accidental malfunction of other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
W34.19XA	Accidental malfunction from other specified firearms, initial encounter	DX	ICD-10-CM
W34.19XD	Accidental malfunction from other specified firearms, subsequent encounter	DX	ICD-10-CM
W39.XXXA	Discharge of firework, initial encounter	DX	ICD-10-CM
W39.XXXD	Discharge of firework, subsequent encounter	DX	ICD-10-CM
W40.0XXA	Explosion of blasting material, initial encounter	DX	ICD-10-CM
W40.0XXD	Explosion of blasting material, subsequent encounter	DX	ICD-10-CM
W40.1XXA	Explosion of explosive gases, initial encounter	DX	ICD-10-CM
W40.1XXD	Explosion of explosive gases, subsequent encounter	DX	ICD-10-CM
W40.8XXA	Explosion of other specified explosive materials, initial encounter	DX	ICD-10-CM
W40.8XXD	Explosion of other specified explosive materials, subsequent encounter	DX	ICD-10-CM
W40.9XXA	Explosion of unspecified explosive materials, initial encounter	DX	ICD-10-CM
W40.9XXD	Explosion of unspecified explosive materials, subsequent encounter	DX	ICD-10-CM
	•		

cder\_mpl2p\_wp047 Page 471 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reques			
Code	Description	Code Type	Code Category
X72.XXXA	Intentional self-harm by handgun discharge, initial encounter	DX	ICD-10-CM
X72.XXXD	Intentional self-harm by handgun discharge, subsequent encounter	DX	ICD-10-CM
X73.0XXA	Intentional self-harm by shotgun discharge, initial encounter	DX	ICD-10-CM
X73.0XXD	Intentional self-harm by shotgun discharge, subsequent encounter	DX	ICD-10-CM
X73.1XXA	Intentional self-harm by hunting rifle discharge, initial encounter	DX	ICD-10-CM
X73.1XXD	Intentional self-harm by hunting rifle discharge, subsequent encounter	DX	ICD-10-CM
X73.2XXA	Intentional self-harm by machine gun discharge, initial encounter	DX	ICD-10-CM
X73.2XXD	Intentional self-harm by machine gun discharge, subsequent encounter	DX	ICD-10-CM
X73.8XXA	Intentional self-harm by other larger firearm discharge, initial encounter	DX	ICD-10-CM
X73.8XXD	Intentional self-harm by other larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X73.9XXA	Intentional self-harm by unspecified larger firearm discharge, initial encounter	DX	ICD-10-CM
X73.9XXD	Intentional self-harm by unspecified larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X74.01XA	Intentional self-harm by airgun, initial encounter	DX	ICD-10-CM
X74.01XD	Intentional self-harm by airgun, subsequent encounter	DX	ICD-10-CM
X74.02XA	Intentional self-harm by paintball gun, initial encounter	DX	ICD-10-CM
X74.02XD	Intentional self-harm by paintball gun, subsequent encounter	DX	ICD-10-CM
X74.09XA	Intentional self-harm by other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
X74.09XD	Intentional self-harm by other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
X74.8XXA	Intentional self-harm by other firearm discharge, initial encounter	DX	ICD-10-CM
X74.8XXD	Intentional self-harm by other firearm discharge, subsequent encounter	DX	ICD-10-CM
X74.9XXA	Intentional self-harm by unspecified firearm discharge, initial encounter	DX	ICD-10-CM
X74.9XXD	Intentional self-harm by unspecified firearm discharge, subsequent encounter	DX	ICD-10-CM
X75.XXXA	Intentional self-harm by explosive material, initial encounter	DX	ICD-10-CM
X75.XXXD	Intentional self-harm by explosive material, subsequent encounter	DX	ICD-10-CM
X93.XXXA	Assault by handgun discharge, initial encounter	DX	ICD-10-CM
X93.XXXD	Assault by handgun discharge, subsequent encounter	DX	ICD-10-CM
X94.0XXA	Assault by shotgun, initial encounter	DX	ICD-10-CM
X94.0XXD	Assault by shotgun, subsequent encounter	DX	ICD-10-CM
X94.1XXA	Assault by hunting rifle, initial encounter	DX	ICD-10-CM
X94.1XXD	Assault by hunting rifle, subsequent encounter	DX	ICD-10-CM
X94.2XXA	Assault by machine gun, initial encounter	DX	ICD-10-CM
X94.2XXD	Assault by machine gun, subsequent encounter	DX	ICD-10-CM
X94.8XXA	Assault by other larger firearm discharge, initial encounter	DX	ICD-10-CM
X94.8XXD	Assault by other larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X94.9XXA	Assault by unspecified larger firearm discharge, initial encounter	DX	ICD-10-CM
X94.9XXD	Assault by unspecified larger firearm discharge, subsequent encounter	DX	ICD-10-CM
X95.02XA	Assault by paintball gun discharge, initial encounter	DX	ICD-10-CM
X95.02XD	Assault by paintball gun discharge, subsequent encounter	DX	ICD-10-CM
X95.09XA	Assault by other gas, air or spring-operated gun, initial encounter	DX	ICD-10-CM
X95.09XD	Assault by other gas, air or spring-operated gun, subsequent encounter	DX	ICD-10-CM
X95.8XXA	Assault by other firearm discharge, initial encounter	DX	ICD-10-CM
X95.8XXD	Assault by other firearm discharge, subsequent encounter	DX	ICD-10-CM
X95.9XXA	Assault by unspecified firearm discharge, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 472 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills reque			
Code	Description	Code Type	Code Category
X95.9XXD	Assault by unspecified firearm discharge, subsequent encounter	DX	ICD-10-CM
X96.0XXA	Assault by antipersonnel bomb, initial encounter	DX	ICD-10-CM
X96.0XXD	Assault by antipersonnel bomb, subsequent encounter	DX	ICD-10-CM
X96.1XXA	Assault by gasoline bomb, initial encounter	DX	ICD-10-CM
X96.1XXD	Assault by gasoline bomb, subsequent encounter	DX	ICD-10-CM
X96.2XXA	Assault by letter bomb, initial encounter	DX	ICD-10-CM
X96.2XXD	Assault by letter bomb, subsequent encounter	DX	ICD-10-CM
X96.3XXA	Assault by fertilizer bomb, initial encounter	DX	ICD-10-CM
X96.3XXD	Assault by fertilizer bomb, subsequent encounter	DX	ICD-10-CM
X96.4XXA	Assault by pipe bomb, initial encounter	DX	ICD-10-CM
X96.4XXD	Assault by pipe bomb, subsequent encounter	DX	ICD-10-CM
X96.8XXA	Assault by other specified explosive, initial encounter	DX	ICD-10-CM
X96.8XXD	Assault by other specified explosive, subsequent encounter	DX	ICD-10-CM
X96.9XXA	Assault by unspecified explosive, initial encounter	DX	ICD-10-CM
X96.9XXD	Assault by unspecified explosive, subsequent encounter	DX	ICD-10-CM
Y04.0XXA	Assault by unarmed brawl or fight, initial encounter	DX	ICD-10-CM
Y04.0XXD	Assault by unarmed brawl or fight, subsequent encounter	DX	ICD-10-CM
Y04.2XXA	Assault by strike against or bumped into by another person, initial encounter	DX	ICD-10-CM
Y04.2XXD	Assault by strike against or bumped into by another person, subsequent encounter	DX	ICD-10-CM
Y04.8XXA	Assault by other bodily force, initial encounter	DX	ICD-10-CM
Y04.8XXD	Assault by other bodily force, subsequent encounter	DX	ICD-10-CM
Y22.XXXA	Handgun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y22.XXXD	Handgun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.0XXA	Shotgun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.0XXD	Shotgun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.1XXA	Hunting rifle discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.1XXD	Hunting rifle discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.2XXA	Military firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.2XXD	Military firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.3XXA	Machine gun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.3XXD	Machine gun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.8XXA	Other larger firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.8XXD	Other larger firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y23.9XXA	Unspecified larger firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y23.9XXD	Unspecified larger firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y24.0XXA	Airgun discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y24.0XXD	Airgun discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y24.8XXA	Other firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y24.8XXD	Other firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y24.9XXA	Unspecified firearm discharge, undetermined intent, initial encounter	DX	ICD-10-CM
Y24.9XXD	Unspecified firearm discharge, undetermined intent, subsequent encounter	DX	ICD-10-CM
Y25.XXXA	Contact with explosive material, undetermined intent, initial encounter	DX	ICD-10-CM
Y25.XXXD	Contact with explosive material, undetermined intent, subsequent encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 473 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

tills Reque			
Code	Description	Code Type	Code Category
Y35.001A	Legal intervention involving unspecified firearm discharge, law enforcement official	DX	ICD-10-CM
	injured, initial encounter		
Y35.001D	Legal intervention involving unspecified firearm discharge, law enforcement official	DX	ICD-10-CM
Y35.002A	injured, subsequent encounter  Legal intervention involving unspecified firearm discharge, bystander injured, initial	DX	ICD-10-CM
133.002A	encounter	DX	ICD-10-CIVI
Y35.002D	Legal intervention involving unspecified firearm discharge, bystander injured,	DX	ICD-10-CM
	subsequent encounter		
Y35.003A	Legal intervention involving unspecified firearm discharge, suspect injured, initial	DX	ICD-10-CM
	encounter		
Y35.003D	Legal intervention involving unspecified firearm discharge, suspect injured, subsequent	DX	ICD-10-CM
	encounter		
Y35.011A	Legal intervention involving injury by machine gun, law enforcement official injured,	DX	ICD-10-CM
Y35.011D	initial encounter	DX	ICD 10 CM
135.0110	Legal intervention involving injury by machine gun, law enforcement official injured, subsequent encounter	DX	ICD-10-CM
Y35.012A	Legal intervention involving injury by machine gun, bystander injured, initial encounter	DX	ICD-10-CM
Y35.012D	Legal intervention involving injury by machine gun, bystander injured, subsequent	DX	ICD-10-CM
	encounter		
Y35.013A	Legal intervention involving injury by machine gun, suspect injured, initial encounter	DX	ICD-10-CM
Y35.013D	Legal intervention involving injury by machine gun, suspect injured, subsequent	DX	ICD-10-CM
	encounter		
Y35.021A	Legal intervention involving injury by handgun, law enforcement official injured, initial	DX	ICD-10-CM
V25 0245	encounter	DV	100 40 CM
Y35.021D	Legal intervention involving injury by handgun, law enforcement official injured,	DX	ICD-10-CM
Y35.022A	subsequent encounter  Legal intervention involving injury by handgun, bystander injured, initial encounter	DX	ICD-10-CM
Y35.022D	Legal intervention involving injury by handgun, bystander injured, subsequent	DX	ICD-10-CM
Y35.023A	Legal intervention involving injury by handgun, suspect injured, initial encounter	DX	ICD-10-CM
Y35.023D	Legal intervention involving injury by handgun, suspect injured, subsequent encounter	DX	ICD-10-CM
Y35.031A	Legal intervention involving injury by rifle pellet, law enforcement official injured, initial	DX	ICD-10-CM
	encounter		
Y35.031D	Legal intervention involving injury by rifle pellet, law enforcement official injured,	DX	ICD-10-CM
	subsequent encounter		
Y35.032A	Legal intervention involving injury by rifle pellet, bystander injured, initial encounter	DX	ICD-10-CM
Y35.032D	Legal intervention involving injury by rifle pellet, bystander injured, subsequent	DX	ICD-10-CM
Y35.033A	encounter  Legal intervention involving injury by rifle pellet, suspect injured, initial encounter	DX	ICD-10-CM
Y35.033A	Legal intervention involving injury by rifle pellet, suspect injured, initial encounter		ICD-10-CM
Y35.041A	Legal intervention involving injury by rine penet, suspect injured, subsequent encounter Legal intervention involving injury by rubber bullet, law enforcement official injured,	DX	ICD-10-CM
•	initial encounter		
Y35.041D	Legal intervention involving injury by rubber bullet, law enforcement official injured,	DX	ICD-10-CM
	subsequent encounter		

cder\_mpl2p\_wp047 Page 474 of 702



Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, and Current Procedural Terminology, Fourth Edition (CPT-4), Category I Procedure Codes Used to Define Censoring Criteria and Outcomes in this Request

Code	Description	Code Type	Code Category
Y35.042A	Legal intervention involving injury by rubber bullet, bystander injured, initial encounter	DX	ICD-10-CM
Y35.042D	Legal intervention involving injury by rubber bullet, bystander injured, subsequent	DX	ICD-10-CM
	encounter		
Y35.043A	Legal intervention involving injury by rubber bullet, suspect injured, initial encounter	DX	ICD-10-CM
Y35.043D	Legal intervention involving injury by rubber bullet, suspect injured, subsequent	DX	ICD-10-CM
	encounter		
Y35.091A	Legal intervention involving other firearm discharge, law enforcement official injured,	DX	ICD-10-CM
	initial encounter		
Y35.091D	Legal intervention involving other firearm discharge, law enforcement official injured,	DX	ICD-10-CM
	subsequent encounter		
Y35.092A	Legal intervention involving other firearm discharge, bystander injured, initial	DX	ICD-10-CM
Y35.092D	Legal intervention involving other firearm discharge, bystander injured, subsequent	DX	ICD-10-CM
	encounter		
Y35.093A	Legal intervention involving other firearm discharge, suspect injured, initial encounter	DX	ICD-10-CM
Y35.093D	Legal intervention involving other firearm discharge, suspect injured, subsequent	DX	ICD-10-CM
	encounter		

cder\_mpl2p\_wp047 Page 475 of 702



Appendix D. List of Generic and Brand Names of Medical Products Used to Define Inclusion and Exclusion Criteria in this Request

Generic Name	Brand Name
	Anti-coagulants
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
dabigatran etexilate mesylate	Pradaxa
dabigatran etexilate mesylate	dabigatran etexilate
edoxaban tosylate	Savaysa
rivaroxaban	Xarelto
rivaroxaban	Xarelto DVT-PE Treat 30d Start
warfarin sodium	Coumadin
warfarin sodium	warfarin
warfarin sodium	Jantoven

cder\_mpl2p\_wp047 Page 476 of 702



,			Code
Code	Description	Code Type	Category
	Dialysis		
792.5	Cloudy (hemodialysis) (peritoneal) dialysis affluent	DX	ICD-9-CM
V45.1	Renal dialysis status	DX	ICD-9-CM
V45.11	Renal dialysis status	DX	ICD-9-CM
V45.12	Noncompliance with renal dialysis	DX	ICD-9-CM
V56.0	Encounter for extracorporeal dialysis	DX	ICD-9-CM
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	DX	ICD-9-CM
V56.2	Fitting and adjustment of peritoneal dialysis catheter	DX	ICD-9-CM
V56.3	Encounter for adequacy testing for dialysis	DX	ICD-9-CM
V56.31	Encounter for adequacy testing for hemodialysis	DX	ICD-9-CM
V56.32	Encounter for adequacy testing for peritoneal dialysis	DX	ICD-9-CM
V56.8	Encounter other dialysis	DX	ICD-9-CM
R88.0	Cloudy (hemodialysis) (peritoneal) dialysis effluent	DX	ICD-10-CM
Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter	DX	ICD-10-CM
Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter	DX	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	DX	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	DX	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	DX	ICD-10-CM
Z99.2	Dependence on renal dialysis	DX	ICD-10-CM
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	PX	CPT-4
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	PX	CPT-4
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator dilution method, hook-up; transcutaneous measurement and disconnection	PX	CPT-4
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	PX	CPT-4
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	PX	CPT-4
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other	PX	CPT-4
	continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional		
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial revision of dialysis	PX	CPT-4
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	PX	CPT-4

cder\_mpl2p\_wp047 Page 477 of 702



			Code
Code	Description	Code Type	Category
90952	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of	PX	CPT-4
	age to include monitoring for the adequacy of nutrition, assessment of growth and		
	development, and counseling of parents; with 2-3 face-to-face visits by a physician or other		
	qualified health care professional per month		
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of	PX	CPT-4
	age to include monitoring for the adequacy of nutrition, assessment of growth and		
	development, and counseling of parents; with 1 face-to-face visit by a physician or other		
	qualified health care professional per month		
90954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	PX	CPT-4
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified		
	health care professional per month		
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	PX	CPT-4
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health		
	care professional per month		
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	PX	CPT-4
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 1 face-to-face visit by a physician or other qualified health		
	care professional per month		
90957	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	PX	CPT-4
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified		
	health care professional per month		
90958	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	PX	CPT-4
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health		
	care professional per month		
90959	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	PX	CPT-4
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 1 face-to-face visit by a physician or other qualified health		
	care professional per month		
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	PX	CPT-4
	older; with 4 or more face-to-face visits by a physician or other qualified health care		
	professional per month		
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	PX	CPT-4
90962		PX	CPT-4
90963		PX	CPT-4
90962 90963	older; with 2-3 face-to-face visits by a physician or other qualified health care professional per End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 1 face-to-face visit by a physician or other qualified health care professional per End-stage renal disease (ESRD) related services for home dialysis per full month, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	P.	

cder\_mpl2p\_wp047 Page 478 of 702



End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2- PX CPT-4 11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 12-19 years of age and older 12-19 years of age and years of age and older 12-19 years of age and ye		rri-4), Category i Procedure Codes Osed to Define inclusion and Exclusion Criteria in this Reques		Code
11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 12-19 years of age and older 12-19 years of age and older 12-19 years of age and older 12-19 zers of age and older 13-20 years of age and older 14-20 years of age and older 15-20 years of age and older per day; for patients younger than 2 years of age 15-20 years of age and years of parents 12-19 years of age 15-20 years of age and older 15-20 years of	Code	Description	Code Type	Category
and development, and counseling of parents End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older 20067 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age 10068 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age 10069 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age 10070 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age 10070 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age 10070 Peritoneal Dialysis for End-stage Renal Disease (esrd), 10070 Peritoneal Dialysis for End-stage Renal Disease	90964		PX	CPT-4
End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 20 years of age and older End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-10 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 per doy; for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 per				
12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents 10966 End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 10967 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age 10968 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age 10969 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age 10969 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age 10970 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age 10970 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older 10971 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10972 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10973 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10974 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10984 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10985 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10986 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10988 Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On PX CPT-4 10988 Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On PX CPT-4 10999 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10999 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10999 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 10999 Peritoneal Dial				
and development, and counseling of parents End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older 20 years of age and older 20967 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age 20968 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age 20969 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 21-19 years of age 20969 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age 20970 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age 20970 End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older 20976 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20977 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20978 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20979 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20982 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20983 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20984 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20985 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20985 Peritoneal Dialysis For End-stage Renal Disease (esrd), 20986 Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On 2098 Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On 2098 Dialysis training, patient, including helper where applicable, any mode, completed course 20999 Peritoneal Dialysis Training And/or Counseling 20999 Peritoneal Dialysis Training And/or Counseling 20999 Peritoneal Dialysis Training An	90965		PX	CPT-4
20 years of age and older End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 20 years of age and older End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 20 years of age and older End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 20 years of age and older End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, pr day; days for End-stage Renal Disease (esrd), PX CPT-4 End-stage renal disease (ESRD) related services (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Entroneal Dialysis For End-stage Re				
End-stage renal disease (ESRD) related services for dialysis less than a full month of service, prd day; for patients younger than 2 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, prd day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, prd day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, prd day; for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 per day; for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Monthly Basis  30985 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Monthly Basis  30999 Dialysis training, patient, including helper where applicable, any mode, completed course PX CPT-4 primarily Responsible  30999 Peritoneal Dialysis Training And/or Counseling PX CPT-4 primarily Responsible  30991 Home Hemodialysis Training And/or Counseling PX CPT-4 primarily Responsible  30992 Peritoneal Dialysis Training And/or Counseling PX C	90966		PX	CPT-4
End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day, for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day, for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day, for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day, for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT	90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	PX	CPT-4
per day; for patients 2-11 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd) PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd) PX CPT-4 PERITOR PRITOR PRITO	90968		PΧ	CPT-4
End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Primarily Responsible PX CPT-4 Primarily Responsible PX CPT-4 Primarily Responsible PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), Related Services, Per Full Month PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd) Related Services, Per Full Month PX CPT-4 PROPPE End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day PX CPT-4 PROPPE End Stage Renal Disease (esrd) Related Services (less Than Full Mon	30300		17	Ciii
End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd), Peritoneal Dialysis For End-stage Renal Disease (esrd)	90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	PX	CPT-4
per day; for patients 20 years of age and older  Peritoneal Dialysis For End-stage Renal Disease (esrd),  Peritoneal Dialysis For End-stage Renal Disease (esrd),  Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20978 Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20989 Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20982 Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20983 Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20984 Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20985 Peritoneal Dialysis For End-stage Renal Disease (esrd),  PYX CPT-4  20988 Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On  PYX CPT-4  20989 Dialysis training, patient, including helper where applicable, any mode, completed course  PYX CPT-4  20991 Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician  PYX CPT-4  20992 Peritoneal Dialysis Training And/or Counseling  PYX CPT-4  20993 Dialysis training, patient, including helper where applicable, any mode, course not completed,  20994 Peritoneal Dialysis Training And/or Counseling  PYX CPT-4  20995 Peritoneal Dialysis Training And/or Counseling  PYX CPT-4  20996 Peritoneal Dialysis Training And/or Counseling  PYX CPT-4  20997 Peritoneal Dialysis Training And/or Counseling  PYX CPT-4  20999 Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)  PYX CPT-4  20999 Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)  PYX CPT-4  20999 Hemoperfusion (eg, with activated charcoal or resin)  PYX CPT-4  20999 End Stage Renal Disease (esrd) Related Services, Per Full Month  PYX CPT-4  20999 End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  PYX CPT-4  20999 Unlisted dialysis procedure, inpatient or outpatient  856 Transplant of kidney  PYX ICD-9-CN  856 Renal autotransplantation	00070		DV	CDT 4
Peritoneal Dialysis For End-stage Renal Disease (esrd), Peritoneal Dialysis Training And/or Counseling Dialysis training, patient, including helper where applicable, any mode, completed course Peritoneal Dialysis Training And/or Counseling Peritone	90970	•	PX	CP1-4
Peritoneal Dialysis For End-stage Renal Disease (esrd), Pritoneal Dialysis Training And/or Counseling Pritoneal Dialysis Training And/or Counseli	90976		PΧ	CPT-4
Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PYX CPT-4 Monthly Basis Pialysis training, patient, including helper where applicable, any mode, completed course PYX CPT-4 Peritoneal Dialysis Training And/or Counseling PYX CPT-4 Primarily Responsible PPX CPT-4 Peritoneal Dialysis Training And/or Counseling PYX CPT-4 Primarily Responsible PPX CPT-4 Poop99 Dialysis training, patient, including helper where applicable, any mode, course not completed, PPX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PPX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PPX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PPX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PPX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PPX CPT-4 Primarily Responsible PPX CPT-4 Primarily Responsible PPX CPT-4 PPT-4				
Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis In Hospital Or Other Facility (excluding Home Dialysis), On PX CPT-4 Peritoneal Dialysis Training And/or Counseling PX CPT-4 Primarily Responsible Peritoneal Dialysis Training And/or Counseling PX CPT-4 Primarily Responsible Peritoneal Dialysis Training And/or Counseling PX CPT-4 Peritoneal Dialysis Training And/or Counseling PX CPT-4 Peritoneal Dialysis Training And/or Counseling PX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4 Peritoneal Dialysis training And/or Counseling PX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4 Peritoneal Dialysis training And/or Counseling PX CPT-4 Pritoneal Dialysis training		, , , , , , , , , , , , , , , , , , , ,		
Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 PRICE				
Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis Training And/or Counseling PX CPT-4 Pritoneal Dialysis Tra				
Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis For End-stage Renal Disease (esrd), PX CPT-4 Peritoneal Dialysis In Hospital Or Other Facility (excluding Home Dialysis), On PX CPT-4 Peritoneal Dialysis training, patient, including helper where applicable, any mode, completed course PX CPT-4 PY CPT-4 P				
Peritoneal Dialysis For End-stage Renal Disease (esrd), Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On PX CPT-4 Monthly Basis Dialysis training, patient, including helper where applicable, any mode, completed course PX CPT-4 Dialysis training And/or Counseling PX CPT-4 Primarily Responsible Peritoneal Dialysis Training And/or Counseling PX CPT-4 Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4 Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4 Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4 Dialysis training session Dialysis training session Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly) Dialysis training session Dialysis training And/or Counseling Dialysis (capd), Home Or Out-patient (monthly) Dialysis CPT-4 Dialysis training And/or Counseling Dialysis (capd), Home Or Out-patient (monthly) Dialysis CPT-4 Dialysis training And/or Counseling Dialysis (capd), Home Or Out-patient (monthly) Dialysis CPT-4 Dialysis training And/or Counseling Dialysis (capd), Home Or Out-patient (monthly) Dialysis CPT-4 Dialysis training And/or Counseling Dialysis CPT-4 Dialysis Training And/or Counseling Dialysis CPT-4 Dialysis Training And/or Counseling Dialysis CPT-4 Dialysis Training And/or Counseling Dialysis CPT-4 Dia				
Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Monthly Basis  Dialysis training, patient, including helper where applicable, any mode, completed course PX CPT-4  Dialysis Training And/or Counseling PX CPT-4  Dialysis Training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training session  Dialysis Training And/or Counseling PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training session  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training session  Dialysis training And/or Counseling PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, co				
Dialysis training, patient, including helper where applicable, any mode, completed course  PX CPT-4  Dialysis Training And/or Counseling  PX CPT-4  Dialysis Training, patient, including helper where applicable, any mode, course not completed, px CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, px CPT-4  Dialysis training session  Dialysis training session  Dialysis training And/or Counseling  PX CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, px CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, px CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, px CPT-4  Dialysis training, patient, including helper where applicable, any mode, course not completed, px CPT-4  Dialysis training And/or Counseling  PX	90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On		
Hemodialysis Training And/or Counseling PX CPT-4 Primarily Responsible Peritoneal Dialysis Training And/or Counseling PX CPT-4 Primarily Responsible Peritoneal Dialysis Training And/or Counseling PX CPT-4 Primarily Responsible PY CPT-4 PY CPT-4 PRIMARILE RESPONSIBLE RESPONSIBL	90989	·	PX	CPT-4
Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician Primarily Responsible Peritoneal Dialysis Training And/or Counseling Py CPT-4 Primarily Responsible Py CPT-4 Possible Possible Possible Possible Py CPT-4 Py CPT-4 Possible Py CPT-4 Py CPT-4 Possible Py CPT-4 Py CPT-4 Possible Py CPT-4 Py C				
Peritoneal Dialysis Training And/or Counseling Dialysis training, patient, including helper where applicable, any mode, course not completed, px CPT-4 per training session Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly) End Stage Renal Disease (esrd) Related Services, Per Full Month Continuous Arteriovenous Hemofiltration (cavh) (per Day) PX CPT-4 PO996 Continuous Arteriovenous Hemofiltration (cavh) (per Day) PX CPT-4 PO997 Hemoperfusion (eg, with activated charcoal or resin) PX CPT-4 PO998 End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day PX CPT-4 PO999 Unlisted dialysis procedure, inpatient or outpatient PX CPT-4 Ridney replacement  Kidney replacement PX ICD-9-CN Renal autotransplantation PX ICD-9-CN	90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician		
Dialysis training, patient, including helper where applicable, any mode, course not completed, per training session  Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)  End Stage Renal Disease (esrd) Related Services, Per Full Month  COPT-4  COP	90992		PX	CPT-4
Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)  End Stage Renal Disease (esrd) Related Services, Per Full Month  Continuous Arteriovenous Hemofiltration (cavh) (per Day)  Hemoperfusion (eg, with activated charcoal or resin)  End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  PX  CPT-4  PO998  End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  Unlisted dialysis procedure, inpatient or outpatient  Kidney replacement  Transplant of kidney  Renal autotransplantation  PX  ICD-9-CN  ICD-9-CN	90993	Dialysis training, patient, including helper where applicable, any mode, course not completed,		
End Stage Renal Disease (esrd) Related Services, Per Full Month  PX CPT-4 Continuous Arteriovenous Hemofiltration (cavh) (per Day)  Hemoperfusion (eg, with activated charcoal or resin)  End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  Unlisted dialysis procedure, inpatient or outpatient  Kidney replacement  Transplant of kidney  Renal autotransplantation  PX CPT-4  Kidney replacement  PX ICD-9-CN  Renal autotransplantation  PX ICD-9-CN	90994		PΧ	CPT-4
Continuous Arteriovenous Hemofiltration (cavh) (per Day)  Hemoperfusion (eg, with activated charcoal or resin)  End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  Unlisted dialysis procedure, inpatient or outpatient  Kidney replacement  Transplant of kidney  Renal autotransplantation  PX CPT-4  Kidney replacement  PX ICD-9-CN  ICD-9-CN				
Hemoperfusion (eg, with activated charcoal or resin)  End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  Unlisted dialysis procedure, inpatient or outpatient  Kidney replacement  Transplant of kidney  Renal autotransplantation  PX CPT-4  Kidney replacement  PX ICD-9-CN  PX ICD-9-CN		-		
End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day  Unlisted dialysis procedure, inpatient or outpatient  Kidney replacement  Transplant of kidney  Renal autotransplantation  PX CPT-4  ROP-4  CPT-4  CPT-9-CN  CPT-4  CPT-9-CN  CPT-9-CN				
Unlisted dialysis procedure, inpatient or outpatient  Kidney replacement  Transplant of kidney  Renal autotransplantation  PX CPT-4  PX CPT-4  FX ICD-9-CM  PX ICD-9-CM		,		
Kidney replacement  Transplant of kidney  PX ICD-9-CM  Renal autotransplantation  PX ICD-9-CM	90999			
Transplant of kidney PX ICD-9-CN PX ICD-9-CN PX ICD-9-CN PX ICD-9-CN				
Renal autotransplantation PX ICD-9-CN	556		PX	ICD-9-CM
Other kidney transplantation PX ICD-9-CM	5561	Renal autotransplantation	PX	ICD-9-CM
	5569	Other kidney transplantation	PX	ICD-9-CM

cder\_mpl2p\_wp047 Page 479 of 702



,	7/		Code
Code	Description	Code Type	Category
99681	Complications of transplanted kidney	DX	ICD-9-CM
V420	Kidney replaced by transplant	DX	ICD-9-CM
T86.10	Unspecified complication of kidney transplant	DX	ICD-10-CM
T86.11	Kidney transplant rejection	DX	ICD-10-CM
T86.12	Kidney transplant failure	DX	ICD-10-CM
T86.13	Kidney transplant infection	DX	ICD-10-CM
T86.19	Other complication of kidney transplant	DX	ICD-10-CM
Z48.22	Encounter for aftercare following kidney transplant	DX	ICD-10-CM
Z94.0	Kidney transplant status	DX	ICD-10-CM
OTS00ZZ	Reposition Right Kidney, Open Approach	PX	ICD-10-PCS
OTS10ZZ	Reposition Left Kidney, Open Approach	PX	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	PX	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	PX	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	PX	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	PX	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	PX	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	PX	ICD-10-PCS
	Deep vein thrombosis		
4534	Acute venous embolism and thrombosis of deep vessels of lower extremity	DX	ICD-9-CM
45340	Acute venous embolism and thrombosis of unspecified deep vessels of lower extremity	DX	ICD-9-CM
45341	Acute venous embolism and thrombosis of deep vessels of proximal lower extremity	DX	ICD-9-CM
45342	Acute venous embolism and thrombosis of deep vessels of distal lower extremity	DX	ICD-9-CM
4511	Phlebitis and thrombophlebitis of deep veins of lower extremities	DX	ICD-9-CM
45111	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)	DX	ICD-9-CM
45119	Phlebitis and thrombophlebitis of deep veins of lower extremities, other	DX	ICD-9-CM
4512	Phlebitis and thrombophlebitis of lower extremities, unspecified	DX	ICD-9-CM
45181	Phlebitis and thrombophlebitis of iliac vein	DX	ICD-9-CM
45183	Phlebitis and thrombophlebitis of deep veins of upper extremities	DX	ICD-9-CM
45384	Phlebitis and thrombophlebitis of upper extremities, unspecified	DX	ICD-9-CM
180.10	Phlebitis and thrombophlebitis of unspecified femoral vein	DX	ICD-10-CM
180.11	Phlebitis and thrombophlebitis of right femoral vein	DX	ICD-10-CM
180.12	Phlebitis and thrombophlebitis of left femoral vein	DX	ICD-10-CM
180.13	Phlebitis and thrombophlebitis of femoral vein, bilateral	DX	ICD-10-CM
180.201	Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremity	DX	ICD-10-CM
180.202	Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremity	DX	ICD-10-CM
180.203	Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities, bilateral	DX	ICD-10-CM
180.209	Phlebitis and thrombophlebitis of unspecified deep vessels of unspecified lower extremity	DX	ICD-10-CM
180.211	Phlebitis and thrombophlebitis of right iliac vein	DX	ICD-10-CM
180.212	Phlebitis and thrombophlebitis of left iliac vein	DX	ICD-10-CM
180.213	Phlebitis and thrombophlebitis of iliac vein, bilateral	DX	ICD-10-CM
180.219	Phlebitis and thrombophlebitis of unspecified iliac vein	DX	ICD-10-CM
180.221	Phlebitis and thrombophlebitis of right popliteal vein	DX	ICD-10-CM
180.222	Phlebitis and thrombophlebitis of left popliteal vein	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 480 of 702



Edition (CP	T-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reque	<u>ا</u>	Code
Code	Description	Code Type	
180.223	Phlebitis and thrombophlebitis of popliteal vein, bilateral	DX	ICD-10-CM
180.229	Phlebitis and thrombophlebitis of unspecified popliteal vein	DX	ICD-10-CM
180.231	Phlebitis and thrombophlebitis of right tibial vein	DX	ICD-10-CM
180.232	Phlebitis and thrombophlebitis of left tibial vein	DX	ICD-10-CM
180.233	Phlebitis and thrombophlebitis of tibial vein, bilateral	DX	ICD-10-CM
180.239	Phlebitis and thrombophlebitis of unspecified tibial vein	DX	ICD-10-CM
180.291	Phlebitis and thrombophlebitis of other deep vessels of right lower extremity	DX	ICD-10-CM
180.292	Phlebitis and thrombophlebitis of other deep vessels of left lower extremity	DX	ICD-10-CM
180.293	Phlebitis and thrombophlebitis of other deep vessels of lower extremity, bilateral	DX	ICD-10-CM
180.299	Phlebitis and thrombophlebitis of other deep vessels of unspecified lower extremity	DX	ICD-10-CM
180.3	Phlebitis and thrombophlebitis of lower extremities, unspecified	DX	ICD-10-CM
180.8	Phlebitis and thrombophlebitis of other sites	DX	ICD-10-CM
182.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity	DX	ICD-10-CM
182.402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity	DX	ICD-10-CM
182.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral	DX	ICD-10-CM
182.409	Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity	DX	ICD-10-CM
182.411	Acute embolism and thrombosis of right femoral vein	DX	ICD-10-CM
182.412	Acute embolism and thrombosis of left femoral vein	DX	ICD-10-CM
182.413	Acute embolism and thrombosis of femoral vein, bilateral	DX	ICD-10-CM
182.419	Acute embolism and thrombosis of unspecified femoral vein	DX	ICD-10-CM
182.421	Acute embolism and thrombosis of right iliac vein	DX	ICD-10-CM
182.422	Acute embolism and thrombosis of left iliac vein	DX	ICD-10-CM
182.423	Acute embolism and thrombosis of iliac vein, bilateral	DX	ICD-10-CM
182.429	Acute embolism and thrombosis of unspecified iliac vein	DX	ICD-10-CM
182.431	Acute embolism and thrombosis of right popliteal vein	DX	ICD-10-CM
182.432	Acute embolism and thrombosis of left popliteal vein	DX	ICD-10-CM
182.433	Acute embolism and thrombosis of popliteal vein, bilateral	DX	ICD-10-CM
182.439	Acute embolism and thrombosis of unspecified popliteal vein	DX	ICD-10-CM
182.441	Acute embolism and thrombosis of right tibial vein	DX	ICD-10-CM
182.442	Acute embolism and thrombosis of left tibial vein	DX	ICD-10-CM
182.443	Acute embolism and thrombosis of tibial vein, bilateral	DX	ICD-10-CM
182.449	Acute embolism and thrombosis of unspecified tibial vein	DX	ICD-10-CM
182.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity	DX	ICD-10-CM
182.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity	DX	ICD-10-CM
182.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral	DX	ICD-10-CM
182.499	Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity	DX	ICD-10-CM
182.4Y1	Acute embolism and thrombosis of unspecified deep veins of right proximal lower extremity	DX	ICD-10-CM
182.4Y2	Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity	DX	ICD-10-CM
182.4Y3	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral	DX	ICD-10-CM
I82.4Y9	Acute embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity	DX	ICD-10-CM
I82.4Z1	Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 481 of 702



Luition (Cr	71-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reque	) i	Code
Code	Description	Code Type	
I82.4Z2	Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity	DX	ICD-10-CM
182.4Z3	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral	DX	ICD-10-CM
182.4Z9	Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower	DX	ICD-10-CM
	extremity		
I82.A11	Acute embolism and thrombosis of right axillary vein	DX	ICD-10-CM
I82.A12	Acute embolism and thrombosis of left axillary vein	DX	ICD-10-CM
I82.A13	Acute embolism and thrombosis of axillary vein, bilateral	DX	ICD-10-CM
I82.A19	Acute embolism and thrombosis of unspecified axillary vein	DX	ICD-10-CM
	Deep vein thrombosis		
4534	Acute venous embolism and thrombosis of deep vessels of lower extremity	DX	ICD-9-CM
45340	Acute venous embolism and thrombosis of unspecified deep vessels of lower extremity	DX	ICD-9-CM
45341	Acute venous embolism and thrombosis of deep vessels of proximal lower extremity	DX	ICD-9-CM
45342	Acute venous embolism and thrombosis of deep vessels of distal lower extremity	DX	ICD-9-CM
4511	Phlebitis and thrombophlebitis of deep veins of lower extremities	DX	ICD-9-CM
45111	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)	DX	ICD-9-CM
45119	Phlebitis and thrombophlebitis of deep veins of lower extremities, other	DX	ICD-9-CM
4512	Phlebitis and thrombophlebitis of lower extremities, unspecified	DX	ICD-9-CM
45181	Phlebitis and thrombophlebitis of iliac vein	DX	ICD-9-CM
45183	Phlebitis and thrombophlebitis of deep veins of upper extremities	DX	ICD-9-CM
45384	Phlebitis and thrombophlebitis of upper extremities, unspecified	DX	ICD-9-CM
180.10	Phlebitis and thrombophlebitis of unspecified femoral vein	DX	ICD-10-CM
180.11	Phlebitis and thrombophlebitis of right femoral vein	DX	ICD-10-CM
180.12	Phlebitis and thrombophlebitis of left femoral vein	DX	ICD-10-CM
180.13	Phlebitis and thrombophlebitis of femoral vein, bilateral	DX	ICD-10-CM
180.201	Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremity	DX	ICD-10-CM
180.202	Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremity	DX	ICD-10-CM
180.203	Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities, bilateral	DX	ICD-10-CM
180.209	Phlebitis and thrombophlebitis of unspecified deep vessels of unspecified lower extremity	DX	ICD-10-CM
180.211	Phlebitis and thrombophlebitis of right iliac vein	DX	ICD-10-CM
180.212	Phlebitis and thrombophlebitis of left iliac vein	DX	ICD-10-CM
180.213	Phlebitis and thrombophlebitis of iliac vein, bilateral	DX	ICD-10-CM
180.219	Phlebitis and thrombophlebitis of unspecified iliac vein	DX	ICD-10-CM
180.221	Phlebitis and thrombophlebitis of right popliteal vein	DX	ICD-10-CM
180.222	Phlebitis and thrombophlebitis of left popliteal vein	DX	ICD-10-CM
180.223	Phlebitis and thrombophlebitis of popliteal vein, bilateral	DX	ICD-10-CM
180.229	Phlebitis and thrombophlebitis of unspecified popliteal vein	DX	ICD-10-CM
180.231	Phlebitis and thrombophlebitis of right tibial vein	DX	ICD-10-CM
180.232	Phlebitis and thrombophlebitis of left tibial vein	DX	ICD-10-CM
180.233	Phlebitis and thrombophlebitis of tibial vein, bilateral	DX	ICD-10-CM
180.239	Phlebitis and thrombophlebitis of unspecified tibial vein	DX	ICD-10-CM
180.291	Phlebitis and thrombophlebitis of other deep vessels of right lower extremity	DX	ICD-10-CM
180.292	Phlebitis and thrombophlebitis of other deep vessels of left lower extremity	DX	ICD-10-CM
180.293	Phlebitis and thrombophlebitis of other deep vessels of lower extremity, bilateral	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 482 of 702



Edition (Ci	1-4), Category i Procedure Codes Osed to Define inclusion and exclusion Criteria in this Reque	<u> </u>	Code
Code	Description	Code Type	Category
180.299	Phlebitis and thrombophlebitis of other deep vessels of unspecified lower extremity	DX	ICD-10-CM
180.3	Phlebitis and thrombophlebitis of lower extremities, unspecified	DX	ICD-10-CM
180.8	Phlebitis and thrombophlebitis of other sites	DX	ICD-10-CM
182.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity	DX	ICD-10-CM
182.402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity	DX	ICD-10-CM
182.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral	DX	ICD-10-CM
182.409	Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity	DX	ICD-10-CM
182.411	Acute embolism and thrombosis of right femoral vein	DX	ICD-10-CM
182.412	Acute embolism and thrombosis of left femoral vein	DX	ICD-10-CM
182.413	Acute embolism and thrombosis of femoral vein, bilateral	DX	ICD-10-CM
182.419	Acute embolism and thrombosis of unspecified femoral vein	DX	ICD-10-CM
182.421	Acute embolism and thrombosis of right iliac vein	DX	ICD-10-CM
182.422	Acute embolism and thrombosis of left iliac vein	DX	ICD-10-CM
182.423	Acute embolism and thrombosis of iliac vein, bilateral	DX	ICD-10-CM
182.429	Acute embolism and thrombosis of unspecified iliac vein	DX	ICD-10-CM
182.431	Acute embolism and thrombosis of right popliteal vein	DX	ICD-10-CM
182.432	Acute embolism and thrombosis of left popliteal vein	DX	ICD-10-CM
182.433	Acute embolism and thrombosis of popliteal vein, bilateral	DX	ICD-10-CM
182.439	Acute embolism and thrombosis of unspecified popliteal vein	DX	ICD-10-CM
182.441	Acute embolism and thrombosis of right tibial vein	DX	ICD-10-CM
182.442	Acute embolism and thrombosis of left tibial vein	DX	ICD-10-CM
182.443	Acute embolism and thrombosis of tibial vein, bilateral	DX	ICD-10-CM
182.449	Acute embolism and thrombosis of unspecified tibial vein	DX	ICD-10-CM
182.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity	DX	ICD-10-CM
182.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity	DX	ICD-10-CM
182.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral	DX	ICD-10-CM
182.499	Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity	DX	ICD-10-CM
182.4Y1	Acute embolism and thrombosis of unspecified deep veins of right proximal lower extremity	DX	ICD-10-CM
182.4Y2	Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity	DX	ICD-10-CM
I82.4Y3	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral	DX	ICD-10-CM
I82.4Y9	Acute embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity	DX	ICD-10-CM
182.4Z1	Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity	DX	ICD-10-CM
182.4Z2	Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity	DX	ICD-10-CM
182.4Z3	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral	DX	ICD-10-CM
182.4Z9	Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity	DX	ICD-10-CM
I82.A11	Acute embolism and thrombosis of right axillary vein	DX	ICD-10-CM
I82.A12	Acute embolism and thrombosis of left axillary vein	DX	ICD-10-CM
I82.A13	Acute embolism and thrombosis of axillary vein, bilateral	DX	ICD-10-CM
I82.A19	Acute embolism and thrombosis of unspecified axillary vein	DX	ICD-10-CM
	Pulmonary embolism		

cder\_mpl2p\_wp047 Page 483 of 702



Luition (CF	1-4), Category i Procedure Codes Osed to Define inclusion and exclusion Criteria in this keques		Code
Code	Description	Code Type	Category
4151	Pulmonary embolism and infarction	DX	ICD-9-CM
41511	latrogenic pulmonary embolism and infarction	DX	ICD-9-CM
41512	Septic pulmonary embolism	DX	ICD-9-CM
41519	Other pulmonary embolism and infarction	DX	ICD-9-CM
126.01	Septic pulmonary embolism with acute cor pulmonale	DX	ICD-10-CM
126.09	Other pulmonary embolism with acute cor pulmonale	DX	ICD-10-CM
126.90	Septic pulmonary embolism without acute cor pulmonale	DX	ICD-10-CM
126.99	Other pulmonary embolism without acute cor pulmonale	DX	ICD-10-CM
T80.0XXA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter	DX	ICD-10-CM
T81.718A	Complication of other artery following a procedure, not elsewhere classified, initial encounter	DX	ICD-10-CM
T81.72XA	Complication of vein following a procedure, not elsewhere classified, initial encounter	DX	ICD-10-CM
T82.817A	Embolism due to cardiac prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
T82.818A	Embolism due to vascular prosthetic devices, implants and grafts, initial encounter	DX	ICD-10-CM
	Joint replacement		
V436	Joint replaced by other means	DX	ICD-9-CM
V4360	Unspecified joint replacement	DX	ICD-9-CM
V4361	Shoulder joint replacement	DX	ICD-9-CM
V4362	Elbow joint replacement	DX	ICD-9-CM
V4363	Wrist joint replacement	DX	ICD-9-CM
V4364	Hip joint replacement	DX	ICD-9-CM
V4365	Knee joint replacement	DX	ICD-9-CM
V4366	Ankle joint replacement	DX	ICD-9-CM
V4369	Other joint replacement	DX	ICD-9-CM
815	JOINT REPLACEMENT LOWER EXTREMITY	PX	ICD-9-CM
8151	TOTAL HIP REPLACEMENT	PX	ICD-9-CM
8152	PARTIAL HIP REPLACEMENT	PX	ICD-9-CM
8153	REVISION OF HIP REPLACEMENT NOS	PX	ICD-9-CM
8154	TOTAL KNEE REPLACEMENT	PX	ICD-9-CM
8155	REVISION OF KNEE REPLACEMENT NOS	PX	ICD-9-CM
8156	TOTAL ANKLE REPLACEMENT	PX	ICD-9-CM
8157	REPLACEMENT OF JOINT OF FOOT&TOE	PX	ICD-9-CM
8159	REV JOINT REPLCMT LOWER EXTREM NEC	PX	ICD-9-CM
818	ARTHROPLASTY&REPAIR SHOULDER&ELBOW	PX	ICD-9-CM
8180	OTHER TOTAL SHOULDER REPLACEMENT	PX	ICD-9-CM
8181	PARTIAL SHOULDER REPLACEMENT	PX	ICD-9-CM
8182	REPAIR RECURRENT DISLOC SHOULDER	PX	ICD-9-CM
8183	OTHER REPAIR OF SHOULDER	PX	ICD-9-CM
8184	TOTAL ELBOW REPLACEMENT	PX	ICD-9-CM
8185	OTHER REPAIR OF ELBOW	PX	ICD-9-CM
24363	REPLACE ELBOW JOINT	PX	CPT-4
27130	TOTAL HIP ARTHROPLASTY	PX	CPT-4
27132	TOTAL HIP ARTHROPLASTY	PX	CPT-4
27134	REVISE HIP JOINT REPLACEMENT	PX	CPT-4

cder\_mpl2p\_wp047 Page 484 of 702



Luition (Cr	1-4), Category i Procedure Codes Osed to Define inclusion and exclusion Criteria in this Reque	<u> </u>	Code
Code	Description	Code Type	Category
27137	REVISE HIP JOINT REPLACEMENT	PX	CPT-4
27138	REVISE HIP JOINT REPLACEMENT	PX	CPT-4
27447	TOTAL KNEE ARTHROPLASTY	PX	CPT-4
Z96.60	Presence of unspecified orthopedic joint implant	DX	ICD-10-CM
Z96.611	Presence of right artificial shoulder joint	DX	ICD-10-CM
Z96.612	Presence of left artificial shoulder joint	DX	ICD-10-CM
Z96.619	Presence of unspecified artificial shoulder joint	DX	ICD-10-CM
Z96.621	Presence of right artificial elbow joint	DX	ICD-10-CM
Z96.622	Presence of left artificial elbow joint	DX	ICD-10-CM
Z96.629	Presence of unspecified artificial elbow joint	DX	ICD-10-CM
Z96.631	Presence of right artificial wrist joint	DX	ICD-10-CM
Z96.632	Presence of left artificial wrist joint	DX	ICD-10-CM
Z96.639	Presence of unspecified artificial wrist joint	DX	ICD-10-CM
Z96.641	Presence of right artificial hip joint	DX	ICD-10-CM
Z96.642	Presence of left artificial hip joint	DX	ICD-10-CM
Z96.643	Presence of artificial hip joint, bilateral	DX	ICD-10-CM
Z96.649	Presence of unspecified artificial hip joint	DX	ICD-10-CM
Z96.651	Presence of right artificial knee joint	DX	ICD-10-CM
Z96.652	Presence of left artificial knee joint	DX	ICD-10-CM
Z96.653	Presence of artificial knee joint, bilateral	DX	ICD-10-CM
Z96.659	Presence of unspecified artificial knee joint	DX	ICD-10-CM
Z96.661	Presence of right artificial ankle joint	DX	ICD-10-CM
Z96.662	Presence of left artificial ankle joint	DX	ICD-10-CM
Z96.669	Presence of unspecified artificial ankle joint	DX	ICD-10-CM
Z96.691	Finger-joint replacement of right hand	DX	ICD-10-CM
Z96.692	Finger-joint replacement of left hand	DX	ICD-10-CM
Z96.693	Finger-joint replacement, bilateral	DX	ICD-10-CM
Z96.698	Presence of other orthopedic joint implants	DX	ICD-10-CM
Z96.7	Presence of other bone and tendon implants	DX	ICD-10-CM
ORQE0ZZ	Repair Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
ORQE3ZZ	Repair Right Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
ORQE4ZZ	Repair Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQEXZZ	Repair Right Sternoclavicular Joint, External Approach	PX	ICD-10-PCS
ORQF0ZZ	Repair Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
ORQF3ZZ	Repair Left Sternoclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
ORQF4ZZ	Repair Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQFXZZ	Repair Left Sternoclavicular Joint, External Approach	PX	ICD-10-PCS
ORQG0ZZ	Repair Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
ORQG3ZZ	Repair Right Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS
ORQG4ZZ	Repair Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQGXZZ	Repair Right Acromioclavicular Joint, External Approach	PX	ICD-10-PCS
0RQH0ZZ	Repair Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
0RQH3ZZ	Repair Left Acromioclavicular Joint, Percutaneous Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 485 of 702



Edition (CP	1-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques	) L	Code
Code	Description	Code Type	
0RQH4ZZ	Repair Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQHXZZ	Repair Left Acromioclavicular Joint, External Approach	PX	ICD-10-PCS
0RQJ0ZZ	Repair Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
ORQJ3ZZ	Repair Right Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQJ4ZZ	Repair Right Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQJXZZ	Repair Right Shoulder Joint, External Approach	PX	ICD-10-PCS
ORQK0ZZ	Repair Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
ORQK3ZZ	Repair Left Shoulder Joint, Percutaneous Approach	PX	ICD-10-PCS
ORQK4ZZ	Repair Left Shoulder Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQKXZZ	Repair Left Shoulder Joint, External Approach	PX	ICD-10-PCS
<b>ORQLOZZ</b>	Repair Right Elbow Joint, Open Approach	PX	ICD-10-PCS
ORQL3ZZ	Repair Right Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
ORQL4ZZ	Repair Right Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQLXZZ	Repair Right Elbow Joint, External Approach	PX	ICD-10-PCS
0RQM0ZZ	Repair Left Elbow Joint, Open Approach	PX	ICD-10-PCS
0RQM3ZZ	Repair Left Elbow Joint, Percutaneous Approach	PX	ICD-10-PCS
0RQM4ZZ	Repair Left Elbow Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORQMXZZ	Repair Left Elbow Joint, External Approach	PX	ICD-10-PCS
ORRE07Z	Replacement of Right Sternoclavicular Joint with Autologous Tissue Substitute, Open	PX	ICD-10-PCS
ORREOJZ	Replacement of Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORREOKZ	Replacement of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRF07Z	Replacement of Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRFOJZ	Replacement of Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORRFOKZ	Replacement of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RRG07Z	Replacement of Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRGOJZ	Replacement of Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RRG0KZ	Replacement of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRH07Z	Replacement of Left Acromioclavicular Joint with Autologous Tissue Substitute, Open	PX	ICD-10-PCS
ORRHOJZ	Replacement of Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORRHOKZ	Replacement of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRJ07Z	Replacement of Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRJOJ6	Replacement of Right Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	PX	ICD-10-PCS
ORRJOJ7	Replacement of Right Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	PX	ICD-10-PCS
ORRJOJZ	Replacement of Right Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORRJOKZ	Replacement of Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRKO7Z	Replacement of Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 486 of 702



Euition (CP	1-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques		Code
Code	Description	Code Type	
ORRKOJ6	Replacement of Left Shoulder Joint with Synthetic Substitute, Humeral Surface, Open	PX	ICD-10-PCS
ORRKOJ7	Replacement of Left Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open	PX	ICD-10-PCS
ORRKOJZ	Replacement of Left Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORRKOKZ	Replacement of Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRL07Z	Replacement of Right Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRLOJZ	Replacement of Right Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORRLOKZ	Replacement of Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRM07Z	Replacement of Left Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORRMOJZ	Replacement of Left Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORRMOKZ	Replacement of Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORSE04Z	Reposition Right Sternoclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
ORSE0ZZ	Reposition Right Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
ORSF04Z	Reposition Left Sternoclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
ORSF0ZZ	Reposition Left Sternoclavicular Joint, Open Approach	PX	ICD-10-PCS
ORSG04Z	Reposition Right Acromioclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
ORSG0ZZ	Reposition Right Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
ORSH04Z	Reposition Left Acromioclavicular Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
ORSH0ZZ	Reposition Left Acromioclavicular Joint, Open Approach	PX	ICD-10-PCS
ORSJ04Z	Reposition Right Shoulder Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
ORSJ0ZZ	Reposition Right Shoulder Joint, Open Approach	PX	ICD-10-PCS
ORSK04Z	Reposition Left Shoulder Joint with Internal Fixation Device, Open Approach	PX	ICD-10-PCS
ORSKOZZ	Reposition Left Shoulder Joint, Open Approach	PX	ICD-10-PCS
ORUE07Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORUEOJZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORUEOKZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open	PX	ICD-10-PCS
ORUE37Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
ORUE3JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
ORUE3KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Approach		
ORUE47Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUE4JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUE4KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUF07Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORUFOJZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORUFOKZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORUF37Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Approach		
ORUF3JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 487 of 702



, -	1-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques		Code
Code	Description	Code Type	Category
ORUF3KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Approach		
ORUF47Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach		
ORUF4JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUF4KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUG07Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORUG0JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0RUG0KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUG37Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUG3JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUG3KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUG47Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
00116417	Endoscopic Approach	. DV	ICD 10 DCC
0RUG4JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach		ICD-10-PCS
0RUG4KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUH07Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
ORUHOJZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
ORUHOKZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0RUH37Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
ORUH3JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
0RUH3KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach		ICD-10-PCS
0RUH47Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
ORUH4JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
ORUH4KZ	Approach Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach Supplement Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	DV	ורח-10 מרני
ORUJO7Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Open Approach Supplement Right Shoulder Joint with Synthetic Substitute, Open Approach	PX PX	ICD-10-PCS
ORUJOJZ ORUJOKZ	Supplement Right Shoulder Joint with Synthetic Substitute, Open Approach Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach		ICD-10-PCS
ORUJOKZ ORUJ37Z	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX PX	ICD-10-PCS
	Supplement Right Shoulder Joint with Autologous Fissue Substitute, Percutaneous Approach	PX PX	ICD-10-PCS
ORUJ3JZ	Supplement right Shoulder Joint with Synthetic Substitute, Percutaneous Approach	۲۸	ICD-10-5C2

cder\_mpl2p\_wp047 Page 488 of 702



<u> </u>	T-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques		Code
Code	Description	Code Type	Category
)RUJ3KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Approach		
RUJ47Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
RUJ4JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
RUJ4KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach		
RUK07Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
RUKOJZ	Supplement Left Shoulder Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
RUK0KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
RUK37Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUK3JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUK3KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
RUK47Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
RUK4JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
RUK4KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach	51/	100 10 000
RUL07Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
RULOJZ	Supplement Right Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
RULOKZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
RUL37Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUL3JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUL3KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUL47Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
RUL4JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
RUL4KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
NOLTRE	Endoscopic Approach	17	100 10 1 05
RUM07Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
RUM0JZ	Supplement Left Elbow Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
RUM0KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
RUM37Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUM3JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUM3KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
RUM47Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
RUM4JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
RUM4KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
SR9019	Replacement of Right Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
SR901A	Replacement of Right Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 489 of 702



			Code
Code	Description	Code Type	Category
0SR901Z	Replacement of Right Hip Joint with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR9029	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSR902A	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSR902Z	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR9039	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSR903A	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SR903Z	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SR9049	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSR904A	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSR904Z	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSR907Z	Replacement of Right Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
SR90J9	Replacement of Right Hip Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
SR90JA	Replacement of Right Hip Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
SR90JZ	Replacement of Right Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
SR90KZ	Replacement of Right Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
SRA009	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
SRA00A	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRA00Z	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
SRA019	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRA01A	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRA01Z	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
)SRA039	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRA03A	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRA03Z	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRA07Z	Replacement of Right Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 490 of 702



Luition (Cr	71-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques	, <u> </u>	Code
Code	Description	Code Type	
OSRAOJ9	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented,	PX	ICD-10-PCS
	Open Approach		
0SRA0JA	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented,	PX	ICD-10-PCS
	Open Approach		
0SRA0JZ	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRA0KZ	Replacement of Right Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRB019	Replacement of Left Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRB01A	Replacement of Left Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRB01Z	Replacement of Left Hip Joint with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRB029	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented,	PX	ICD-10-PCS
	Open Approach		
OSRB02A	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented,	PX	ICD-10-PCS
000000	Open Approach	<b>5</b> 1/	100 10 000
OSRB02Z	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Open	PX	ICD-10-PCS
OSRB039	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRB03A	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open	PX	ICD-10-PCS
OSRB03Z	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRB049	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRB04A	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute,	PX	ICD-10-PCS
	Uncemented, Open Approach		
OSRB04Z	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open	PX	ICD-10-PCS
0000077	Approach	DV	100 40 000
OSRBO7Z	Replacement of Left Hip Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRBOJ9	Replacement of Left Hip Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRBOJA	Replacement of Left Hip Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRBOJZ	Replacement of Left Hip Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRBOKZ	Replacement of Left Hip Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRC07Z	Replacement of Right Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRCOJ9	Replacement of Right Knee Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRCOJA	Replacement of Right Knee Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRCOJZ	Replacement of Right Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRCOKZ	Replacement of Right Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRCOL9	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRCOLA	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRCOLZ	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRDO7Z	Replacement of Left Knee Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRDOJ9	Replacement of Left Knee Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRDOJA	Replacement of Left Knee Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRDOJZ	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
33	neplecement of zero mice some man symmetre odobitede, Open Approach	1.7	.00 10 1 00

cder\_mpl2p\_wp047 Page 491 of 702



Luition (Cr	1-4), Category i Procedure Codes Osed to Define inclusion and Exclusion Criteria in this Reques	, c	Code
Code	Description	Code Type	Category
0SRD0KZ	Replacement of Left Knee Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRDOL9	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRD0LA	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRD0LZ	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRE009	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSREOOA	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRE00Z	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRE019	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRE01A	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRE01Z	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRE039	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRE03A	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRE03Z	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRE07Z	Replacement of Left Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSREOJ9	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSREOJA	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSREOJZ	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSREOKZ	Replacement of Left Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRF07Z	Replacement of Right Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRFOJ9	Replacement of Right Ankle Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRF0JA	Replacement of Right Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRF0JZ	Replacement of Right Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRFOKZ	Replacement of Right Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRG07Z	Replacement of Left Ankle Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRG0J9	Replacement of Left Ankle Joint with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRG0JA	Replacement of Left Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRG0JZ	Replacement of Left Ankle Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRG0KZ	Replacement of Left Ankle Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 492 of 702



Zaition (Ci	1 4), category 11 roccaure codes osca to before inclusion and Exclusion criteria in this reques		Code
Code	Description	Code Type	Category
OSRH07Z	Replacement of Right Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRHOJZ	Replacement of Right Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRHOKZ	Replacement of Right Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRJ07Z	Replacement of Left Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRJOJZ	Replacement of Left Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRJOKZ	Replacement of Left Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRK07Z	Replacement of Right Metatarsal-Tarsal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRKOJZ	Replacement of Right Metatarsal-Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRKOKZ	Replacement of Right Metatarsal-Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRL07Z	Replacement of Left Metatarsal-Tarsal Joint with Autologous Tissue Substitute, Open	PX	ICD-10-PCS
OSRLOJZ	Replacement of Left Metatarsal-Tarsal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRLOKZ	Replacement of Left Metatarsal-Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRM07Z	Replacement of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRMOJZ	Replacement of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRMOKZ	Replacement of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRN07Z	Replacement of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRNOJZ	Replacement of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRN0KZ	Replacement of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRP07Z	Replacement of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRPOJZ	Replacement of Right Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRPOKZ	Replacement of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRQ07Z	Replacement of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRQ0JZ	Replacement of Left Toe Phalangeal Joint with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRQ0KZ	Replacement of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRR019	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRR01A	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRR01Z	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRRO39	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRRO3A	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 493 of 702



	1-4), Category i Procedure Codes Osed to Define inclusion and exclusion Criteria in this Reques		Code
Code	Description	Code Type	Category
0SRR03Z	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRR07Z	Replacement of Right Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRROJ9	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRROJA	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRROJZ	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRR0KZ	Replacement of Right Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRS019	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRSO1A	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRSO1Z	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRS039	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRS03A	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRS03Z	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	PX	ICD-10-PCS
OSRSO7Z	Replacement of Left Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRSOJ9	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRSOJA	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRS0JZ	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRS0KZ	Replacement of Left Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRTO7Z	Replacement of Right Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRTOJ9	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRTOJA	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRTOJZ	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRT0KZ	Replacement of Right Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRU07Z	Replacement of Left Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 494 of 702



			Code
Code	Description	Code Type	Category
OSRUOJ9	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
OSRUOJA	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
OSRUOJZ	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRU0KZ	Replacement of Left Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRV07Z	Replacement of Right Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRVOJ9	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRV0JA	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRV0JZ	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRV0KZ	Replacement of Right Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
0SRW07Z	Replacement of Left Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSRW0J9	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	PX	ICD-10-PCS
0SRW0JA	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	PX	ICD-10-PCS
0SRW0JZ	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
0SRW0KZ	Replacement of Left Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
OSW90JZ	Revision of Synthetic Substitute in Right Hip Joint, Open Approach	PX	ICD-10-PCS
0SW93JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
0SW94JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWA0JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Open Approach	PX	ICD-10-PCS
0SWA3JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous	PX	ICD-10-PCS
0SWA4JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
OSWB0JZ	Revision of Synthetic Substitute in Left Hip Joint, Open Approach	PX	ICD-10-PCS
OSWB3JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Approach	PX	ICD-10-PCS
OSWB4JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC0JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Open Approach	PX	ICD-10-PCS
0SWC0JZ	Revision of Synthetic Substitute in Right Knee Joint, Open Approach	PX	ICD-10-PCS
OSMC31C	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWC3JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWC4JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWC4JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD0JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 495 of 702



Edition (CP	T-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques	<u> </u>	Code
Code	Description	Code Type	
0SWD0JZ	Revision of Synthetic Substitute in Left Knee Joint, Open Approach	PX	ICD-10-PCS
0SWD3JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWD3JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWD4JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWD4JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
OSWE0JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Open Approach	PX	ICD-10-PCS
0SWE3JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWE4JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWF0JZ	Revision of Synthetic Substitute in Right Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWF3JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWF4JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWG0JZ	Revision of Synthetic Substitute in Left Ankle Joint, Open Approach	PX	ICD-10-PCS
0SWG3JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWG4JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWH0JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWH3JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWH4JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWJ0JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWJ3JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWJ4JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWK0JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWK3JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
OSWK4JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWL0JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Open Approach	PX	ICD-10-PCS
0SWL3JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWL4JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWM0JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWM3JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWM4JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWN0JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWN3JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWN4JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWP0JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS
0SWP3JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
OSWP4JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWQ0JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Open Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 496 of 702



			Code
Code	Description	Code Type	Category
0SWQ3JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Approach	PX	ICD-10-PCS
0SWQ4JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Endoscopic	PX	ICD-10-PCS
OSWROJZ	Approach Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
OSWR3JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
OSWR4JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWS0JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
OSWS3JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
OSWS4JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWT0JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
OSWT3JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
OSWT4JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWU0JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Open Approach	PX	ICD-10-PCS
0SWU3JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWU4JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
0SWV0JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Open Approach	PX	ICD-10-PCS
0SWV3JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWV4JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 497 of 702



	1-4), Category i Procedure Codes osed to Define inclusion and exclusion Criteria in this Reque		Code
Code	Description	Code Type	Category
0SWW0JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Open Approach	PX	ICD-10-PCS
0SWW3JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Approach	PX	ICD-10-PCS
0SWW4JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
204.0	Mitral valve disease	DV	ICD O CM
394.0 394.1	Mitral stenosis Rheumatic mitral insufficiency	DX DX	ICD-9-CM
394.1	·	DX	ICD-9-CM ICD-9-CM
396.0	Mitral stenosis with insufficiency Mitral valve stenosis and aortic valve stenosis	DX	ICD-9-CM
396.0	Mitral valve stenosis and aortic valve insufficiency	DX	ICD-9-CM
396.2	Mitral valve steriosis and aortic valve insufficiency  Mitral valve insufficiency and aortic valve steriosis	DX	ICD-9-CM
396.3	Mitral valve insufficiency and aortic valve insufficiency	DX	ICD-9-CM
746.5	Congenital mitral stenosis	DX	ICD-9-CM
746.6	Congenital mitral insufficiency	DX	ICD-9-CM
105.0	Rheumatic mitral stenosis	DX	ICD-9-CIVI
105.0	Rheumatic mitral insufficiency	DX	ICD-10-CM
105.2	Rheumatic mitral stenosis with insufficiency	DX	ICD-10-CM
108.0	Rheumatic disorders of both mitral and aortic valves	DX	ICD-10-CM
108.3	Combined rheumatic disorders of mitral, aortic and tricuspid valves	DX	ICD-10-CM
134.2	Nonrheumatic mitral stenosis	DX	ICD-10-CM
Q23.2	Congenital mitral stenosis	DX	ICD-10-CM
Q23.3	Congenital mitral insufficiency	DX	ICD-10-CM
027G04Z	Dilation of Mitral Valve with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-PCS
027G0DZ	Dilation of Mitral Valve with Intraluminal Device, Open Approach	PX	ICD-10-PCS
027G0ZZ	Dilation of Mitral Valve, Open Approach	PX	ICD-10-PCS
02NG0ZZ	Release Mitral Valve, Open Approach	PX	ICD-10-PCS
02QG0ZZ	Repair Mitral Valve, Open Approach	PX	ICD-10-PCS
02VG0ZZ	Restriction of Mitral Valve, Open Approach	PX	ICD-10-PCS
	Valve replacement		
V422	Heart valve replaced by transplant	DX	ICD-9-CM
V433	Heart valve replaced by other means	DX	ICD-9-CM
352	OPEN & OTHR REPLACEMENT HEART VALVE	PX	ICD-9-CM
3520	OPEN & OTHER REPL UNS HEART VALVE	PX	ICD-9-CM
3521	OPEN OTH REPL AORTIC VALVE TISS GFT	PX	ICD-9-CM
3522	OPEN & OTHR REPLACEMNT AORTIC VALVE	PX	ICD-9-CM
3523	OPN OTH REPL MITRL VALVE TISS GRAFT	PX	ICD-9-CM
3524	OPEN & OTHER REPLCEMNT MITRAL VALVE	PX	ICD-9-CM
3525	OPEN OTH REPL PULM VALVE TISS GRAFT	PX	ICD-9-CM
3526	OPEN & OTHER REPL PULMONARY VALVE	PX	ICD-9-CM
3527	OPEN & OTH REPL TV W/TISSUE GRAFT	PX	ICD-9-CM
3528	OPEN & OTHER REPL TRICUSPD VALVE	PX	ICD-9-CM
33405	REPLACEMENT OF AORTIC VALVE	PX	CPT-4
33406	REPLACEMENT OF AORTIC VALVE	PX	CPT-4

cder\_mpl2p\_wp047 Page 498 of 702



Luition (CP	1-4), Category I Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Reques		Code
Code	Description	Code Type	
33410	REPLACEMENT OF AORTIC VALVE	PX	CPT-4
33411	REPLACEMENT OF AORTIC VALVE	PX	CPT-4
33412	REPLACEMENT OF AORTIC VALVE	PX	CPT-4
33413	REPLACEMENT OF AORTIC VALVE	PX	CPT-4
33430	REPLACEMENT OF MITRAL VALVE	PX	CPT-4
33465	REPLACE TRICUSPID VALVE	PX	CPT-4
33475	REPLACEMENT PULMONARY VALVE	PX	CPT-4
33496	REPAIR PROSTH VALVE CLOT	PX	CPT-4
Z95.2	Presence of prosthetic heart valve	DX	ICD-10-CM
Z95.3	Presence of xenogenic heart valve	DX	ICD-10-CM
Z95.4	Presence of other heart-valve replacement	DX	ICD-10-CM
02RF07Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RF08Z	Replacement of Aortic Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RF0JZ	Replacement of Aortic Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RF0KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RF47Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
02RF48Z	Replacement of Aortic Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF4JZ	Replacement of Aortic Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RF4KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
02RG07Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RG08Z	Replacement of Mitral Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RG0JZ	Replacement of Mitral Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RG0KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RG37Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RG38Z	Replacement of Mitral Valve with Zooplastic Tissue, Percutaneous Approach	PX	ICD-10-PCS
02RG3JZ	Replacement of Mitral Valve with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RG3KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Approach	PX	ICD-10-PCS
02RG47Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
02RG48Z	Replacement of Mitral Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RG4JZ	Replacement of Mitral Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RG4KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
02RH07Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RH08Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RH0JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RH0KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RH47Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach		
02RH48Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS

cder\_mpl2p\_wp047 Page 499 of 702



	The sate of the sa		Code
Code	Description	Code Type	Category
02RH4JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
	Approach		
02RH4KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach		
02RJ07Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RJ08Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Open Approach	PX	ICD-10-PCS
02RJ0JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Open Approach	PX	ICD-10-PCS
02RJ0KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-PCS
02RJ47Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RJ48Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-PCS
02RJ4JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-PCS
02RJ4KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Percutaneous	PX	ICD-10-PCS
	Endoscopic Approach		
X2RF032	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Open	PX	ICD-10-PCS
	Approach, New Technology Group 2		
X2RF432	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique,	PX	ICD-10-PCS
	Percutaneous Endoscopic Approach, New Technology Group 2		
	Valve repair		
33400	REPAIR OF AORTIC VALVE	PX	CPT-4
33401	VALVULOPLASTY OPEN	PX	CPT-4
33403	VALVULOPLASTY W/CP BYPASS	PX	CPT-4
33420	REVISION OF MITRAL VALVE	PX	CPT-4
33422	REVISION OF MITRAL VALVE	PX	CPT-4
33425	REPAIR OF MITRAL VALVE	PX	CPT-4
33426	REPAIR OF MITRAL VALVE	PX	CPT-4
33427	REPAIR OF MITRAL VALVE	PX	CPT-4
33463	VALVULOPLASTY TRICUSPID	PX	CPT-4
33464	VALVULOPLASTY TRICUSPID	PX	CPT-4
33465	REPLACE TRICUSPID VALVE	PX	CPT-4
33470	REVISION OF PULMONARY VALVE	PX	CPT-4
33471	VALVOTOMY PULMONARY VALVE	PX	CPT-4
33472	REVISION OF PULMONARY VALVE	PX	CPT-4
33474	REVISION OF PULMONARY VALVE	PX	CPT-4
92986	REVISION OF AORTIC VALVE	PX	CPT-4
92987	REVISION OF MITRAL VALVE	PX	CPT-4
92990	REVISION OF PULMONARY VALVE	PX	CPT-4

cder\_mpl2p\_wp047 Page 500 of 702



Appendix F. List of Generic and Brand Names of Medical Products Used to Define Censoring Criteria in this Request

Generic Name	Brand Name
	Anti-coagulants
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
dabigatran etexilate mesylate	Pradaxa
dabigatran etexilate mesylate	dabigatran etexilate
edoxaban tosylate	Savaysa
rivaroxaban	Xarelto
rivaroxaban	Xarelto DVT-PE Treat 30d Start
warfarin sodium	Coumadin
warfarin sodium	warfarin
warfarin sodium	Jantoven

cder\_mpl2p\_wp047 Page 501 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
Estroge	n replacement
drospirenone/estradiol	Angeliq
estradiol	estradiol
estradiol	Estrace
estradiol	Elestrin
estradiol	Vivelle-Dot
estradiol	Estraderm
estradiol	Divigel
estradiol	Evamist
estradiol	Estrasorb
estradiol	EstroGel
estradiol	Climara
estradiol	Menostar
estradiol	Alora
estradiol	Vivelle
estradiol	Estradiol Transdermal Patch
estradiol	Minivelle
estradiol	Estring
estradiol	Vagifem
estradiol	Yuvafem
estradiol	Dotti
estradiol	Lyllana
estradiol acetate	Femtrace
estradiol acetate	Femring
estradiol cypionate	Depo-Estradiol Depo-Estradiol
estradiol valerate	estradiol valerate
estradiol valerate	Delestrogen
estradiol/levonorgestrel	Climara Pro
estradiol/norethindrone acetate	Mimvey Lo
estradiol/norethindrone acetate	Mimvey
estradiol/norethindrone acetate	Activella
estradiol/norethindrone acetate	estradiol-norethindrone acet
estradiol/norethindrone acetate	Amabelz
estradiol/norethindrone acetate	Lopreeza
estradiol/norethindrone acetate	CombiPatch
estradiol/norgestimate	Prefest
estradiol/norgestimate	Ortho-Prefest
estradiol/progesterone	Bijuva
estrogens, conjugated	Premarin
estrogens, conjugated, synthetic A	Cenestin
estrogens, conjugated, synthetic B	Enjuvia
estrogens, conjugated/bazedoxifene acetate	Duavee
estrogens, conjugated/medroxyprogesterone acetate	Prempro
estrogens, conjugated/medroxyprogesterone acetate	Premphase
estrogens, esterified	Menest
estrogens,esterified/methyltestosterone	estrogens-methyltestosterone
estrogens, esterified/methyltestosterone	Covaryx

cder\_mpl2p\_wp047 Page 502 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

eneric Name	Brand Name
strogens, esterified/methyltestosterone	Covaryx H.S.
strogens,esterified/methyltestosterone	EEMT
strogens,esterified/methyltestosterone	EEMT HS
strogens,esterified/methyltestosterone	Essian
strogens,esterified/methyltestosterone	Essian H.S.
strone	estrone (bulk)
stropipate	Ogen 1.25
stropipate	estropipate
stropipate	Ogen 0.625
stropipate	Ogen 2.5
stropipate	Ortho-Est 0.625
stropipate	Ortho-Est 1.25
orethindrone acetate-ethinyl estradiol	Jinteli
orethindrone acetate-ethinyl estradiol	Femhrt Low Dose
orethindrone acetate-ethinyl estradiol	Femhrt 1/5
orethindrone acetate-ethinyl estradiol	Jevantique Lo
orethindrone acetate-ethinyl estradiol	Jevantique
orethindrone acetate-ethinyl estradiol	Fyavolv
orethindrone acetate-ethinyl estradiol	norethindrone ac-eth estradiol
H2-an	itagonist
zatidine	Axid
imotidine	Pepcid
imotidine	Pepcid RPD
metidine HCl	cimetidine HCl
metidine	cimetidine
amotidine	famotidine
izatidine	nizatidine
puprofen/famotidine	ibuprofen-famotidine
anitidine HCl	ranitidine HCl
metidine	
	Tagamet  Hearthurn Relief (cimetidine)
metidine	Heartburn Relief (cimetidine)
anitidine HCl	Acid Reducer (ranitidine)
amotidine	Acid Reducer (famotidine)
amotidine	Acid Controller
amotidine/calcium carbonate/magnesium hydroxide	Complete
anitidine HCl	Zantac
metidine	Tagamet HB
amotidine/calcium carbonate/magnesium hydroxide	Tums Dual Action (famotidine)
nitidine HCl	Zantac 150 EFFERdose
nitidine HCl	Zantac 25 EFFERdose
anitidine HCl	Wal-Zan 150
anitidine HCl	Wal-Zan 75
amotidine/calcium carbonate/magnesium hydroxide	Acid Controller Complete
anitidine HCl	Zantac 75
anitidine HCl	Zantac Maximum Strength
· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·

cder\_mpl2p\_wp047 Page 503 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name	
cimetidine	Acid Reducer (cimetidine)	
famotidine	Heartburn Relief (famotidine)	
famotidine/calcium carbonate/magnesium hydroxide	Dual Action Complete	
famotidine/calcium carbonate/magnesium hydroxide	Acid Reducer Complete (famot)	
ranitidine HCl	Taladine	
famotidine/calcium carbonate/magnesium hydroxide	Pepcid Complete	
famotidine	Pepcid AC	
ranitidine HCl	Acid Control (ranitidine)	
famotidine	Heartburn Prevention	
ranitidine HCl	Heartburn Relief (ranitidine)	
cimetidine	Heartburn 200	
cimetidine	Acid Relief (cimetidine)	
RANITIDINE HCL	Deprizine	
cimetidine	Heartburn	
ranitidine HCI/dietary supplement no.17	Gabitidine	
ranitidine HCI/dietary supplement no.8	Sentradine	
ibuprofen/famotidine	Duexis	
famotidine/calcium carbonate/magnesium hydroxide	Duo Fusion	
Non-steroidal anti-inflammatory drugs (NSAIDs)		

Naprosyn

ketorolac tromethamine Toradol naproxen sodium Anaprox DS naproxen sodium Anaprox naproxen EC-Naprosyn indomethacin Indocin rofecoxib Vioxx sulindac Clinoril ketoprofen Oruvail flurbiprofen Ansaid ibuprofen Motrin IB ibuprofen Motrin oxaprozin Daypro diclofenac sodium/misoprostol Arthrotec 50 diclofenac sodium/misoprostol Arthrotec 75 celecoxib Celebrex valdecoxib Bextra diclofenac potassium Cataflam diclofenac sodium Voltaren-XR diclofenac sodium Voltaren nabumetone Relafen ibuprofen Children's Motrin

naproxen

tolmetin sodium Tolectin DS tolmetin sodium Tolectin etodolac Lodine etodolac Lodine XL meloxicam meloxicam

Page 504 of 702 cder\_mpl2p\_wp047



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
naproxen	naproxen
diclofenac sodium	diclofenac sodium
piroxicam	Feldene
ketorolac tromethamine	ketorolac
hydrocodone/ibuprofen	Vicoprofen
ibuprofen	ibuprofen
naproxen sodium	Naprelan
naproxen sodium	naproxen sodium
flurbiprofen	flurbiprofen
piroxicam	piroxicam
etodolac	etodolac
oxaprozin	oxaprozin
diclofenac potassium	diclofenac potassium
nabumetone	nabumetone
tolmetin sodium	tolmetin
ketoprofen	ketoprofen
diclofenac epolamine	diclofenac epolamine
indomethacin	indomethacin
hydrocodone/ibuprofen	hydrocodone-ibuprofen
celecoxib	celecoxib
ibuprofen/famotidine	ibuprofen-famotidine
ibuprofen	Ibuprofen Jr Strength
ibuprofen/diphenhydramine citrate	Ibuprofen PM
ibuprofen	Infant's Ibuprofen
ibuprofen/pseudoephedrine HCl	Ibuprofen Cold-Sinus(with PSE)
ibuprofen	Children's Ibuprofen
naproxen sodium	All Day Pain Relief
fenoprofen calcium	fenoprofen
sumatriptan succinate/naproxen sodium	Treximet
ibuprofen	Genpril
naproxen/esomeprazole magnesium	Vimovo
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
mefenamic acid	Ponstel
mefenamic acid	mefenamic acid
naproxen sodium/pseudoephedrine HCl	Aleve Cold and Sinus
naproxen sodium/pseudoephedrine HCl	Aleve Sinus and Headache
lansoprazole/naproxen	PREVACID NapraPAC
ibuprofen/pseudoephedrine HCl	Wal-Profen Cold-Sinus
ibuprofen	Wal-Profen
naproxen sodium	Wal-Proxen
naproxen sodium/pseudoephedrine HCl	All Day Pain Relief Sinus,Cold
ibuprofen/pseudoephedrine HCl	Wal-Profen D Cold and Sinus
ibuprofen/diphenhydramine HCl	Ibuprofen PM
meclofenamate sodium	meclofenamate
sulindac	sulindac
Julilluac	Sumuac

cder\_mpl2p\_wp047 Page 505 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
naproxen/esomeprazole magnesium	naproxen-esomeprazole
sumatriptan succinate/naproxen sodium	sumatriptan-naproxen
diclofenac sodium	Dyloject
indomethacin sodium	indomethacin sodium
ibuprofen	Infant's Motrin
naproxen sodium/pseudoephedrine HCl	Sudafed 12 Hr Pressure-Pain
ibuprofen	Children's Motrin Jr Strength
ibuprofen/diphenhydramine citrate	Motrin PM
ibuprofen/pseudoephedrine HCl	Children's Motrin Cold
ibuprofen/oxycodone HCl	Combunox
ketorolac tromethamine	Sprix
naproxen sodium	All Day Relief
ibuprofen/phenylephrine HCl	Congestion Relief (ibuprof-PE)
ibuprofen	Menadol
ketoprofen	Orudis KT
ibuprofen/acetaminophen	Advil Dual Action
ibuprofen	Advil
ibuprofen/diphenhydramine citrate	Advil PM
ibuprofen/diphenhydramine HCl	Advil PM Liqui-Gels
ibuprofen	Advil Migraine
ibuprofen	Advil Liqui-Gel
ibuprofen	Children's Advil
ibuprofen	Advil Junior Strength
ibuprofen/pseudoephedrine HCl	Advil Cold and Sinus
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Allergy Sinus
ibuprofen	Infant's Advil
ibuprofen/phenylephrine HCl	Advil Congestion Relief
chlorpheniramine maleate/phenylephrine HCl/ibuprofen	Advil Allergy-Congestion Rlf
ibuprofen/phenylephrine HCl	Advil Sinus Congestion-Pain
diclofenac sodium/misoprostol	diclofenac-misoprostol
meloxicam	Mobic
ibuprofen	Q-Profen
fenoprofen calcium	Nalfon
ibuprofen	IBU-200
diclofenac epolamine	Flector
ibuprofen	Ibuprofen IB
ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief
dextromethorphan HBr/acetaminophen/doxylamine	Nite Time Cold-Flu
naproxen sodium/pseudoephedrine HCl	Sinus and Cold-D
ibuprofen	Children's Ibu-Drops
ibuprofen	Ibupain-200
ibuprofen	Profen IB
ibuprofen	Midol Max St Cramp Formula
naproxen sodium	Midol (naproxen)
diclofenac potassium	Zipsor

cder\_mpl2p\_wp047 Page 506 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
diclofenac potassium	Cambia
nabumetone	Relafen DS
diclofenac potassium	Lofena
naproxen sodium	Naprelan CR
ibuprofen	Nuprin
ibuprofen/pseudoephedrine HCl	Cold and Sinus Pain Relief
hydrocodone/ibuprofen	Reprexain
ibuprofen/pseudoephedrine HCl	Ibuprofen Cold
ibuprofen	Tab-Profen
naproxen sodium	Aleve
naproxen sodium/pseudoephedrine HCl	Aleve-D Sinus and Headache
naproxen sodium/pseudoephedrine HCl	Aleve-D Sinus and Cold
naproxen sodium/diphenhydramine HCl	Aleve PM
naproxen sodium	Flanax (naproxen)
ibuprofen/diphenhydramine HCl	ibuprofen-diphenhydramine HCl
ibuprofen	Child Ibuprofen
ibuprofen	Infants Ibu-Drops
ibuprofen	Ibu-Drops
ibuprofen lysine/PF	ibuprofen lysine (PF)
ibuprofen	Children's Profen IB
ibuprofen	Infants ProfenIB
indomethacin, submicronized	Tivorbex
diclofenac submicronized	Zorvolex
meloxicam, submicronized	Vivlodex
ibuprofen/irritants counter-irritants combination no.2	Comfort Pac-Ibuprofen
meloxicam/irritants counter-irritants combination no.2	Comfort Pac-Meloxicam
bupivacaine/meloxicam	Zynrelef
ibuprofen	, I-Prin
naproxen sodium	Mediproxen
ibuprofen	Addaprin
ibuprofen	Medi-Profen
ibuprofen	Infant's Medi-Profen
ibuprofen	Children's Medi-Profen
ibuprofen	Nuprin Menstrual Relief
ibuprofen/diphenhydramine citrate	ibuprofen-diphenhydramine cit
ibuprofen	Motrin Migraine
naproxen sodium/pseudoephedrine HCl	Sudafed 12 Hr Sinus-Pain
naproxen sodium/pseudoephedrine HCl	Sudafed Sinus 12Hr Pressr-Pain
ibuprofen/phenylephrine HCl	Sudafed PE Head Congestn-Pain
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Xylon 10
ibuprofen	ElixSure IB Suspension
fentanyl citrate	fentanyl citrate
ketorolac tromethamine	•
	ReadySharp ketorolac Fenortho
fenoprofen calcium	renortho

cder\_mpl2p\_wp047 Page 507 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
indomethacin	Indocin SR
ketoprofen	Orudis
ibuprofen	IBU
naproxen/irritant counter-irritant combination no.2	Comfort Pac-Naproxen
ibuprofen lysine/PF	NeoProfen (ibuprofen lysn)(PF)
ibuprofen	Advanced Pain Relief
Ibuprofen/Caffeine/Vitamins B1, B2, B6, & B12	IC400
Ibuprofen/Caffeine/Vitamins B1, B2, B6, & B12	IC800
diclofenac sodium/capsicum oleoresin	Inflammacin
naproxen/capsicum oleoresin	Naprotin
ibuprofen/glycerin	Ibupak
ibuprofen	Yaprofen
celecoxib	Elyxyb
calcitriol	calcitriol
naproxen sodium/diphenhydramine HCl	Naproxen PM
ibuprofen	Provil
phenylephrine HCl/ketorolac tromethamine	Omidria
naproxen sodium/menthol	NaproPak Cool
naproxen	EC-Naproxen
NAPROXEN	Naproderm
ibuprofen	Ibuprofen M
ibuprofen	Caldolor
tramadol HCI/celecoxib	Seglentis
fenoprofen calcium	ProFeno
indomethacin sodium	Indocin I.V.
phenol	Sore Throat (phenol)
meloxicam, submicronized	meloxicam submicronized
naproxen/dietary supplement,misc. cb.11	Theraproxen
naproxen/dietary supplement,misc. cb.11	Theraproxen-90
piroxicam/dietary supplement,misc. cb.11	Therafeldamine
ibuprofen/dietary supplement,misc. cb.11	Theraprofen-60
ibuprofen/dietary supplement,misc. cb.11	Theraprofen-90
naproxen sodium	Naprelan CR Dose Card
naproxen/capsaicin/menthol/methyl salicylate	Pain Relief Collection
amlodipine besylate/celecoxib	Consensi DermaSilkRx DicloPak
diclofenac sodium/capsicum oleoresin	
diclofenac sodium/capsaicin	Flexipak
bupivacaine/ketorolac/ketamine ropivacaine HCl/clonidine HCl/ketorolac tromethamine	bupivacaine-ketorolac-ketamine
ropivacaine hel/cionidine hel/ketorolae tromethamine ropivacaine/ketorolae/ketamine	ropivacaine-clonidin-ketorolac ropivacaine-ketorolac-ketamine
naproxen/capsaicin/menthol	NaproxenPax
naproxen/capsaicin/menthol	NaproPax NaproPax
diclofenac sodium/capsicum oleoresin	Xenaflamm
celecoxib/capsaicin/menthol	CapXib
celecoxib/lidocaine/menthol	LidoXib
cereconing indocarries interition	LIUUAID

cder\_mpl2p\_wp047 Page 508 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name   Brand Name   Brand Name   Brand Name   Bibuprofen/pseudoephedrine HCl   All Day Cold and Sinus   All Day		
naproxen sodium/pseudoephedrine HCI ropivacaine HCI/epinephrine/clonidine HCI/ketorolac trometh ropivacaine-epi-clonid-ketorol diclofenac sodium/methyl salicylate/menthol/camphor meloxicam diclofenac sodium/capsaicin celecoxib/capsaicin/methyl salicylate/menthol ibuprofen/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nbumetone/capsaicin/methyl salicylate/menthol nidiclofenac sodium/capsaicin diclofenac sodium/rolamine salicylate diclofenac sodium/rolamine salicylate diclofenac sodium/rolamine salicylate diclofenac sodium/rolamine salicylate diclofenac submicronized diclofenac submi	Generic Name	Brand Name
ropivacaine HCl/epinephrine/clonidine HCl/ketorolac trometh ropivacaine-epi-clonid-ketorol diclofenac sodium/methyl salicylate/menthol/camphor inflamma-K Qmiiz ODT diclofenac sodium/capsaicin Methyl salicylate/menthol NuDroxiPAK NuDroxiPAK NuDroxiPAK bibuprofen/capsaicin/methyl salicylate/menthol NuDroxiPAK H-800 NuDroxiPAK H-800 NuDroxiPAK H-800 NuDroxiPAK N-500 NuDroxiPAK N-500 NuDroxiPAK N-500 NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-75 NuDroxiPAK E-400 NuDroxiPAK DSDR-75 NuDroxiPAK E-400 NuDroxiPAK DSDR-75 NuDroxiPAK DSDR-75 NuDroxiPAK E-400 Nu	ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief (ibuprofen)
diclofenac sodium/methyl salicylate/menthol/camphor meloxicam (Omiiz ODT (Aubicio TabPAK (Celecoxib/capsaicin/methyl salicylate/menthol nabumetone/capsaicin/methyl salicylate/menthol nabumetone/capsaicin/methyl salicylate/menthol nabumetone/capsaicin/methyl salicylate/menthol nabumetone/capsaicin/methyl salicylate/menthol niclofenac sodium/capsaicin/methyl salicylate/menthol neloxicam neloxicam neloxicam neloxicam neloxicam neloxicam niclofenac sodium/locanie niclofenac sodium/locanie niclofenac sodium/rolamine salicylate niclofenac sodium/methol/camphor nidomethacin, submicronized nidofenac sodium/methol/camphor nidomethacin, submicronized nidofenac sodium/capsicum oleoresin nibuprofen/famotidine netoralca/norflurane and pentafluoropropane (HFC 245fa) netorolac/norflurane and pentafluoropropane (HFC 245fa) net	naproxen sodium/pseudoephedrine HCl	All Day Cold and Sinus
meloxicam diclofenac sodium/capsaicin NuDiclo TabPAK (solicitoria colcium/capsaicin/methyl salicylate/menthol NuDroxiPAK 1-800 NuDroxiPAK DSDR-50 diclofenac sodium/capsaicin/methyl salicylate/menthol NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-50 NuDroxiPAK DSDR-75 NuDroxiPAK PSDR-75 NuDroxiP	ropivacaine HCl/epinephrine/clonidine HCl/ketorolac tromet	h ropivacaine-epi-clonid-ketorol
diclofenac sodium/capsaicin celecoxib/capsaicin/methyl salicylate/menthol ibuprofen/capsaicin/methyl salicylate/menthol nabumetone/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol etodolac/capsaicin/methyl salicylate/menthol dexamethasone sod ph/moxifloxacin HCI/ketorolac/sod chlor, dexamet-moxifl-ketoro-NaCI(PF) meloxicam diclofenac sodium/lidocaine diclofenac sodium/lidocaine diclofenac sodium/lidocaine diclofenac sodium/capsaicin diclofenac sodium/lidocaine diclofenac sodium/capsaicin diclofenac sodium/lidocaine diclofenac submicronized diclofenac submicroniz	diclofenac sodium/methyl salicylate/menthol/camphor	Inflamma-K
celecoxib/capsaicin/methyl salicylate/menthol         NuDroxiPAK           ibuprofen/capsaicin/methyl salicylate/menthol         NuDroxiPAK N-500           nabumetone/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-50           diclofenac sodium/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-50           diclofenac sodium/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           etodolac/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           diclofenac sodium/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           meloxicam         Anjeso           diclofenac sodium/rolamine salicylate         Lidovix           diclofenac sodium/capsaicin         Inflatherm (diclofenac-rolam)           diclofenac sodium/rolamine salicylate         Inflatherm (diclofenac-renthol)           diclofenac sodium/rolamine salicylate         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         diclofenac submicronized           diclofenac sodium/rolamine salicylate         Toronova IIS           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toron	meloxicam	Qmiiz ODT
ibuprofen/capsaicin/methyl salicylate/menthol         NuDroxiPAK N-500           diclofenac sodium/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-50           diclofenac sodium/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           etodiac/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           etodiac/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           meloxicam         Anjeso           diclofenac sodium/lidocaine         Licart           diclofenac sodium/capsaicin         Indavix           diclofenac sodium/rolamine salicylate         Inflatherm (diclofenac-menthol)           diclofenac sodium/menthol/camphor         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         previdolRx Plus Analgesic Pak           biuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova II SUIK           NAPROXEN         Napro           buprofen         Cap-Profen           ibuprofen         pantoprazole sodium           pantoprazole sodium         pantoprazole           pantoprazole sodium         pantoprazole           pantoprazole sodium         pantoprazole           pantoprazole magnes	diclofenac sodium/capsaicin	NuDiclo TabPAK
nabumetone/capsaicin/methyl salicylate/menthol         NuDroxiPAK N-500           diclofenac sodium/capsaicin/methyl salicylate/menthol         NuDroxiPAK DSDR-75           etodolac/capsaicin/methyl salicylate/menthol         NuDroxiPAK E-400           dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlort, dexamethasone sod ph/moxifloxacin         Anjeso           diclofenac epolamine         Licart           diclofenac sodium/lidocaine         Lidovix           diclofenac sodium/lidocaine         Lidovix           diclofenac sodium/lidocaine         Inflatherm (diclofenac-trolam)           diclofenac sodium/lidocaine         Inflatherm (diclofenac-trolam)           diclofenac sodium/minethol/camphor         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         previdolRx Plus Analgesic Pak           buprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           NAPROXEN         Toronova II SUIK           NAPROXEN         Napro           buprofen         Ibutab           buprofen         Ibutab           buprofen         protonix           pantoprazole sodium         protonix           pantoprazole sodium         prot	celecoxib/capsaicin/methyl salicylate/menthol	NuDroxiPAK
diclofenac sodium/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol stodolac/capsaicin/methyl salicylate/menthol vubroxiPAK DSDR-75 veramethosone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamet-moxifl-ketoro-NaCl(PF) meloxicam diclofenac epolamine diclofenac sodium/capsaicin Lidovix Lidovix diclofenac sodium/capsaicin locare in Lidovix lidofenac sodium/rolamine salicylate linavix diclofenac sodium/rolamine salicylate linflatherm (diclofenac-trolam) linflatherm (diclofenac-trolam) linflatherm, submicronized diclofenac sodium/capsicum oleoresin lindomethacin, submicronized diclofenac sodium/capsicum oleoresin lindomethacin submicronized diclofenac sodium/capsicum oleoresin PrevidolRx Plus Analgesic Pak Duexis libuprofen/famotidine protopane (HFC 245fa) NAPROXEN Napro Cap-Profen libuprofen Cap-Profen libutab li	ibuprofen/capsaicin/methyl salicylate/menthol	NuDroxiPAK I-800
diclofenac sodium/capsaicin/methyl salicylate/menthol diclofenac sodium/capsaicin/methyl salicylate/menthol stodolac/capsaicin/methyl salicylate/menthol vubroxiPAK DSDR-75 veramethosone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamet-moxifl-ketoro-NaCl(PF) meloxicam diclofenac epolamine diclofenac sodium/capsaicin Lidovix Lidovix diclofenac sodium/capsaicin locare in Lidovix lidofenac sodium/rolamine salicylate linavix diclofenac sodium/rolamine salicylate linflatherm (diclofenac-trolam) linflatherm (diclofenac-trolam) linflatherm, submicronized diclofenac sodium/capsicum oleoresin lindomethacin, submicronized diclofenac sodium/capsicum oleoresin lindomethacin submicronized diclofenac sodium/capsicum oleoresin PrevidolRx Plus Analgesic Pak Duexis libuprofen/famotidine protopane (HFC 245fa) NAPROXEN Napro Cap-Profen libuprofen Cap-Profen libutab li	nabumetone/capsaicin/methyl salicylate/menthol	NuDroxiPAK N-500
etodolac/capsaicin/methyl salicylate/menthol         NuDroxiPAK E-400           dexamethasone sod ph/moxifloxacin HCI/ketorolac/sod chlor, meloxicam         dexamet-moxifl-ketoro-NaCI(PF)           meloxicam         Anjeso           diclofenac epolamine         Licart           diclofenac sodium/Idocaine         Lidovix           diclofenac sodium/capsaicin         Inflatherm (diclofenac-trolam)           diclofenac sodium/menthol/camphor         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova II SUIK           NAPROXEN         Napro           ibuprofen         Ibutab           pantoprazole sodium         Proton pump ilibitors           pantoprazole sodium         Protonix           lansoprazole sodium         Protonix           lansoprazole sodium         Protonix           lansoprazole sodium         Protonix           lansoprazole sodium         panoprazole           lansoprazole magnesium         esomeprazole magnesium           omeprazole magnesium         esomeprazole magnesium           omeprazole	diclofenac sodium/capsaicin/methyl salicylate/menthol	NuDroxiPAK DSDR-50
etodolac/capsaicin/methyl salicylate/menthol         NuDroxiPAK E-400           dexamethasone sod ph/moxifloxacin HCI/ketorolac/sod chlor, meloxicam         Anjeso           diclofenac epolamine         Licart           diclofenac sodium/Idocaine         Lidovix           diclofenac sodium/capsaicin         Inavix           diclofenac sodium/trolamine salicylate         Inflatherm (diclofenac-trolam)           diclofenac sodium/menthol/camphor         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Napro           buprofen         Duata           ibuprofen         Bubutab           pantoprazole sodium         pantoprazole sodium           lansoprazole sodium         protonix           lansoprazole magnesium         esomeprazole magnesium	diclofenac sodium/capsaicin/methyl salicylate/menthol	NuDroxiPAK DSDR-75
dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor, dexamet-moxifl-ketoro-NaCl(PF)           meloxicam         Anjeso           diclofenac epolamine         Licart           diclofenac sodium/lidocaine         Lidovix           diclofenac sodium/rapasaicin         Inavix           diclofenac sodium/menthol/camphor         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         indomethacin submicronized           diclofenac sodium/capsicum oleoresin         indomethacin submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Napro           NAPROXEN         Napro           ibuprofen         Lbutab           Protonyumihibitors           pantoprazole sodium         pantoprazole           pantoprazole sodium         pantoprazole           pantoprazole sodium         prevacid 24Hr           rabeprazole sodium         prevacid 24Hr           alansoprazole         amsoriazole           omeprazole magnesium         omeprazole           amsoriazole damoxicillin trihydrate/clarithromycin         amo	etodolac/capsaicin/methyl salicylate/menthol	NuDroxiPAK E-400
diclofenac epolamine diclofenac sodium/lidocaine diclofenac sodium/lidocaine diclofenac sodium/capsaicin diclofenac sodium/rotamine salicylate diclofenac sodium/menthol/camphor diclofenac sodium/menthol/camphor indomethacin, submicronized diclofenac sodium/capsicum oleoresin ibuprofen/famotidine ketorolac/norflurane and pentafluoropropane (HFC 245fa) ketorolac/norflurane and pentafluoropropane (HFC 245fa) ketorolac/norflurane and pentafluoropropane (HFC 245fa) buprofen ibuprofen ibuprofen buprofen ibuprofen pantoprazole sodium pantoprazole sodium lansoprazole lansoprazole someprazole magnesium naproxen/esomeprazole magnesium persone someprazole magnesium persone someprazole magnesium persone protone protone prilosec prilosec prilosec prilosec provacid prevacid		r, dexamet-moxifl-ketoro-NaCl(PF)
diclofenac sodium/lidocaine         Lidovix           diclofenac sodium/capsaicin         Inavix           diclofenac sodium/trolamine salicylate         Inflatherm (diclofenac-trolam)           diclofenac sodium/menthol/camphor         Inflatherm(diclofenac-menthol)           indomethacin, submicronized         diclofenac submicronized           diclofenac submicronized         diclofenac submicronized           ketorolac/norflurane and pentafluoropropale (HFC 245fa)         Toronoval SUIK           NAPROXEN         Napro           buprofen         Buttotal           buprofen         Buttotal           buprofen         Buttotal           buprofen         pantoprazole	meloxicam	Anjeso
diclofenac sodium/capsaicin         Inavix           diclofenac sodium/trolamine salicylate         Inflatherm (diclofenac-trolam)           diclofenac sodium/menthol/camphor         Inflatherm (diclofenac-trolam)           indomethacin, submicronized         indomethacin submicronized           diclofenac submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           NAPROXEN         Napro           ibuprofen         Cap-Profen           ibuprofen         Ibutab           pantoprazole sodium         pantoprazole           pantoprazole sodium         pantoprazole           pantoprazole sodium         prevacid 24Hr           lansoprazole         rabeprazole           omeprazole         Inasoprazole           omeprazole         omeprazole           esomeprazole magnesium         esomeprazole magnesium           omeprazole magnesium         Vimovo           omeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium IV           lansoprazole sodium         Nexium IV	diclofenac epolamine	Licart
diclofenac sodium/trolamine salicylate         Inflatherm (diclofenac-trolam)           diclofenac sodium/menthol/camphor         Inflatherm (diclofenac-menthol)           indomethacin, submicronized         indomethacin submicronized           diclofenac submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           NAPROXEN         Napro           ibuprofen         Cap-Profen           ibuprofen         Ibutab           pantoprazole sodium         pantoprazole           pantoprazole sodium         prevacid 24Hr           lansoprazole sodium         rabeprazole           lansoprazole         lansoprazole           omeprazole         omeprazole           esomeprazole magnesium         esomeprazole           esomeprazole magnesium         esomeprazole magnesium           omeprazole magnesium         Vimovo           omeprazole magnesium         Prilosec           omeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium IV           lansoprazole sodium         Nexium IV		Lidovix
diclofenac sodium/menthol/camphor         Inflatherm(diclofenac-menthol)           indomethacin, submicronized         indomethacin submicronized           diclofenac submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova II SUIK           NAPROXEN         Napro           ibuprofen         Ibutab           Proton pump inibitors           pantoprazole sodium         pantoprazole           pantoprazole sodium         Prevonix           lansoprazole sodium         rabeprazole           lansoprazole sodium         rabeprazole           lansoprazole magnesium         rabeprazole           omeprazole magnesium         esomeprazole magnesium           lansoprazole/amoxicillin trihydrate/clarithromycin         amoxicil-clarithromy-lansopraz           omeprazole magnesium         Vimovo           omeprazole magnesium         Prilosec           omeprazole magnesium         Prilosec           omeprazole magnesium         Nexium Packet           esomeprazole sodium         Nexium	diclofenac sodium/capsaicin	Inavix
indomethacin, submicronized         indomethacin submicronized           diclofenac submicronized         diclofenac submicronized           diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova II SUIK           NAPROXEN         Napro           ibuprofen         Loap-Profen           ibuprofen         Ibutab           Proton pump inhibitors           pantoprazole sodium         pantoprazole           pantoprazole sodium         Prevacid 24Hr           lansoprazole sodium         Prevacid 24Hr           lansoprazole sodium         esomeprazole           lansoprazole         omeprazole           omeprazole magnesium         esomeprazole magnesium           lansoprazole/amoxicillin trihydrate/clarithromycin         amoxicil-clarithromy-lansopraz           omeprazole magnesium         Vimovo           omeprazole magnesium         Prilosec           omeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium IV           esomeprazole sodium         Nexium IV	diclofenac sodium/trolamine salicylate	Inflatherm (diclofenac-trolam)
diclofenac submicronized diclofenac sodium/capsicum oleoresin ibuprofen/famotidine NaproOXEN ibuprofen ibutab  Proton pump inhibitors  pantoprazole pantoprazole pantoprazole pantoprazole pantoprazole pantoprazole pantoprazole pantoprazole ilansoprazole ilansoprazole ilansoprazole ilansoprazole ilansoprazole ilansoprazole ilansoprazole ilansoprazole ilansoprazole megrazole magnesium ilansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium omeprazole magnesium omeprazole magnesium viimovo omeprazole omeprazole magnesium prilosec omeprazole magnesium prilosec omeprazole magnesium Nexium Packet esomeprazole magnesium Nexium esomeprazole magnesium Nexium IV lansoprazole Prevacid	diclofenac sodium/menthol/camphor	Inflatherm(diclofenac-menthol)
diclofenac sodium/capsicum oleoresin         PrevidolRx Plus Analgesic Pak           ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           NAPROXEN         Napro           ibuprofen         Cap-Profen           ibuprofen         Ibutab           Proton pump inhibitors           pantoprazole sodium         pantoprazole           pantoprazole sodium         Prevacid 24Hr           rabeprazole sodium         rabeprazole           lansoprazole         Iansoprazole           omeprazole sodium         esomeprazole           lansoprazole sodium         amsoprazole           lansoprazole sodium         amsoprazole           lansoprazole magnesium         esomeprazole           omeprazole magnesium         emprazole magnesium           omeprazole magnesium         vimovo           omeprazole magnesium         Prilosec           omeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium IV           lansoprazole         Prevacid	indomethacin, submicronized	indomethacin submicronized
ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova II SUIK           NAPROXEN         Napro           ibuprofen         Cap-Profen           ibuprofen         Ibutab           Proton pump inhibitors           pantoprazole sodium         pantoprazole           pantoprazole sodium         Prevacid 24Hr           rabeprazole sodium         rabeprazole           lansoprazole         lansoprazole           omeprazole sodium         esomeprazole           lansoprazole sodium         rabeprazole           lansoprazole         omeprazole           esomeprazole magnesium         esomeprazole magnesium           lansoprazole/amoxicillin trihydrate/clarithromycin         amoxicil-clarithromy-lansopraz           omeprazole magnesium         omeprazole magnesium           omeprazole magnesium         Prilosec           omeprazole magnesium         Prilosec           omeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium IV           esomeprazole sodium         Nexium IV <td>diclofenac submicronized</td> <td>diclofenac submicronized</td>	diclofenac submicronized	diclofenac submicronized
ibuprofen/famotidine         Duexis           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova SUIK           ketorolac/norflurane and pentafluoropropane (HFC 245fa)         Toronova II SUIK           NAPROXEN         Napro           ibuprofen         Cap-Profen           ibuprofen         Ibutab           Proton pump inhibitors           pantoprazole sodium         pantoprazole           pantoprazole sodium         Prevacid 24Hr           rabeprazole sodium         rabeprazole           lansoprazole         lansoprazole           omeprazole sodium         esomeprazole           lansoprazole sodium         rabeprazole           lansoprazole         omeprazole           esomeprazole magnesium         esomeprazole magnesium           lansoprazole/amoxicillin trihydrate/clarithromycin         amoxicil-clarithromy-lansopraz           omeprazole magnesium         omeprazole magnesium           omeprazole magnesium         Prilosec           omeprazole magnesium         Prilosec           omeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium Packet           esomeprazole magnesium         Nexium IV           esomeprazole sodium         Nexium IV <td>diclofenac sodium/capsicum oleoresin</td> <td>PrevidolRx Plus Analgesic Pak</td>	diclofenac sodium/capsicum oleoresin	PrevidolRx Plus Analgesic Pak
ketorolac/norflurane and pentafluoropropane (HFC 245fa)Toronova II SUIKNAPROXENNaproibuprofenCap-ProfenibuprofenIbutabProton pump inhibitorspantoprazole sodiumpantoprazolepantoprazole sodiumProtonixlansoprazolePrevacid 24Hrrabeprazole sodiumrabeprazolelansoprazolelansoprazoleomeprazoleomeprazoleesomeprazole magnesiumesomeprazolelansoprazole/amoxicillin trihydrate/clarithromycinamoxicil-clarithromy-lansoprazomeprazole magnesiumomeprazole magnesiumnaproxen/esomeprazole magnesiumVimovoomeprazole magnesiumPrilosecomeprazole magnesiumNexium Packetesomeprazole magnesiumNexium Packetesomeprazole magnesiumNexium IVlansoprazolePrevacid	•	_
NAPROXEN ibuprofen ibuprofen ibuprofen ibuprofen ibuprofen ibuprofen ibuprofen  Proton pump inhibitors  pantoprazole sodium pantoprazole sodium pantoprazole sodium lansoprazole pantoprazole lansoprazole lansoprazole lansoprazole lansoprazole lansoprazole lansoprazole lansoprazole omeprazole omeprazole esomeprazole magnesium esomeprazole magnesium omeprazole magnesium Nimovo omeprazole magnesium Prilosec omeprazole magnesium Nexium Packet esomeprazole magnesium Nexium esomeprazole sodium Nexium IV lansoprazole Prevacid	ketorolac/norflurane and pentafluoropropane (HFC 245fa)	Toronova SUIK
ibuprofen Ibutab  Proton pump inhibitors  pantoprazole sodium pantoprazole sodium Protonix lansoprazole sodium Prevacid 24Hr rabeprazole sodium rabeprazole lansoprazole sodium rabeprazole lansoprazole in ansoprazole lansoprazole omeprazole omeprazole omeprazole magnesium esomeprazole magnesium aproxen/esomeprazole magnesium omeprazole magnesium Vimovo  omeprazole omeprazole magnesium Prilosec omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole magnesium Nexium Packet esomeprazole sodium Nexium IV lansoprazole		Toronova II SUIK
ibutprofenProton pump inhibitorspantoprazole sodiumpantoprazolepantoprazole sodiumProtonixlansoprazolePrevacid 24Hrrabeprazole sodiumrabeprazolelansoprazolelansoprazoleomeprazoleomeprazoleesomeprazole magnesiumesomeprazole magnesiumlansoprazole/amoxicillin trihydrate/clarithromycinamoxicil-clarithromy-lansoprazomeprazole magnesiumomeprazole magnesiumnaproxen/esomeprazole magnesiumVimovoomeprazolePrilosecomeprazole magnesiumPrilosecesomeprazole magnesiumNexium Packetesomeprazole magnesiumNexiumesomeprazole sodiumNexiumlansoprazole sodiumNexium IVlansoprazolePrevacid	NAPROXEN	Napro
pantoprazole sodium pantoprazole pantoprazole sodium Protonix lansoprazole lansoprazole prevacid 24Hr rabeprazole sodium rabeprazole lansoprazole lansoprazole lansoprazole omeprazole omeprazole omeprazole esomeprazole magnesium esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium naproxen/esomeprazole magnesium omeprazole magnesium naproxen/esomeprazole magnesium Vimovo omeprazole omeprazole magnesium naproxen/esomeprazole magnesium Nexium Packet esomeprazole magnesium Nexium Packet esomeprazole sodium Nexium IV lansoprazole	ibuprofen	Cap-Profen
pantoprazole sodium pantoprazole sodium Protonix lansoprazole Prevacid 24Hr rabeprazole sodium rabeprazole lansoprazole lansoprazole lansoprazole omeprazole omeprazole esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium Nexium Packet esomeprazole magnesium oneprazole sodium Nexium IV lansoprazole	ibuprofen	Ibutab
pantoprazole sodium lansoprazole rabeprazole sodium rabeprazole sodium rabeprazole lansoprazole lansoprazole omeprazole omeprazole esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium omeprazole omeprazole magnesium omeprazole omeprazole magnesium omeprazole omeprazole magnesium omeprazole omeprazole magnesium omeprazole omeprazole omeprazole magnesium omeprazole omep	Proton pump	inhibitors
lansoprazole rabeprazole sodium rabeprazole lansoprazole lansoprazole lansoprazole omeprazole omeprazole omeprazole esomeprazole magnesium esomeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium vimovo omeprazole magnesium Prilosec omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole magnesium Nexium Packet Prevacid	pantoprazole sodium	pantoprazole
rabeprazole lansoprazole lansoprazole omeprazole omeprazole esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium vimovo omeprazole omeprazole magnesium omeprazole magnesium vimovo omeprazole prilosec omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole sodium Nexium IV lansoprazole Prevacid	pantoprazole sodium	Protonix
lansoprazole omeprazole omeprazole esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium vimovo omeprazole omeprazole magnesium Prilosec omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole sodium Nexium IV lansoprazole Prevacid	lansoprazole	Prevacid 24Hr
omeprazole esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium vimovo omeprazole omeprazole magnesium  Prilosec omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole sodium Nexium IV lansoprazole Prevacid	rabeprazole sodium	·
esomeprazole magnesium lansoprazole/amoxicillin trihydrate/clarithromycin omeprazole magnesium omeprazole magnesium omeprazole magnesium omeprazole magnesium vimovo omeprazole omeprazole magnesium omeprazole prilosec omeprazole magnesium esomeprazole magnesium Nexium Packet esomeprazole magnesium esomeprazole sodium Nexium IV lansoprazole	·	·
lansoprazole/amoxicillin trihydrate/clarithromycin amoxicil-clarithromy-lansopraz omeprazole magnesium omeprazole magnesium Vimovo omeprazole magnesium Prilosec omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole magnesium Nexium Nexium Vimovo Prilosec P	•	•
omeprazole magnesium naproxen/esomeprazole magnesium omeprazole omeprazole magnesium omeprazole omeprazole omeprazole magnesium esomeprazole magnesium esomeprazole sodium location prevacid omeprazole magnesium Nexium Packet Nexium Nexium Nexium IV Iansoprazole		
naproxen/esomeprazole magnesium  omeprazole  omeprazole magnesium  esomeprazole magnesium  esomeprazole magnesium  esomeprazole sodium  lansoprazole  Vimovo  Prilosec  Prilosec  Nexium Packet  Nexium  Nexium  Nexium  Prilosec  Nexium Packet  Prevacid	•	amoxicil-clarithromy-lansopraz
omeprazole omeprazole magnesium Prilosec esomeprazole magnesium Nexium Packet esomeprazole magnesium Nexium esomeprazole sodium Nexium IV lansoprazole Prevacid	•	
omeprazole magnesium esomeprazole magnesium esomeprazole magnesium esomeprazole sodium ly lansoprazole Prilosec Nexium Packet Nexium Nexium Packet Nexium Nexium Nexium Packet		
esomeprazole magnesium esomeprazole magnesium Nexium Nexium Nexium Nexium IV Iansoprazole Prevacid	omeprazole	
esomeprazole magnesium esomeprazole sodium Nexium IV lansoprazole Prevacid	omeprazole magnesium	Prilosec
esomeprazole sodium  Nexium IV  Prevacid	esomeprazole magnesium	Nexium Packet
lansoprazole Prevacid	· -	
·	·	
Description Columbia	·	
lansoprazoie Prevacia SoluTab	lansoprazole	Prevacid SoluTab

cder\_mpl2p\_wp047 Page 509 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Consula Nama	Duand Name
Generic Name lansoprazole/naproxen	PREVACID NapraPAC
lansoprazole/maproxem	Prevpac
lansoprazole	Prevacid IV
omeprazole/sodium bicarbonate	omeprazole-sodium bicarbonate
naproxen/esomeprazole magnesium	naproxen-esomeprazole
lansoprazole	Heartburn Treatment 24 Hour
esomeprazole magnesium	Nexium 24HR
lansoprazole	Heartburn Relief 24 Hour
omeprazole/sodium bicarbonate	Zegerid OTC
rabeprazole sodium	AcipHex Sprinkle
rabeprazole sodium	AcipHex
esomeprazole sodium	esomeprazole sodium
dexlansoprazole	dexlansoprazole
omeprazole magnesium	Prilosec OTC
OMEPRAZOLE	Omeprazole+SyrSpend SF Alka
esomeprazole strontium	esomeprazole strontium
omeprazole/sodium bicarbonate	Zegerid
dexlansoprazole	Kapidex
dexlansoprazole	Dexilant
colchicine	colchicine
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
esomeprazole magnesium/glycerin	Esomep-EZS
aspirin/omeprazole	Yosprala
aspirin/omeprazole	aspirin-omeprazole
omeprazole/clarithromycin/amoxicillin trihydrate	Omeclamox-Pak
OMEPRAZOLE	FIRST-Omeprazole
LANSOPRAZOLE	FIRST-Lansoprazole
omeprazole/sodium bicarbonate	OmePPi
omeprazole magnesium	Acid Reducer (omeprazole)
esomeprazole magnesium	Heartburn Treatment
famotidine	Zantac-360 (famotidine)
Selective serotonin reuptake i	nhibitor (SSRI) antidepressants
fluoxetine HCl	Prozac Weekly
CL .: LIGH	

nuoxetine nei	FIOZAC WEEKI
fluoxetine HCl	Sarafem
olanzapine/fluoxetine HCl	Symbyax
fluoxetine HCl	Prozac
paroxetine HCl	Paxil CR
paroxetine HCl	Paxil
sertraline HCl	Zoloft
sertraline HCl	sertraline
citalopram hydrobromide	citalopram
fluvoxamine maleate	fluvoxamine
fluoxetine HCl	fluoxetine

olanzapine/fluoxetine HCl olanzapine-fluoxetine escitalopram oxalate escitalopram oxalate

cder\_mpl2p\_wp047 Page 510 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
paroxetine HCl	paroxetine HCl
fluoxetine HCl	Selfemra
escitalopram oxalate	Lexapro
citalopram hydrobromide	Celexa
fluoxetine HCl	Rapiflux
zaleplon	zaleplon
paroxetine mesylate	Pexeva
metformin HCl	metformin
fluoxetine HCI/dietary supplement no.17	Gaboxetine
fluoxetine HCI/dietary supplement no.8	Sentroxatine
fluvoxamine maleate	Luvox CR
paroxetine mesylate	Brisdelle
•	nsulin
insulin lispro	Humalog U-100 Insulin
insulin lispro protamine and insulin lispro	Humalog Mix 75-25(U-100)Insuln
insulin lispro protamine and insulin lispro	Humalog Mix 73-25(0-100)IIIsuIII Humalog Mix 50-50 Insuln U-100
insulin lispro	Humalog KwikPen Insulin
insulin lispro	Humalog Junior KwikPen U-100
•	Basaglar KwikPen U-100 Insulin
insulin glargine, human recombinant analog insulin lispro-aabc	-
	Lyumjev U-100 Insulin
insulin lispro	insulin lispro
insulin lispro-aabc	Lyumjev KwikPen U-100 Insulin
insulin regular, beef-pork	lletin I Regular
insulin, pork purified	lletin II Regular (Pork)
insulin regular, human	Humulin R Regular U-100 Insuln
insulin lispro-aabc	Lyumjev KwikPen U-200 Insulin
insulin lispro protamine and insulin lispro	insulin lispro protamin-lispro
insulin isophane NPH,bf-pk	lletin I NPH
insulin isophane,pork pure	lletin II NPH (Pork)
insulin NPH human isophane	Humulin N NPH U-100 Insulin
insulin zinc,beef-pork	lletin I Lente
insulin zinc,pork purified	lletin II Lente (Pork)
insulin zinc human recombinant	Humulin L
insulin regular, human	Humulin R U-500 (Conc) Insulin
insulin zinc extended human recombinant	Humulin U Insulin
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 Insulin
insulin lispro	Humalog Pen
insulin NPH human isophane	Humulin N Pen
insulin NPH human isophane/insulin regular, human	Humulin 70/30 Insulin Pen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 KwikPen
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 KwikPen
insulin NPH human isophane	Humulin N NPH Insulin KwikPen
insulin regular, human	Humulin R U-500 (Conc) Kwikpen
insulin NPH human isophane/insulin regular, human	Humulin 50/50
nsum nya numan isophane/insum regular, numan	חמווומוווו טע/טע

cder\_mpl2p\_wp047 Page 511 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
insulin glargine, human recombinant analog	Toujeo SoloStar U-300 Insulin
insulin glargine, human recombinant analog insulin regular, human	Toujeo Max U-300 SoloStar Afrezza
insulin lispro	Admelog U-100 Insulin lispro
insulin lispro	Admelog SoloStar U-100 Insulin
insulin regular, human/insulin release unit	Exubera Combination Pack 12
insulin regular, human/insulin release unit	Exubera Combination Pack 15
Insulin Regular, Human/Insulin Release Unit/Chamber/Inhal	
insulin regular, human/insulin release unit	Exubera Nite  Exubera Patient Pack
insulin glargine, human recombinant analog	Lantus Solostar U-100 Insulin
insulin glargine,human recombinant analog	Lantus U-100 Insulin
insulin glulisine	Apidra U-100 Insulin
insulin glulisine	Apidra SoloStar U-100 Insulin
insulin NPH human isophane/insulin regular, human	Novolin 70/30 U-100 Insulin
insulin regular, human	Novolin R Regular U-100 Insuln
insulin NPH human isophane	Novolin N NPH U-100 Insulin
insulin regular, human buffered	Velosulin BR (rDNA)
insulin zinc human recombinant	Novolin L
insulin aspart	Novolog U-100 Insulin aspart
insulin aspart	Novolog FlexPen U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30 U-100 Insuln
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30FlexPen U-100
insulin regular, human	Novolin R InnoLet
insulin NPH human isophane	Novolin N InnoLet
insulin NPH human isophane/insulin regular, human	Novolin 70/30 InnoLet Insulin
insulin degludec	Tresiba FlexTouch U-200
insulin degludec	Tresiba FlexTouch U-100
insulin degludec	Tresiba U-100 Insulin
insulin degludec/liraglutide	Xultophy 100/3.6
insulin regular, human	Novolin R FlexPen
insulin NPH human isophane	Novolin N FlexPen
insulin NPH human isophane/insulin regular, human	Novolin 70-30 FlexPen U-100
insulin aspart (niacinamide)	Fiasp U-100 Insulin
insulin aspart (niacinamide)	Fiasp FlexTouch U-100 Insulin
insulin aspart (niacinamide)	Fiasp Penfill U-100 Insulin
insulin aspart	Novolog PenFill U-100 Insulin
insulin regular, human	Novolin R PenFill
insulin NPH human isophane	Novolin N PenFill
insulin NPH human isophane/insulin regular, human	Novolin 70/30 PenFill
insulin detemir	Levemir U-100 Insulin
insulin detemir	Levemir FlexTouch U-100 Insuln
insulin detemir	Levemir FlexPen
diluent,insulin aspart combination no.1	Diluting Medium for Novolog
insulin regular, human in 0.9 % sodium chloride	Myxredlin

cder\_mpl2p\_wp047 Page 512 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Appendix G. List of Generic and Brand Names of Medical Froducts Osed to Define Baseline Characteristics in this Request		
Generic Name	Brand Name	
insulin glargine,human recombinant analog	insulin glargine	
insulin regular,human buffered	Velosulin Human Br	
insulin glargine,human recombinant analog	Semglee U-100 Insulin	
insulin glargine,human recombinant analog	Semglee Pen U-100 Insulin	
insulin glargine-yfgn	Semglee(insulin glargine-yfgn)	
insulin glargine-yfgn	Semglee(insulin glarg-yfgn)Pen	
insulin glargine-yfgn	insulin glargine-yfgn	
insulin aspart	insulin aspart U-100	
insulin aspart protamine human/insulin aspart	insulin asp prt-insulin aspart	
insulin degludec	insulin degludec	
	nin (Biguanide)	
saxagliptin HCI/metformin HCI	Kombiglyze XR	
sitagliptin phosphate/metformin HCl	Janumet XR	
sitagliptin phosphate/metformin HCl	Janumet	
ertugliflozin pidolate/metformin HCl	Segluromet	
rosiglitazone maleate/metformin HCl	Avandamet	
metformin HCl	Glucophage	
metformin HCl	Glucophage XR	
glyburide/metformin HCl	Glucovance	
glipizide/metformin HCl	Metaglip	
metformin HCl	metformin	
pioglitazone HCI/metformin HCI	pioglitazone-metformin	
glyburide/metformin HCl	glyburide-metformin	
glipizide/metformin HCl	glipizide-metformin	
repaglinide/metformin HCl	Prandimet	
dapagliflozin propanediol/metformin HCl	Xigduo XR	
gabapentin	gabapentin	
linagliptin/metformin HCl	Jentadueto	
empagliflozin/metformin HCl	Synjardy	
linagliptin/metformin HCl	Jentadueto XR	
empagliflozin/linagliptin/metformin HCl	Trijardy XR	
metformin HCl	Riomet ER	
metformin HCl	Riomet	
metformin HCl	Glumetza	
pioglitazone HCI/metformin HCI	Actoplus MET	
alogliptin benzoate/metformin HCl	alogliptin-metformin	
butalbital/aspirin/caffeine	butalbital-aspirin-caffeine	
canagliflozin/metformin HCl	Invokamet	
canagliflozin/metformin HCl	Invokamet XR	
metformin HCl	Fortamet	
pioglitazone HCI/metformin HCI	Actoplus Met XR	
alogliptin benzoate/metformin HCl	Kazano	
repaglinide/metformin HCl	repaglinide-metformin	
metformin/caffeine/amino acids 7/herbal comb 125/choline k Appformin		
metformin/amino acids no.7/herbal cmb.125/choline bitartra Appformin-D		
Culton		

Sulfonylureas

Page 513 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
rosiglitazone maleate/glimepiride	Avandaryl
tolazamide	Tolinase
glyburide	Micronase
glyburide,micronized	Glynase
glyburide	Diabeta
glimepiride	Amaryl
glipizide	Glucotrol XL
glipizide	Glucotrol
chlorpropamide	Diabinese
glyburide/metformin HCl	Glucovance
glipizide/metformin HCl	Metaglip
glyburide/metformin HCl	glyburide-metformin
glimepiride	glimepiride
glipizide/metformin HCl	glipizide-metformin
glyburide,micronized	glyburide micronized
glyburide	glyburide
tolazamide	tolazamide
glipizide	glipizide
chlorpropamide	chlorpropamide
tolbutamide	tolbutamide
acetohexamide	acetohexamide
pioglitazone HCl/glimepiride	pioglitazone-glimepiride
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
naproxen sodium	naproxen sodium
pramipexole di-HCl	pramipexole
buspirone HCl	buspirone
pioglitazone HCl/glimepiride	DUETACT
glyburide,micronized	Glycron
Other Diabetes	Medications
dulaglutide	Trulicity
dapagliflozin propanediol	Farxiga
saxagliptin HCl	Onglyza
saxagliptin HCI/metformin HCI	Kombiglyze XR
sitagliptin phosphate/metformin HCl	Janumet XR
sitagliptin phosphate	Januvia
sitagliptin phosphate/simvastatin	Juvisync
sitagliptin phosphate/metformin HCl	Janumet
ertugliflozin pidolate	Steglatro
ertugliflozin pidolate/metformin HCl	Segluromet
rosiglitazone maleate/glimepiride	Avandaryl
rosiglitazone maleate/metformin HCl	Avandamet
miglitol	Glyset
lixisenatide	Adlyxin
insulin glargine, human recombinant analog/lixisenatide	Soliqua 100/33
acarbose	Precose
rosiglitazone maleate	Avandia

cder\_mpl2p\_wp047 Page 514 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
acarbose	acarbose
nateglinide	Starlix
pioglitazone HCl	pioglitazone
pioglitazone HCI/metformin HCI	pioglitazone-metformin
repaglinide	Prandin
repaglinide/metformin HCl	Prandimet
liraglutide	Saxenda
insulin degludec/liraglutide	Xultophy 100/3.6
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
semaglutide	Ozempic
semaglutide	Rybelsus
semaglutide	Wegovy
albiglutide	Tanzeum
dapagliflozin propanediol/metformin HCl	Xigduo XR
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon BCise
pramlintide acetate	SymlinPen 60
pramlintide acetate	SymlinPen 120
repaglinide	repaglinide
nateglinide	nateglinide
linagliptin	Tradjenta
linagliptin/metformin HCl	Jentadueto
empagliflozin	Jardiance
empagliflozin/metformin HCl	Synjardy
empagliflozin/linagliptin	Glyxambi
linagliptin/metformin HCl	Jentadueto XR
empagliflozin/metformin HCl	Synjardy XR
pioglitazone HCl/glimepiride	pioglitazone-glimepiride
phosphorated carbohydrate (dextrose and fructose)	Especol
pioglitazone HCl	Actos
phosphorated carbohydrate (dextrose and fructose)	Anti-Nausea
pioglitazone HCI/metformin HCI	Actoplus MET
pramlintide acetate	Symlin
alogliptin benzoate	alogliptin
alogliptin benzoate/metformin HCl	alogliptin-metformin
alogliptin benzoate/pioglitazone HCl	alogliptin-pioglitazone
canagliflozin	Invokana
canagliflozin/metformin HCl	Invokamet
canagliflozin/metformin HCl	Invokamet XR
phosphorated carbohydrate (dextrose and fructose)	Emetrol
miglitol	miglitol
alogliptin benzoate/pioglitazone HCl	Oseni
alogliptin benzoate	Nesina

cder\_mpl2p\_wp047 Page 515 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
pioglitazone HCI/glimepiride	DUETACT
pioglitazone HCl/metformin HCl	Actoplus Met XR
alogliptin benzoate/metformin HCl	Kazano
repaglinide/metformin HCl	repaglinide-metformin
mifepristone	Korlym
Angiotensin-converting enzyme inhibitors (A	CEI)/Angiotensin receptor blockers (ARBs)
captopril/hydrochlorothiazide	Capozide
captopril	Capoten
enalapril maleate	Vasotec
lisinopril	Prinivil
lisinopril/hydrochlorothiazide	Prinzide
enalapril maleate/hydrochlorothiazide	Vaseretic
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium	Cozaar
nebivolol HCI/valsartan	Byvalson
irbesartan	Avapro
irbesartan/hydrochlorothiazide	Avalide
perindopril erbumine	Aceon
trandolapril	Mavik
trandolapril/verapamil HCl	Tarka
eprosartan mesylate	Teveten
ramipril	ramipril
perindopril erbumine	perindopril erbumine
losartan potassium	losartan
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
irbesartan	irbesartan
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
telmisartan	telmisartan
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl	Accupril
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
valsartan/hydrochlorothiazide	Diovan HCT
valsartan	Diovan
amlodipine besylate/benazepril HCl	Lotrel
benazepril HCl	Lotensin
benazepril HCl/hydrochlorothiazide	Lotensin HCT
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
aliskiren/valsartan	Valturna
sacubitril/valsartan	Entresto
fosinopril sodium	Monopril
fosinopril sodium/hydrochlorothiazide	Monopril HCT
moexipril HCl	Univasc
moexipril HCl/hydrochlorothiazide	Uniretic
moexipril HCl	moexipril

cder\_mpl2p\_wp047 Page 516 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name	
enalapril maleate	enalapril maleate	
captopril	captopril	
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide	
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide	
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide	
quinapril HCl	quinapril	
lisinopril	lisinopril	
olmesartan medoxomil/amlodipine besylate/hydrochloroth	nia: olmesartan-amlodipin-hcthiazid	
benazepril HCl	benazepril	
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide	
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan	
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid	
fosinopril sodium	fosinopril	
trandolapril	trandolapril	
amlodipine besylate/benazepril HCl	amlodipine-benazepril	
valsartan	valsartan	
olmesartan medoxomil	olmesartan	
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide	
amlodipine besylate/valsartan	amlodipine-valsartan	
enalaprilat dihydrate	enalaprilat	
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide	
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide	
enalapril maleate/felodipine	Lexxel	
candesartan cilexetil	Atacand	
candesartan cilexetil/hydrochlorothiazide	Atacand HCT	
lisinopril	Zestril	
ramipril	Altace	
lisinopril/hydrochlorothiazide	Zestoretic	
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide	
telmisartan/amlodipine besylate	telmisartan-amlodipine	
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid	
candesartan cilexetil	candesartan	
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide	
eprosartan mesylate	eprosartan	
telmisartan	Micardis	
telmisartan/hydrochlorothiazide	Micardis HCT	
telmisartan/amlodipine besylate	Twynsta	
olmesartan medoxomil	Benicar	
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT	
amlodipine besylate/olmesartan medoxomil	Azor	
olmesartan medoxomil/amlodipine besylate/hydrochloroth	nia: Tribenzor	
isosorbide dinitrate	isosorbide dinitrate	
trandolapril/verapamil HCl	trandolapril-verapamil	
quinapril HCI/hydrochlorothiazide	Quinaretic	
enalapril maleate	Epaned	

cder\_mpl2p\_wp047 Page 517 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Consulta Nama	Duand Name
Generic Name	Brand Name
lisinopril	Qbrelis Edadei
azilsartan medoxomil	Edarbi
azilsartan medoxomil/chlorthalidone	Edarbyclor
perindopril arginine/amlodipine besylate	Prestalia
lisinopril/dietary supplement,comb.10	Lytensopril
lisinopril/dietary supplement,comb.10	Lytensopril-90
	Antiarrhythmics
quinidine gluconate	quinidine gluconate
procainamide HCl	Pronestyl
procainamide HCl	Pronestyl-SR
amiodarone HCl	Cordarone
butilide fumarate	Corvert
dronedarone HCl	Multaq
verapamil HCl	Calan
disopyramide phosphate	Norpace CR
disopyramide phosphate	Norpace
quinidine sulfate	Quinidex Extentabs
propafenone HCl	Rythmol
flecainide acetate	flecainide
mexiletine HCl	mexiletine
dofetilide	Tikosyn
verapamil HCl	verapamil
diltiazem HCl	diltiazem HCl
flecainide acetate	Tambocor
sotalol HCl	sotalol
disopyramide phosphate	disopyramide phosphate
sotalol HCl	Sotalol AF
procainamide HCl	procainamide
amiodarone HCl	amiodarone
quinidine sulfate	quinidine sulfate
phenytoin sodium	phenytoin sodium
propafenone HCl	Rythmol SR
lidocaine HCI/PF	Xylocaine (Cardiac) (PF)
tocainide HCl	Tonocard
sotalol HCl	Sorine
amiodarone HCl	Pacerone
mexiletine HCl	Mexitil
lidocaine HCl in dextrose 5% in water/PF	lidocaine in 5 % dextrose (PF)
propafenone HCl	propafenone
lidocaine HCI/PF	lidocaine (PF)
adenosine	Adenocard
ibutilide fumarate	ibutilide fumarate
esmolol HCl	esmolol
adenosine	adenosine
dofetilide	dofetilide
esmolol HCl in sodium chloride, iso-osmotic	Brevibloc in NaCl (iso-osm)

cder\_mpl2p\_wp047 Page 518 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
esmolol HCl	Brevibloc
sotalol HCl	Sotylize
esmolol HCl in sodium chloride, iso-osmotic	esmolol in NaCl (iso-osm)
idocaine HCl in sodium chloride, iso-osmotic/PF	lidocaine in NaCl,iso-osmo(PF)
amiodarone HCI/dextrose 5 % in water	amiodarone in dextrose 5 %
amiodarone in dextrose, iso-osmotic	Nexterone
esmolol HCl in sterile water	esmolol in sterile water
quinidine sulfate	quinidine sulfate (bulk)
quinidine gluconate	Quinaglute Dura-Tabs
sotalol HCl	Betapace
sotalol HCl	Betapace AF
adenosine in 0.9 % sodium chloride	adenosine in 0.9 % sod chlor
adenosine triphosphate	ATP
moricizine HCl	Ethmozine
procainamide HCl	Procanbid
bretylium tosylate	bretylium tosylate
	lant (injectable)
neparin sodium,porcine	heparin (porcine)
fondaparinux sodium	Arixtra
argatroban	argatroban
neparin sodium,bovine	heparin (bovine)
dalteparin sodium, porcine	Fragmin
neparin sodium,porcine/PF	heparin, porcine (PF)
neparin sodium,porcine	heparin lock flush (porcine)
neparin sodium,porcine IN 0.9 % sodium chloride/PF	heparin (porcine) in NaCl (PF)
neparin sodium,porcine in 0.45 % sodium chloride	heparin(porcine) in 0.45% NaCl
heparin sodium,porcine/dextrose 5 % in water	heparin (porcine) in 5 % dex
enoxaparin sodium	Lovenox
argatroban in 0.9 % sodium chloride	argatroban in 0.9 % sod chlor
desirudin	Iprivask
neparin sodium,porcine in 0.9 % sodium chloride	heparin (porcine) in 0.9% NaCl
pivalirudin in 0.9 % sodium chloride	bivalirudin-0.9 % sodium chlor
pivalirudin	bivalirudin
enoxaparin sodium	enoxaparin
varfarin sodium	Coumadin
argatroban in sodium chloride, iso-osmotic	argatroban in NaCL (iso-os)
ondaparinux sodium Divalirudin	fondaparinux
	Angiomax
neparin sodium,porcine/dextrose 5 % in water/PF	heparin (porcine) in D5W (PF)
inzaparin sodium,porcine	Innohep
epirudin,recombinant	Refludan
heparin sodium,porcine/PF	Heparin LockFlush(Porcine)(PF)
	-platelets
orasugrel HCl	Effient
abciximab	Reopro
ticlopidine HCl	Ticlid

cder\_mpl2p\_wp047 Page 519 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
vorapaxar sulfate	Zontivity
clopidogrel bisulfate	Plavix
cilostazol	cilostazol
dipyridamole	dipyridamole
aspirin/dipyridamole	aspirin-dipyridamole
eptifibatide	Integrilin
ticlopidine HCl	ticlopidine
clopidogrel bisulfate	clopidogrel
aspirin	aspirin
aspirin	Ecotrin
aspirin	Ecotrin Low Strength
anagrelide HCl	anagrelide
aspirin	Genacote
aspirin	Children's Aspirin
ticagrelor	Brilinta
aspirin	Bayer Aspirin
aspirin	Bayer Chewable Aspirin
aspirin	Bayer Low Dose Aspirin
aspirin/calcium carbonate	Women's Aspirin with Calcium
eptifibatide	eptifibatide
prasugrel HCl	prasugrel
aspirin	EC Aspirin
aspirin	St. Joseph Aspirin
aspirin	St. Joseph Low-Dose Aspirin
aspirin/dipyridamole	Aggrenox
dipyridamole	Persantine
aspirin	Aspir-Low
cangrelor tetrasodium	Kengreal
aspirin	Aspirin Childrens
aspirin	Enteric Coated Aspirin
aspirin	Stanback Headache Powder
aspirin	Aspir-Trin
aspirin	Extra Strength Bayer
aspirin	Bayer Advanced
aspirin	St Joseph Aspirin
aspirin	Aspirin Extra Strength
aspirin	AsperDrink
aspirin	Lite Coat Aspirin
tirofiban HCl monohydrate	Aggrastat Concentrate
tirofiban HCl monohydrate in 0.9 % sodium chloride	Aggrastat in sodium chloride
aspirin	Lo-Dose Aspirin
aspirin	Aspirin Low-Strength
aspirin	Adult Low Dose Aspirin
aspirin	Miniprin
	·
aspirin	Child Aspirin

cder\_mpl2p\_wp047 Page 520 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Ganaria Nama	Prand Namo
Generic Name	Brand Name Halfprin
aspirin	·
anagrelide HCl	Agrylin
cilostazol	Pletal
aspirin	Baby Aspirin
dipyridamole 	Dipradam
aspirin	Durlaza
espirin	Aspir-81
aspirin	E.C. Prin
acetaminophen	acetaminophen
aspirin/omeprazole	Yosprala
aspirin/omeprazole	aspirin-omeprazole
aspirin	Adult Aspirin Regimen
aspirin	Vazalore
В	eta-blockers
nadolol	Corgard
oisoprolol fumarate/hydrochlorothiazide	Ziac
oisoprolol fumarate	Zebeta
imolol maleate	Blocadren
imolol maleate/hydrochlorothiazide	Timolide
arvedilol phosphate	Coreg CR
carvedilol	Coreg
acebutolol HCl	Sectral
petaxolol HCl	Kerlone
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
metoprolol tartrate	Lopressor
propranolol HCl	Inderal
propranolol HCl	Inderal LA
propranolol HCl/hydrochlorothiazide	Inderide
propranolol HCl	propranolol
carteolol HCl	Cartrol
penbutolol sulfate	Levatol
carvedilol	carvedilol
metoprolol tartrate	metoprolol tartrate
atenolol	atenolol
otalol HCl	sotalol
pisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
nadolol	nadolol
pisoprolol fumarate	bisoprolol fumarate
sotalol HCl	Sotalol AF
nadolol/bendroflumethiazide	nadolol-bendroflumethiazide
abetalol HCl	labetalol
abetalol HCl in sodium chloride, iso-osmotic	labetalol in NaCl (iso-osmot)
abetalol HCl in dextrose, iso-osmotic	labetalol in dextrose,iso-osm
pindolol	pindolol
abetalol HCl	Trandate
propranolol HCl	InnoPran XL

cder\_mpl2p\_wp047 Page 521 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
metoprolol succinate	metoprolol succinate
metoprolol succinate	Toprol XL
propranolol HCI/hydrochlorothiazide	propranolol-hydrochlorothiazid
sotalol HCl	Sorine
atenolol	Tenormin
atenolol/chlorthalidone	Tenoretic 50
atenolol/chlorthalidone	Tenoretic 100
metoprolol succinate/hydrochlorothiazide	Dutoprol
timolol maleate	timolol maleate
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
acebutolol HCl	acebutolol
atenolol/chlorthalidone	atenolol-chlorthalidone
nebivolol HCl	Bystolic
esmolol HCl	esmolol
nebivolol HCl	nebivolol
esmolol HCl in sodium chloride, iso-osmotic	Brevibloc in NaCl (iso-osm)
esmolol HCl	Brevibloc
betaxolol HCl	betaxolol
metoprolol succinate	Kapspargo Sprinkle
carvedilol phosphate	carvedilol phosphate
sotalol HCl	Sotylize
esmolol HCl in sodium chloride, iso-osmotic	esmolol in NaCl (iso-osm)
esmolol HCl in sterile water	esmolol in sterile water
sotalol HCl	Betapace
sotalol HCl	Betapace AF
labetalol HCl	Normodyne
nadolol/bendroflumethiazide	Corzide
pindolol	Visken
levetiracetam	Keppra
pravastatin sodium	pravastatin
labetalol in dextrose 5 % in water	labetalol in dextrose 5 %
propranolol HCl	Inderal XL
propranolol HCl	Hemangeol
metoprolol tartrate/dietary supplement,comb.10	Hypertensolol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz
Calcium chann	nel blockers
nicardipine HCl	Cardene SR
nicardipine HCl	Cardene
verapamil HCl	Calan
verapamil HCl	Calan SR
verapamil HCl	Covera-HS
nimodipine	Nimotop
nifedipine	Adalat CC
verapamil HCl	Isoptin SR
bepridil HCl	Vascor
trandolapril/verapamil HCl	Tarka

cder\_mpl2p\_wp047 Page 522 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
amlodipine besylate	amlodipine
amlodipine besylate	Norvasc
amlodipine besylate/atorvastatin calcium	Caduet
nifedipine	Procardia
nifedipine	Procardia XL
verapamil HCl	verapamil
diltiazem HCl	diltiazem HCl
diltiazem HCl	Cardizem LA
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
aliskiren hemifumarate/amlodipine besylate	Tekamlo
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
diltiazem HCl	Cardizem
diltiazem HCl	Cardizem SR
diltiazem HCl	Cardizem CD
verapamil HCl	Verelan
verapamil HCl	Verelan PM
nicardipine HCl	nicardipine
nifedipine	Nifedical XL
nifedipine	Nifediac CC
nifedipine	nifedipine
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/valsartan	amlodipine-valsartan
nicardipine in sodium chloride, iso-osmotic	nicardipine in NaCl (iso-os)
isradipine	DynaCirc CR
enalapril maleate/felodipine	Lexxel
felodipine	Plendil
diltiazem HCl	Tiazac
nisoldipine	Sular
telmisartan/amlodipine besylate	telmisartan-amlodipine
nisoldipine	nisoldipine
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
felodipine	felodipine
diltiazem HCl	Cartia XT
diltiazem HCl	Diltia XT
nimodipine	nimodipine
nifedipine	Afeditab CR
telmisartan/amlodipine besylate	Twynsta
nicardipine in sodium chloride, iso-osmotic	Cardene IV in sodium chloride
nicardipine in dextrose, iso-osmotic	Cardene IV in dextrose
clevidipine butyrate	Cleviprex
diltiazem HCI/dextrose 5 % in water	diltiazem in dextrose 5 %
isradipine	isradipine

cder\_mpl2p\_wp047 Page 523 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
nimodipine	Nymalize
nicardipine HCl	Cardene IV
levamlodipine maleate	levamlodipine
nicardipine HCl in 0.9 % sodium chloride	nicardipine in 0.9 % sod chlor
amlodipine besylate	Norliqva
trandolapril/verapamil HCl	trandolapril-verapamil
diltiazem HCl	Dilacor XR
diltiazem HCl	Matzim LA
amlodipine benzoate	Katerzia
isradipine	DynaCirc
amlodipine besylate/olmesartan medoxomil	Azor
diltiazem HCl	DILT-XR
fosinopril sodium	fosinopril
diltiazem HCl	DILT-CD
diltiazem HCl	Diltzac ER
diltiazem HCl	Taztia XT
diltiazem HCl in 0.9 % sodium chloride	diltiazem HCl in 0.9% NaCl
nicardipine in 5 % dextrose in water	nicardipine in 5 % dextrose
perindopril arginine/amlodipine besylate	Prestalia
olmesartan medoxomil/amlodipine besylate/hydrochlo	
levamlodipine maleate	Conjupri
diltiazem HCl	Tiadylt ER
	Consensi
amlodipine besylate/celecoxib	Digoxin
digoxin	digoxin
digoxin	Lanoxin
digoxin	Lanoxin Pediatric
digoxin	Lanoxicaps
digoxin	Digitek
digoxin	Digox
_	rretics - Loop
bumetanide	Bumex
torsemide	Demadex
ethacrynic acid	Edecrin
furosemide	Lasix
torsemide	torsemide
ethacrynic acid	ethacrynic acid
furosemide	furosemide
bumetanide	bumetanide
furosemide in 0.9 % sodium chloride	furosemide in 0.9 % NaCl
ethacrynate sodium	Sodium Edecrin
ethacrynate sodium	ethacrynate sodium
furosemide/dextrose 5 % in water	furosemide in dextrose 5 %
furosemide	Furoscix
torsemide	Soaanz
Diuretics - Potassium sparing	

cder\_mpl2p\_wp047 Page 524 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request	
Generic Name	Brand Name
amiloride HCl	Midamor
amiloride HCI/hydrochlorothiazide	Moduretic
triamterene/hydrochlorothiazide	Dyazide
spironolactone	Aldactone
spironolactone/hydrochlorothiazide	Aldactazide
eplerenone	Inspra
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
eplerenone	eplerenone
spironolactone	spironolactone
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
amiloride HCI/hydrochlorothiazide	amiloride-hydrochlorothiazide
amiloride HCl	amiloride
spironolactone	CaroSpir
triamterene	triamterene
triamterene	Dyrenium
metoprolol tartrate	metoprolol tartrate
	Diuretics - Thiazide
captopril/hydrochlorothiazide	Capozide
bendroflumethiazide	Naturetin
bisoprolol fumarate/hydrochlorothiazide	Ziac
hydrochlorothiazide	HydroDiuril
timolol maleate/hydrochlorothiazide	Timolida

timolol maleate/hydrochlorothiazide Timolide lisinopril/hydrochlorothiazide Prinzide enalapril maleate/hydrochlorothiazide Vaseretic chlorothiazide Diuril methyldopa/hydrochlorothiazide Aldoril-15 methyldopa/hydrochlorothiazide Aldoril-25 methyldopa/chlorothiazide Aldoclor methyldopa/hydrochlorothiazide Aldoril D30 losartan potassium/hydrochlorothiazide Hyzaar amiloride HCI/hydrochlorothiazide Moduretic triamterene/hydrochlorothiazide Dvazide irbesartan/hydrochlorothiazide Avalide spironolactone/hydrochlorothiazide Aldactazide metoprolol tartrate/hydrochlorothiazide **Lopressor HCT** methyclothiazide Aquatensen propranolol HCI/hydrochlorothiazide Inderide

losartan potassium/hydrochlorothiazide losartan-hydrochlorothiazide irbesartan/hydrochlorothiazide irbesartan-hydrochlorothiazide telmisartan/hydrochlorothiazide telmisartan-hydrochlorothiazid

hydrochlorothiazide hydrochlorothiazide

polythiazide Renese prazosin HCI/polythiazide Minizide quinapril HCl/hydrochlorothiazide Accuretic

Page 525 of 702 cder\_mpl2p\_wp047



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
methyclothiazide	Enduron
deserpidine/methyclothiazide	Enduronyl
deserpidine/methyclothiazide	Enduronyl Forte
hydrochlorothiazide	Oretic
indapamide	Lozol
valsartan/hydrochlorothiazide	Diovan HCT
benazepril HCl/hydrochlorothiazide	Lotensin HCT
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
fosinopril sodium/hydrochlorothiazide	Monopril HCT Uniretic
moexipril HCl/hydrochlorothiazide	
indapamide	indapamide captopril-hydrochlorothiazide
captopril/hydrochlorothiazide lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
metolazone	metolazone
nadolol/bendroflumethiazide	nadolol-bendroflumethiazide
chlorothiazide	chlorothiazide
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
propranolol HCl/hydrochlorothiazide	propranolol-hydrochlorothiazid
lisinopril/hydrochlorothiazide	Zestoretic
atenolol/chlorthalidone	Tenoretic 50
atenolol/chlorthalidone	Tenoretic 100
metoprolol succinate/hydrochlorothiazide	Dutoprol
clonidine HCl/chlorthalidone	Clorpres
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
methyclothiazide	methyclothiazide
chlorthalidone	chlorthalidone
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
amiloride HCI/hydrochlorothiazide	amiloride-hydrochlorothiazide
atenolol/chlorthalidone	atenolol-chlorthalidone
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide

cder\_mpl2p\_wp047 Page 526 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
chlorothiazide sodium	chlorothiazide sodium
telmisartan/hydrochlorothiazide	Micardis HCT
hydralazine HCl/reserpine/hydrochlorothiazide	Uni-Serp
isosorbide dinitrate/hydralazine HCl	BiDil
hydralazine HCI/hydrochlorothiazide	Hydra-Zide
hydralazine HCl/hydrochlorothiazide	hydralazine-hydrochlorothiazid
quinapril HCl/hydrochlorothiazide	Quinaretic
hydrochlorothiazide	Microzide
metolazone	Zaroxolyn
metolazone	Mykrox
nadolol/bendroflumethiazide	Corzide
reserpine/hydrochlorothiazide	reserpine-hydrochlorothiazide
hydralazine HCI/reserpine/hydrochlorothiazide	hydralazine-reserpin-hcthiazid
metoprolol tartrate	metoprolol tartrate
spironolactone	spironolactone
azilsartan medoxomil/chlorthalidone	Edarbyclor
chlorthalidone	Thalitone
chlorothiazide sodium	Diuril IV
	Nitrates
isosorbide mononitrate	Ismo
isosorbide dinitrate	Isordil Titradose

isosorbide dinitrate Isordil Titradose

isosorbide dinitrate Isordil nitroglycerin Nitrostat isosorbide mononitrate **Imdur** nitroglycerin Nitro-Dur nitroglycerin Minitran nitroglycerin nitroglycerin isosorbide dinitrate Dilatrate-SR isosorbide mononitrate Monoket

isosorbide mononitrate isosorbide mononitrate isosorbide dinitrate isosorbide dinitrate

nitroglycerin Nitro-Bid nitroglycerin Nitrol

nitroglycerin in 5 % dextrose in water nitroglycerin in 5 % dextrose

isosorbide dinitrate **ISOCHRON** nitroglycerin **Nitrogard** nitroglycerin Nitroglyn isosorbide dinitrate/hydralazine HCl BiDil

nitroglycerin Nitrolingual nitroglycerin **Nitromist** nitroglycerin GoNitro amyl nitrite amyl nitrite nitroglycerin Rectiv nitroglycerin Nitro-Time isosorbide dinitrate IsoDitrate nitroglycerin NitroTab

Page 527 of 702 cder\_mpl2p\_wp047



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
nitroglycerin	NitroQuick
nitroglycerin	Nitronal
nitroglycerin	Nitrek
meloxicam	meloxicam
Sta	tins
pitavastatin calcium	Livalo
pravastatin sodium	Pravachol
aspirin (calcium carb & magnesium buffers)/pravastatin	PRAVIGARD PAC
sitagliptin phosphate/simvastatin	Juvisync
simvastatin	Zocor
lovastatin	Mevacor
amlodipine besylate/atorvastatin calcium	Caduet
atorvastatin calcium	Lipitor
niacin/lovastatin	Advicor
niacin/simvastatin	Simcor
fluvastatin sodium	Lescol
fluvastatin sodium	Lescol XL
lovastatin	lovastatin
pravastatin sodium	pravastatin
atorvastatin calcium	atorvastatin
simvastatin	simvastatin
fluvastatin sodium	fluvastatin
rosuvastatin calcium	rosuvastatin
ezetimibe/simvastatin	ezetimibe-simvastatin
rosuvastatin calcium	Crestor
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
ezetimibe/simvastatin	Vytorin 10-40
ezetimibe/simvastatin	Vytorin 10-20
ezetimibe/simvastatin	Vytorin 10-10
ezetimibe/simvastatin	Vytorin 10-80
pitavastatin magnesium	Zypitamag
simvastatin	FloLipid
rosuvastatin calcium	Ezallor Sprinkle
lovastatin	Altoprev
nefazodone HCl	nefazodone
lovastatin	Altocor
ezetimibe/atorvastatin calcium	Liptruzet
ezetimibe/rosuvastatin calcium	Roszet
ezetimibe/rosuvastatin calcium	ezetimibe-rosuvastatin
Fibr	
gemfibrozil	gemfibrozil
gemfibrozil	Lopid
fenofibric acid (choline)	Trilipix
fenofibrate nanocrystallized	Tricor
fenofibrate,micronized	Tricor
fenofibrate nanocrystallized	fenofibrate nanocrystallized

cder\_mpl2p\_wp047 Page 528 of 702



Appendix G. List of Generic and Brand Names of Medical Products Used to Define Baseline Characteristics in this Request

Generic Name	Brand Name
fenofibrate,micronized	fenofibrate micronized
fenofibric acid (choline)	fenofibric acid (choline)
fenofibrate	fenofibrate
fenofibric acid	Fibricor
fenofibrate,micronized	Antara
fenofibrate	Fenoglide
fenofibric acid	fenofibric acid
fenofibrate,micronized	Lofibra
fenofibrate nanocrystallized	Triglide
fenofibrate	Lofibra
fenofibrate	Lipofen
	Amiodarone
amiodarone HCl	Cordarone
amiodarone HCl	amiodarone
amiodarone HCl	Pacerone
amiodarone HCI/dextrose 5 % in water	amiodarone in dextrose 5 %
amiodarone in dextrose, iso-osmotic	Nexterone
	Dronedarone
dronedarone HCl	Multaq

cder\_mpl2p\_wp047 Page 529 of 702



		Code	Code
Code	Description	Type	Category
	Diabetes		
250	Diabetes mellitus	DX	ICD-9-CM
250.0	Diabetes mellitus without mention of complication	DX	ICD-9-CM
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.1	Diabetes with ketoacidosis	DX	ICD-9-CM
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.2	Diabetes with hyperosmolarity	DX	ICD-9-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.3	Diabetes with other coma	DX	ICD-9-CM
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.4	Diabetes with renal manifestations	DX	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.5	Diabetes with ophthalmic manifestations	DX	ICD-9-CM
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.6	Diabetes with neurological manifestations	DX	ICD-9-CM
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.7	Diabetes with peripheral circulatory disorders	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 530 of 702



	Characteristics in this Request	Code	Code
Code	Description	Туре	Category
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as	DX	ICD-9-CM
	uncontrolled		
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as	DX	ICD-9-CM
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.8	Diabetes with other specified manifestations	DX	ICD-9-CM
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	DX	ICD-9-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as	DX	ICD-9-CM
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	DX	ICD-9-CM
250.9	Diabetes with unspecified complication	DX	ICD-9-CM
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as	DX	ICD-9-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	DX	ICD-9-CM
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	DX	ICD-9-CM
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	DX	ICD-9-CM
A5500	For diabetics only, fitting (including follow-up), custom preparation and supply of off-the- shelf depth-inlay shoe manufactured to accommodate multidensity insert(s), per shoe	PX	HCPCS
A5501	For diabetics only, fitting (including follow-up), custom preparation and supply of shoe molded from cast(s) of patient's foot (custom molded shoe), per shoe	PX	HCPCS
A5503	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom	PX	HCPCS
A3303	molded shoe with roller or rigid rocker bottom, per shoe	1 /	rici es
A5504	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom	PX	HCPCS
713304	molded shoe with wedge(s), per shoe	170	1101 05
A5505	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom	PX	HCPCS
, 13303	molded shoe with metatarsal bar, per shoe		1101 00
A5506	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom	PX	HCPCS
	molded shoe with off-set heel(s), per shoe		
A5507	For diabetics only, not otherwise specified modification (including fitting) of off-the-shelf	PX	HCPCS
	depth-inlay shoe or custom molded shoe, per shoe		
A5508	For diabetics only, deluxe feature of off-the-shelf depth-inlay shoe or custom molded shoe,	PX	HCPCS
	per shoe		
A5510	For diabetics only, direct formed, compression molded to patient's foot without external heat	PX	HCPCS
	source, multiple-density insert(s) prefabricated, per shoe		
A5512	For diabetics only, multiple density insert, direct formed, molded to foot after external heat	PX	HCPCS
	source of 230 degrees Fahrenheit or higher, total contact with patient's foot, including arch,		
	base layer minimum of 1/4 inch material of Shore A 35 durometer or 3/16 inch material of		
	Shore A 40 durometer (or higher), prefabricated, each		
A5513	For diabetics only, multiple density insert, custom molded from model of patient's foot, total	PX	HCPCS
	contact with patient's foot, including arch, base layer minimum of 3/16 inch material of Shore		
	A 35 durometer (or higher), includes arch filler and other shaping material, custom		
	fabricated, each		
G0108	Diabetes outpatient self-management training services, individual, per 30 minutes	PX	HCPCS

cder\_mpl2p\_wp047 Page 531 of 702



	Linaracteristics in this Request	Code	Code
Code	Description	Type	Category
G0109	Diabetes outpatient self-management training services, group session (2 or more), per 30 minutes	PX	HCPCS
G0245	Initial physician evaluation and management of a diabetic patient with diabetic sensory neuropathy resulting in a loss of protective sensation (LOPS) which must include: (1) the diagnosis of LOPS, (2) a patient history, (3) a physical examination that consists of at least the following elements: (a) visual inspection of the forefoot, hindfoot, and toe web spaces, (b) evaluation of a protective sensation, (c) evaluation of foot structure and biomechanics, (d) evaluation of vascular status and skin integrity, and (e) evaluation and recommendation of footwear, and (4) patient education	PX	HCPCS
G0246	Follow-up physician evaluation and management of a diabetic patient with diabetic sensory neuropathy resulting in a loss of protective sensation (LOPS) to include at least the following: (1) a patient history, (2) a physical examination that includes: (a) visual inspection of the forefoot, hindfoot, and toe web spaces, (b) evaluation of protective sensation, (c) evaluation of foot structure and biomechanics, (d) evaluation of vascular status and skin integrity, and (e) evaluation and recommendation of footwear, and (3) patient education	PX	HCPCS
G0247	Routine foot care by a physician of a diabetic patient with diabetic sensory neuropathy resulting in a loss of protective sensation (LOPS) to include the local care of superficial wounds (i.e., superficial to muscle and fascia) and at least the following, if present: (1) local care of superficial wounds, (2) debridement of corns and calluses, and (3) trimming and debridement of nails	PX	HCPCS
G8015	Diabetic patient with most recent hemoglobin A1c level (within the last 6 months) documented as greater than 9%	PX	HCPCS
G8016	Diabetic patient with most recent hemoglobin A1c level (within the last 6 months) documented as less than or equal to 9%	PX	HCPCS
G8017	Clinician documented that diabetic patient was not eligible candidate for hemoglobin A1c measure	PX	HCPCS
G8018	Clinician has not provided care for the diabetic patient for the required time for hemoglobin A1c measure (6 months)	PX	HCPCS
G8019	Diabetic patient with most recent low-density lipoprotein (within the last 12 months) documented as greater than or equal to 100 mg/dl	PX	HCPCS
G8020	Diabetic patient with most recent low-density lipoprotein (within the last 12 months) documented as less than 100 mg/dl	PX	HCPCS
G8021	Clinician documented that diabetic patient was not eligible candidate for low-density lipoprotein measure	PX	HCPCS
G8022	Clinician has not provided care for the diabetic patient for the required time for low-density lipoprotein measure (12 months)	PX	HCPCS
G8023	Diabetic patient with most recent blood pressure (within the last 6 months) documented as equal to or greater than 140 systolic or equal to or greater than 80 mm Hg diastolic	PX	HCPCS
G8024	Diabetic patient with most recent blood pressure (within the last 6 months) documented as less than 140 systolic and less than 80 diastolic	PX	HCPCS
G8025	Clinician documented that the diabetic patient was not eligible candidate for blood pressure measure	PX	HCPCS

cder\_mpl2p\_wp047 Page 532 of 702



	naracteristics in this Request	Code	Code
Code	Description	Type	Category
G8026	Clinician has not provided care for the diabetic patient for the required time for blood	PX	HCPCS
	pressure measure (within the last 6 months)		
G8332	Clinician has not provided care for the diabetic retinopathy patient for the required time for	PX	HCPCS
	macular edema and retinopathy measurement		
G8333	Patient documented to have had findings of macular or fundus exam communicated to the	PX	HCPCS
	physician managing the diabetes care		
G8334	Documentation of findings of macular or fundus exam not communicated to the physician	PX	HCPCS
	managing the patient's ongoing diabetes care		
G8335	Clinician documentation that patient was not an eligible candidate for the findings of their	PX	HCPCS
	macular or fundus exam being communicated to the physician managing their diabetes care		
	during the reporting year		
G8336	Clinician has not provided care for the diabetic retinopathy patient for the required time for	PX	HCPCS
	physician communication measurement		
G8385	Diabetic patients with no documentation of hemoglobin A1c level (within the last 12 months)	PX	HCPCS
G8386	Diabetic patients with no documentation of low-density lipoprotein (within the last 12	PX	HCPCS
	months)		
G8390	Diabetic patients with no documentation of blood pressure measurement (within the last 12	PX	HCPCS
	months)		
E11.9	Type 2 diabetes mellitus without complications	DX	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	DX	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	DX	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	DX	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	DX	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	DX	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	DX	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-	DX	ICD-10-CM
	hyperosmolar coma (NKHHC)	51/	100 10 014
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	DX	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	DX	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	DX	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	DX	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	DX	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	DX	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	DX	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	DX	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	DX	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	DX	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	DX	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	DX	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	DX	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	DX	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	DX	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 533 of 702



		Code	Code
Code	Description	Туре	Category
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right	DX	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	DX	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	DX	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	DX	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	DX	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	DX	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	DX	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	DX	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	DX	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	DX	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	DX	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	DX	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	DX	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	DX	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	DX	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	DX	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	DX	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	DX	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	DX	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	DX	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	DX	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	DX	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	DX	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	DX	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	DX	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	DX	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	DX	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	DX	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-	DX	ICD-10-CM
	hyperosmolar coma (NKHHC)		
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	DX	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	DX	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	DX	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	DX	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	DX	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	DX	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	DX	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	DX	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema,	DX	ICD-10-CM
	right eye		
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 534 of 702



Code	Description	Code	Code
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema,	<b>Type</b> DX	Category ICD-10-CM
L11.3213	bilateral	DΛ	ICD-TO-CIAI
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
	edema, right eye		
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
E11.3311	edema, unspecified eye Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
E44 2242	edema, right eye	5.7	100 40 614
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
E11.3319	edema, bilateral  Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
	edema, unspecified eye		
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without	DX	ICD-10-CM
E44 2222	macular edema, bilateral	51/	100 10 011
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
E11.3412	edema, right eye  Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
	edema, left eye		
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
E11.3491	edema, unspecified eye Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
E11.3492	edema, right eye  Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
L11.343Z	edema, left eye	DΛ	ICD-TO-CIVI
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
	Cucina, phateral		

cder\_mpl2p\_wp047 Page 535 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
	edema, unspecified eye		
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right	DX	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	DX	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	DX	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	DX	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	DX	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	DX	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	DX	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	DX	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	DX	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	DX	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	DX	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	DX	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	DX	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	DX	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	DX	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	DX	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	DX	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 536 of 702



		Code	Code
Code	Description	Туре	Category
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	DX	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	DX	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	DX	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 537 of 702



baseiiile Ci	naracteristics in this Request	Code	Code
Code	Description	Type	Category
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	DX	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	DX	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	DX	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	DX	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	DX	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	DX	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	DX	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	DX	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	DX	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	DX	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	DX	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	DX	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	DX	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	DX	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	DX	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	DX	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 538 of 702



		Code	Code
Code	Description	Туре	Category
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	DX	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	DX	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	DX	ICD-10-CM
E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	DX	ICD-10-CM
E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	DX	ICD-10-CM
E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	DX	ICD-10-CM
E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	DX	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	DX	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right	DX	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	DX	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	DX	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	DX	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	DX	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	DX	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	DX	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	DX	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	DX	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 539 of 702



Code	Description	Code Type	Code Category
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
	edema, right eye		
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
	edema, left eye		
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
110.5515	edema, unspecified eye	DΛ	TCD IO CIVI
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without	DX	ICD-10-CM
	macular edema, right eye		
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without	DX	ICD-10-CM
	macular edema, left eye		
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without	DX	ICD-10-CM
	macular edema, bilateral		
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without	DX	ICD-10-CM
=100111	macular edema, unspecified eye	51/	100 40 014
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
E10.3412	edema, right eye  Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
E10.5412	edema, left eye	DΛ	ICD-10-CIVI
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
	edema, bilateral		
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular	DX	ICD-10-CM
	edema, unspecified eye		
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
	edema, right eye		
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
	edema, left eye		
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
E10.3499	edema, bilateral  Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular	DX	ICD-10-CM
E10.5499	edema, unspecified eye	DΛ	ICD-10-CIVI
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right	DX	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	DX	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	DX	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema,	DX	ICD-10-CM
	unspecified eye		
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment involving the macula, right eye		
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment involving the macula, left eye		
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment involving the macula, bilateral		

cder\_mpl2p\_wp047 Page 540 of 702



Code	Description	Code Type	Code Category
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment involving the macula, unspecified eye		
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment not involving the macula, right eye		
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment not involving the macula, left eye		
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment not involving the macula, bilateral		
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal	DX	ICD-10-CM
	detachment not involving the macula, unspecified eye		
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction	DX	ICD-10-CM
	retinal detachment and rhegmatogenous retinal detachment, right eye		
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction	DX	ICD-10-CM
	retinal detachment and rhegmatogenous retinal detachment, left eye		
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction	DX	ICD-10-CM
	retinal detachment and rhegmatogenous retinal detachment, bilateral		
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction	DX	ICD-10-CM
	retinal detachment and rhegmatogenous retinal detachment, unspecified eye		
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	DX	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	DX	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	DX	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	DX	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right	DX	ICD-10-CM
	eye		
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left	DX	ICD-10-CM
	eye		
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema,	DX	ICD-10-CM
	bilateral		
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema,	DX	ICD-10-CM
	unspecified eye		
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	DX	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	DX	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	DX	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	DX	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	DX	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	DX	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	DX	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	DX	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	DX	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	DX	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	DX	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	DX	ICD-10-CM
	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 541 of 702



Daseillie Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	DX	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	DX	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	DX	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	DX	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	DX	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	DX	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	DX	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	DX	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	DX	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	DX	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	DX	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	DX	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	DX	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	DX	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	DX	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	DX	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	DX	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	DX	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	DX	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	DX	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	DX	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	DX	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	DX	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	DX	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	DX	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	DX	ICD-10-CM
	Hypercholesterolemia		
272.0	Pure hypercholesterolemia	DX	ICD-9-CM
272.2	Mixed hyperlipidemia	DX	ICD-9-CM
E78.00	Pure hypercholesterolemia, unspecified	DX	ICD-10-CM
E78.01	Familial hypercholesterolemia	DX	ICD-10-CM
E78.2	Mixed hyperlipidemia	DX	ICD-10-CM
	Hypertension		
401	Essential hypertension	DX	ICD-9-CM
401.0	Essential hypertension, malignant	DX	ICD-9-CM
401.1	Essential hypertension, benign	DX	ICD-9-CM
401.9	Unspecified essential hypertension	DX	ICD-9-CM
402	Hypertensive heart disease	DX	ICD-9-CM
402.0	Malignant hypertensive heart disease	DX	ICD-9-CM
402.00	Malignant hypertensive heart disease without heart failure	DX	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	DX	ICD-9-CM
402.1	Benign hypertensive heart disease	DX	ICD-9-CM
402.10	Benign hypertensive heart disease without heart failure	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 542 of 702



	Characteristics in this Request	Code	Code
Code	Description	Туре	Category
402.11	Benign hypertensive heart disease with heart failure	DX	ICD-9-CM
402.9	Unspecified hypertensive heart disease	DX	ICD-9-CM
402.90	Unspecified hypertensive heart disease without heart failure	DX	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	DX	ICD-9-CM
403	Hypertensive chronic kidney disease	DX	ICD-9-CM
403.0	Hypertensive chronic kidney disease, malignant	DX	ICD-9-CM
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
403.1	Hypertensive chronic kidney disease, benign	DX	ICD-9-CM
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
403.9	Hypertensive chronic kidney disease, unspecified	DX	ICD-9-CM
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
404	Hypertensive heart and chronic kidney disease	DX	ICD-9-CM
404.0	Hypertensive heart and chronic kidney disease, malignant	DX	ICD-9-CM
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
404.1	Hypertensive heart and chronic kidney disease, benign	DX	ICD-9-CM
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
404.9	Hypertensive heart and chronic kidney disease, unspecified	DX	ICD-9-CM
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 543 of 702



	naracteristics in this Request	Code	Code
Code	Description	Type	Category
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with	DX	ICD-9-CM
	chronic kidney disease stage I through stage IV, or unspecified		
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with	DX	ICD-9-CM
	chronic kidney disease stage V or end stage renal disease		
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic	DX	ICD-9-CM
	kidney disease stage V or end stage renal disease		
405	Secondary hypertension	DX	ICD-9-CM
405.0	Secondary hypertension, malignant	DX	ICD-9-CM
405.01	Secondary renovascular hypertension, malignant	DX	ICD-9-CM
405.09	Other secondary hypertension, malignant	DX	ICD-9-CM
405.1	Secondary hypertension, benign	DX	ICD-9-CM
405.11	Secondary renovascular hypertension, benign	DX	ICD-9-CM
405.19	Other secondary hypertension, benign	DX	ICD-9-CM
405.9	Unspecified secondary hypertension, unspecified	DX	ICD-9-CM
405.91	Secondary renovascular hypertension, unspecified	DX	ICD-9-CM
405.99	Other secondary hypertension, unspecified	DX	ICD-9-CM
997.91	Hypertension	DX	ICD-9-CM
110	Essential (primary) hypertension	DX	ICD-10-CM
111.0	Hypertensive heart disease with heart failure	DX	ICD-10-CM
111.9	Hypertensive heart disease without heart failure	DX	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	DX	ICD-10-CM
112.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or	DX	ICD-10-CM
112.5	unspecified chronic kidney disease	DA	ICD TO CIVI
113.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4	DX	ICD-10-CM
113.0	chronic kidney disease, or unspecified chronic kidney disease	DΛ	100 10 0111
113.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through	DX	ICD-10-CM
113.10	stage 4 chronic kidney disease, or unspecified chronic kidney disease	DΛ	ICD IO CIVI
113.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic	DX	ICD-10-CM
113.11	kidney disease, or end stage renal disease	DΛ	ICD TO CIVI
113.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic	DX	ICD-10-CM
113.2	kidney disease, or end stage renal disease	DΛ	ICD TO CIVI
115.0	Renovascular hypertension	DX	ICD-10-CM
115.1	Hypertension secondary to other renal disorders	DX	ICD-10-CM
115.2	Hypertension secondary to endocrine disorders	DX	ICD-10-CM
115.8	Other secondary hypertension	DX	ICD-10-CM
115.9	Secondary hypertension, unspecified	DX	ICD-10-CM
116.0	Hypertensive urgency	DX	ICD-10-CM
116.1	Hypertensive emergency	DX	ICD-10-CM
116.1	Hypertensive crisis, unspecified	DX	ICD-10-CM
197.3	Postprocedural hypertension	DX	ICD-10-CM
N26.2	Page kidney	DX	ICD-10-CM
1420.2	Kidney failure - Chronic	DΛ	ICD-TO-CIVI
	Kiuliey fallure - Cilionic		

cder\_mpl2p\_wp047 Page 544 of 702



Daseille C	haracteristics in this Request	Code	Code
Code	Description	Туре	Category
585	Chronic kidney disease (CKD)	DX	ICD-9-CM
585.1	Chronic kidney disease, Stage I	DX	ICD-9-CM
585.2	Chronic kidney disease, Stage II (mild)	DX	ICD-9-CM
585.3	Chronic kidney disease, Stage III (moderate)	DX	ICD-9-CM
585.4	Chronic kidney disease, Stage IV (severe)	DX	ICD-9-CM
585.5	Chronic kidney disease, Stage V	DX	ICD-9-CM
585.6	End stage renal disease	DX	ICD-9-CM
585.9	Chronic kidney disease, unspecified	DX	ICD-9-CM
586	Unspecified renal failure	DX	ICD-9-CM
587	Unspecified renal sclerosis	DX	ICD-9-CM
N18.1	Chronic kidney disease, stage 1	DX	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	DX	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	DX	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	DX	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	DX	ICD-10-CM
N18.6	End stage renal disease	DX	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	DX	ICD-10-CM
N19	Unspecified kidney failure	DX	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	DX	ICD-10-CM
N26.9	Renal sclerosis, unspecified	DX	ICD-10-CM
	Kidney failure - Acute		
584	Acute kidney failure	DX	ICD-9-CM
584.5	Acute kidney failure with lesion of tubular necrosis	DX	ICD-9-CM
584.6	Acute kidney failure with lesion of renal cortical necrosis	DX	ICD-9-CM
584.7	Acute kidney failure with lesion of medullary [papillary] necrosis	DX	ICD-9-CM
584.8	Acute kidney failure with other specified pathological lesion in kidney	DX	ICD-9-CM
584.9	Acute kidney failure, unspecified	DX	ICD-9-CM
N17.0	Acute kidney failure with tubular necrosis	DX	ICD-10-CM
N17.1	Acute kidney failure with acute cortical necrosis	DX	ICD-10-CM
N17.2	Acute kidney failure with medullary necrosis	DX	ICD-10-CM
N17.8	Other acute kidney failure	DX	ICD-10-CM
N17.9	Acute kidney failure, unspecified	DX	ICD-10-CM
	Obesity		
278.0	Overweight and obesity	DX	ICD-9-CM
278.00	Obesity, unspecified	DX	ICD-9-CM
278.01	Morbid obesity	DX	ICD-9-CM
278.02	Overweight	DX	ICD-9-CM
278.1	Localized adiposity	DX	ICD-9-CM
V4586	Bariatric surgery status	DX	ICD-9-CM
V853	Body Mass Index between 30-39, adult	DX	ICD-9-CM
V8530	Body Mass Index 30.0-30.9, adult	DX	ICD-9-CM
V8531	Body Mass Index 31.0-31.9, adult	DX	ICD-9-CM
V8532	Body Mass Index 32.0-32.9, adult	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 545 of 702



	·	Code	Code
Code	Description	Туре	Category
V8533	Body Mass Index 33.0-33.9, adult	DX	ICD-9-CM
V8534	Body Mass Index 34.0-34.9, adult	DX	ICD-9-CM
V8535	Body Mass Index 35.0-35.9, adult	DX	ICD-9-CM
V8536	Body Mass Index 36.0-36.9, adult	DX	ICD-9-CM
V8537	Body Mass Index 37.0-37.9, adult	DX	ICD-9-CM
V8538	Body Mass Index 38.0-38.9, adult	DX	ICD-9-CM
V8539	Body Mass Index 39.0-39.9, adult	DX	ICD-9-CM
V854	Body Mass Index 40 and over, adult	DX	ICD-9-CM
44.31	High gastric bypass	PX	ICD-9-CM
44.68	Laparoscopic gastroplasty	PX	ICD-9-CM
44.95	Laparoscopic gastric restrictive procedure	PX	ICD-9-CM
E65	Localized adiposity	DX	ICD-10-CM
E66.01	Morbid (severe) obesity due to excess calories	DX	ICD-10-CM
E66.09	Other obesity due to excess calories	DX	ICD-10-CM
E66.1	Drug-induced obesity	DX	ICD-10-CM
E66.3	Overweight	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 546 of 702



baseline Cr	naracteristics in this Request	Code	Code
Code	Description	Type	Category
E66.8	Other obesity	DX	ICD-10-CM
E66.9	Obesity, unspecified	DX	ICD-10-CM
Z68.30	Body mass index (BMI) 30.0-30.9, adult	DX	ICD-10-CM
Z68.31	Body mass index (BMI) 31.0-31.9, adult	DX	ICD-10-CM
Z68.32	Body mass index (BMI) 32.0-32.9, adult	DX	ICD-10-CM
Z68.33	Body mass index (BMI) 33.0-33.9, adult	DX	ICD-10-CM
Z68.34	Body mass index (BMI) 34.0-34.9, adult	DX	ICD-10-CM
Z68.35	Body mass index (BMI) 35.0-35.9, adult	DX	ICD-10-CM
Z68.36	Body mass index (BMI) 36.0-36.9, adult	DX	ICD-10-CM
Z68.37	Body mass index (BMI) 37.0-37.9, adult	DX	ICD-10-CM
Z68.38	Body mass index (BMI) 38.0-38.9, adult	DX	ICD-10-CM
Z68.39	Body mass index (BMI) 39.0-39.9, adult	DX	ICD-10-CM
Z98.84	Bariatric surgery status	DX	ICD-10-CM
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	PX	ICD-10-CM
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
0D160ZA	Bypass Stomach to Jejunum, Open Approach	PX	ICD-10-CM
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial	PX	ICD-10-CM
	Opening Endoscopic		
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-CM
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial	PX	ICD-10-CM
	Opening Endoscopic		
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-CM
0DQ64ZZ	Repair Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
	Peptic ulcer disease		
531.0	Acute gastric ulcer with hemorrhage	DX	ICD-9-CM
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
531.01	Acute gastric ulcer with hemorrhage and obstruction	DX	ICD-9-CM
531.1	Acute gastric ulcer with perforation	DX	ICD-9-CM
531.10	Acute gastric ulcer with perforation, without mention of obstruction	DX	ICD-9-CM
531.11	Acute gastric ulcer with perforation and obstruction	DX	ICD-9-CM
531.2	Acute gastric ulcer with hemorrhage and perforation	DX	ICD-9-CM
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
531.30	Acute gastric ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM
531.31	Acute gastric ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM
531.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-9-CM
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	DX	ICD-9-CM
531.5	Chronic or unspecified gastric ulcer with perforation	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 547 of 702



Baseline C	Baseline Characteristics in this Request				
Codo	Description	Code	Code		
Code	Description Characteristic description with a set of a between the set o	Туре	Category		
531.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	DX	ICD-9-CM		
531.51	Chronic or unspecified gastric ulcer with perforation and obstruction	DX	ICD-9-CM		
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	DX	ICD-9-CM		
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM		
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM		
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM		
531.70	Chronic gastric ulcer without mention of hemorrhage, perforation, without mention of obstruction	DX	ICD-9-CM		
531.71	Chronic gastric ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM		
532.0	Acute duodenal ulcer with hemorrhage	DX	ICD-9-CM		
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM		
532.01	Acute duodenal ulcer with hemorrhage and obstruction	DX	ICD-9-CM		
532.1	Acute duodenal ulcer with perforation	DX	ICD-9-CM		
532.10	Acute duodenal ulcer with perforation, without mention of obstruction	DX	ICD-9-CM		
532.11	Acute duodenal ulcer with perforation and obstruction	DX	ICD-9-CM		
532.2	Acute duodenal ulcer with hemorrhage and perforation	DX	ICD-9-CM		
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM		
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM		
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM		
532.30	Acute duodenal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM		
532.31	Acute duodenal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM		
532.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-9-CM		
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	DX	ICD-9-CM		
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	DX	ICD-9-CM		
532.5	Chronic or unspecified duodenal ulcer with perforation	DX	ICD-9-CM		
532.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction	DX	ICD-9-CM		
532.51	Chronic or unspecified duodenal ulcer with perforation and obstruction	DX	ICD-9-CM		
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	DX	ICD-9-CM		
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM		
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM		
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM		
532.70	Chronic duodenal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM		
532.71	Chronic duodenal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM		
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	DX	ICD-9-CM		
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-9-CM		
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-9-CM		
533.1	Acute peptic ulcer, unspecified site, with perforation	DX	ICD-9-CM		
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	DX	ICD-9-CM		
533.11	Acute peptic ulcer, unspecified site, with perforation and obstruction	DX	ICD-9-CM		
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	DX	ICD-9-CM		

cder\_mpl2p\_wp047 Page 548 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	DX	ICD-9-CM
533.30	Acute peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with obstruction	DX	ICD-9-CM
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	DX	ICD-9-CM
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-9-CM
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-9-CM
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	DX	ICD-9-CM
533.50	Chronic or unspecified peptic ulcer, unspecified site, with perforation, without mention of obstruction	DX	ICD-9-CM
533.51	Chronic or unspecified peptic ulcer, unspecified site, with perforation and obstruction	DX	ICD-9-CM
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	DX	ICD-9-CM
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	DX	ICD-9-CM
533.70	Chronic peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM
533.71	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM
534.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-9-CM
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-9-CM
534.1	Acute gastrojejunal ulcer with perforation	DX	ICD-9-CM
534.10	Acute gastrojejunal ulcer with perforation, without mention of obstruction	DX	ICD-9-CM
534.11	Acute gastrojejunal ulcer with perforation and obstruction	DX	ICD-9-CM
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	DX	ICD-9-CM
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-9-CM
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
534.30	Acute gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM
534.31	Acute gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-9-CM
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-9-CM
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-9-CM
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	DX	ICD-9-CM
534.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 549 of 702



		Code	Code
Code	Description	Type	Category
534.51	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	DX	ICD-9-CM
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	DX	ICD-9-CM
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without	DX	ICD-9-CM
	mention of obstruction		
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-9-CM
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-9-CM
534.70	Chronic gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-9-CM
534.71	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-9-CM
44.4	Control of hemorrhage and suture of ulcer of stomach or duodenum	PX	ICD-9-CM
44.40	Suture of peptic ulcer, not otherwise specified	PX	ICD-9-CM
44.41	Suture of gastric ulcer site	PX	ICD-9-CM
44.42	Suture of duodenal ulcer site	PX	ICD-9-CM
K25.0	Acute gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.1	Acute gastric ulcer with perforation	DX	ICD-10-CM
K25.2	Acute gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K25.3	Acute gastric ulcer without hemorrhage or perforation	DX	ICD-10-CM
K25.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.5	Chronic or unspecified gastric ulcer with perforation	DX	ICD-10-CM
K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K25.7	Chronic gastric ulcer without hemorrhage or perforation	DX	ICD-10-CM
K26.0	Acute duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.1	Acute duodenal ulcer with perforation	DX	ICD-10-CM
K26.2	Acute duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.3	Acute duodenal ulcer without hemorrhage or perforation	DX	ICD-10-CM
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.5	Chronic or unspecified duodenal ulcer with perforation	DX	ICD-10-CM
K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.7	Chronic duodenal ulcer without hemorrhage or perforation	DX	ICD-10-CM
K27.0	Acute peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.1	Acute peptic ulcer, site unspecified, with perforation	DX	ICD-10-CM
K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K27.3	Acute peptic ulcer, site unspecified, without hemorrhage or perforation	DX	ICD-10-CM
K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.5	Chronic or unspecified peptic ulcer, site unspecified, with perforation	DX	ICD-10-CM
K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K27.7	Chronic peptic ulcer, site unspecified, without hemorrhage or perforation	DX	ICD-10-CM
K28.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.1	Acute gastrojejunal ulcer with perforation	DX	ICD-10-CM
K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K28.3	Acute gastrojejunal ulcer with both hemorrhage or perforation	DX	ICD-10-CM
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.5	Chronic or unspecified gastrojejunal ulcer with perforation	DX	ICD-10-CM
K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 550 of 702



		Code	Code
Code	Description	Type	Category
K28.7	Chronic gastrojejunal ulcer without hemorrhage or perforation	DX	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	DX	ICD-10-CM
0DQ60ZZ	Repair Stomach, Open Approach	PX	ICD-10-CM
0DQ63ZZ	Repair Stomach, Percutaneous Approach	PX	ICD-10-CM
0DQ64ZZ	Repair Stomach, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0DQ67ZZ	Repair Stomach, Via Natural or Artificial Opening	PX	ICD-10-CM
0DQ68ZZ	Repair Stomach, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-CM
0DQ90ZZ	Repair Duodenum, Open Approach	PX	ICD-10-CM
0DQ93ZZ	Repair Duodenum, Percutaneous Approach	PX	ICD-10-CM
0DQ94ZZ	Repair Duodenum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0DQ97ZZ	Repair Duodenum, Via Natural or Artificial Opening	PX	ICD-10-CM
0DQ98ZZ	Repair Duodenum, Via Natural or Artificial Opening Endoscopic	PX	ICD-10-CM
	Acute myocardial infarction		
121.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	DX	ICD-10-CM
121.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	DX	ICD-10-CM
121.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	DX	ICD-10-CM
121.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	DX	ICD-10-CM
121.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	DX	ICD-10-CM
121.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	DX	ICD-10-CM
121.29	ST elevation (STEMI) myocardial infarction involving other sites	DX	ICD-10-CM
121.3	ST elevation (STEMI) myocardial infarction of unspecified site	DX	ICD-10-CM
121.4	Non-ST elevation (NSTEMI) myocardial infarction	DX	ICD-10-CM
121.9	Acute myocardial infarction, unspecified	DX	ICD-10-CM
I21.A1	Myocardial infarction type 2	DX	ICD-10-CM
I21.A9	Other myocardial infarction type	DX	ICD-10-CM
122.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	DX	ICD-10-CM
122.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	DX	ICD-10-CM
122.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	DX	ICD-10-CM
122.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	DX	ICD-10-CM
122.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	DX	ICD-10-CM
410	Acute myocardial infarction	DX	ICD-9-CM
410.0	Acute myocardial infarction of anterolateral wall	DX	ICD-9-CM
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	DX	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	DX	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	DX	ICD-9-CM
410.1	Acute myocardial infarction of other anterior wall	DX	ICD-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	DX	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	DX	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	DX	ICD-9-CM
410.2	Acute myocardial infarction of inferolateral wall	DX	ICD-9-CM
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	DX	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 551 of 702



Dascille Ci	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
410.3	Acute myocardial infarction of inferoposterior wall	DX	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	DX	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	DX	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	DX	ICD-9-CM
410.4	Acute myocardial infarction of other inferior wall	DX	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	DX	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	DX	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	DX	ICD-9-CM
410.5	Acute myocardial infarction of other lateral wall	DX	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	DX	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	DX	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	DX	ICD-9-CM
410.6	Acute myocardial infarction, true posterior wall infarction	DX	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	DX	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	DX	ICD-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	DX	ICD-9-CM
410.7	Acute myocardial infarction, subendocardial infarction	DX	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	DX	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	DX	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	DX	ICD-9-CM
410.8	Acute myocardial infarction of other specified sites	DX	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	DX	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	DX	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	DX	ICD-9-CM
410.9	Acute myocardial infarction, unspecified site	DX	ICD-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	DX	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	DX	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	DX	ICD-9-CM
410	Acute myocardial infarction	DX	ICD-9-CM
410.0	Acute myocardial infarction of anterolateral wall	DX	ICD-9-CM
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	DX	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	DX	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	DX	ICD-9-CM
410.1	Acute myocardial infarction of other anterior wall	DX	ICD-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	DX	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	DX	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	DX	ICD-9-CM
410.2	Acute myocardial infarction of inferolateral wall	DX	ICD-9-CM
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	DX	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	DX	ICD-9-CM
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	DX	ICD-9-CM
410.3	Acute myocardial infarction of inferoposterior wall	DX	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 552 of 702



Baseline C	naracteristics in this Request		
		Code	Code
Code	Description	Туре	Category
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	DX	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	DX	ICD-9-CM
410.4	Acute myocardial infarction of other inferior wall	DX	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	DX	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	DX	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	DX	ICD-9-CM
410.5	Acute myocardial infarction of other lateral wall	DX	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	DX	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	DX	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	DX	ICD-9-CM
410.6	Acute myocardial infarction, true posterior wall infarction	DX	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	DX	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	DX	ICD-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	DX	ICD-9-CM
410.7	Acute myocardial infarction, subendocardial infarction	DX	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	DX	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	DX	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	DX	ICD-9-CM
410.8	Acute myocardial infarction of other specified sites	DX	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	DX	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	DX	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	DX	ICD-9-CM
410.9	Acute myocardial infarction, unspecified site	DX	ICD-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	DX	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	DX	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	DX	ICD-9-CM
121.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	DX	ICD-10-CM
121.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	DX	ICD-10-CM
121.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	DX	ICD-10-CM
121.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	DX	ICD-10-CM
121.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	DX	ICD-10-CM
121.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	DX	ICD-10-CM
121.29	ST elevation (STEMI) myocardial infarction involving other sites	DX	ICD-10-CM
121.3	ST elevation (STEMI) myocardial infarction of unspecified site	DX	ICD-10-CM
121.4	Non-ST elevation (NSTEMI) myocardial infarction	DX	ICD-10-CM
121.9	Acute myocardial infarction, unspecified	DX	ICD-10-CM
I21.A1	Myocardial infarction type 2	DX	ICD-10-CM
I21.A9	Other myocardial infarction type	DX	ICD-10-CM
122.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	DX	ICD-10-CM
122.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	DX	ICD-10-CM
122.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	DX	ICD-10-CM
122.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	DX	ICD-10-CM
122.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 553 of 702



		Code	Code
Code	Description	Туре	Category
	Coronary revascularization		
V4581	Postprocedural aortocoronary bypass status	DX	ICD-9-CM
V4582	Postprocedural percutaneous transluminal coronary angioplasty status	DX	ICD-9-CM
V4588	Status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to	DX	ICD-9-CM
	admission to current facility		
00.66	Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy	PX	ICD-9-CM
36.0	Removal of coronary artery obstruction and insertion of stent(s)	PX	ICD-9-CM
36.03	Open chest coronary artery angioplasty	PX	ICD-9-CM
36.04	Intracoronary artery thrombolytic infusion	PX	ICD-9-CM
36.06	Insertion of non-drug-eluting coronary artery stent(s)	PX	ICD-9-CM
36.07	Insertion of drug-eluting coronary artery stent(s)	PX	ICD-9-CM
36.09	Other removal of coronary artery obstruction	PX	ICD-9-CM
36.1	Bypass anastomosis for heart revascularization	PX	ICD-9-CM
36.10	Aortocoronary bypass for heart revascularization, not otherwise specified	PX	ICD-9-CM
36.11	(Aorto)coronary bypass of one coronary artery	PX	ICD-9-CM
36.12	(Aorto)coronary bypass of two coronary arteries	PX	ICD-9-CM
36.13	(Aorto)coronary bypass of three coronary arteries	PX	ICD-9-CM
36.14	(Aorto)coronary bypass of four or more coronary arteries	PX	ICD-9-CM
36.15	Single internal mammary-coronary artery bypass	PX	ICD-9-CM
36.16	Double internal mammary-coronary artery bypass	PX	ICD-9-CM
36.17	Abdominal-coronary artery bypass	PX	ICD-9-CM
36.19	Other bypass anastomosis for heart revascularization	PX	ICD-9-CM
36.2	Heart revascularization by arterial implant	PX	ICD-9-CM
36.3	Other heart revascularization	PX	ICD-9-CM
36.31	Open chest transmyocardial revascularization	PX	ICD-9-CM
36.32	Other transmyocardial revascularization	PX	ICD-9-CM
36.33	Endoscopic transmyocardial revascularization	PX	ICD-9-CM
36.34	Percutaneous transmyocardial revascularization	PX	ICD-9-CM
36.39	Other heart revascularization	PX	ICD-9-CM
00566	Anesthesia for direct coronary artery bypass grafting; without pump oxygenator	PX	CPT-4
33508	Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass	PX	CPT-4
	procedure (List separately in addition to code for primary procedure)		
33510	Coronary artery bypass, vein only; single coronary venous graft	PX	CPT-4
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	PX	CPT-4
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	PX	CPT-4
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	PX	CPT-4
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	PX	CPT-4
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	PX	CPT-4
33517	Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List	PX	CPT-4
	separately in addition to code for primary procedure)		
33518	Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List	PX	CPT-4
	separately in addition to code for primary procedure)		

cder\_mpl2p\_wp047 Page 554 of 702



Code	Description	Code Type	Code Category
33519	Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List	PX	CPT-4
	separately in addition to code for primary procedure)		
33521	Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List	PX	CPT-4
	separately in addition to code for primary procedure)		
33522	Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List	PX	CPT-4
	separately in addition to code for primary procedure)		
33523	Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts	PX	CPT-4
	(List separately in addition to code for primary procedure)		
33530	Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after	PX	CPT-4
	original operation (List separately in addition to code for primary procedure)		
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	PX	CPT-4
33534	Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	PX	CPT-4
33535	Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	PX	CPT-4
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	PX	CPT-4
33572	Coronary endarterectomy, open, any method, of left anterior descending, circumflex, or right	PX	CPT-4
	coronary artery performed in conjunction with coronary artery bypass graft procedure, each		
	vessel (List separately in addition to primary procedure)		
35500	Harvest of upper extremity vein, 1 segment, for lower extremity or coronary artery bypass	PX	CPT-4
	procedure (List separately in addition to code for primary procedure)		
2920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	PX	CPT-4
92921	Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary	PX	CPT-4
	artery (List separately in addition to code for primary procedure)		
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when	PX	CPT-4
	performed; single major coronary artery or branch		
92925	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when	PX	CPT-4
	performed; each additional branch of a major coronary artery (List separately in addition to		
	code for primary procedure)		
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty	PX	CPT-4
	when performed; single major coronary artery or branch		
92929	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty	PX	CPT-4
	when performed; each additional branch of a major coronary artery (List separately in		
	addition to code for primary procedure)		
92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary	PX	CPT-4
	angioplasty when performed; single major coronary artery or branch		
92934	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary	PX	CPT-4
	angioplasty when performed; each additional branch of a major coronary artery (List		
	separately in addition to code for primary procedure)		
92937	Percutaneous transluminal revascularization of or through coronary artery bypass graft	PX	CPT-4
	(internal mammary, free arterial, venous), any combination of intracoronary stent,		
	atherectomy and angioplasty, including distal protection when performed; single vessel		

cder\_mpl2p\_wp047 Page 555 of 702



		Code	Code
Code	Description	Type	Category
92938	Percutaneous transluminal revascularization of or through coronary artery bypass graft	PX	CPT-4
	(internal mammary, free arterial, venous), any combination of intracoronary stent,		
	atherectomy and angioplasty, including distal protection when performed; each additional		
	branch subtended by the bypass graft (List separately in addition to code for primary		
	procedure)		
92941	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute	PX	CPT-4
	myocardial infarction, coronary artery or coronary artery bypass graft, any combination of		
	intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when		
	performed, single vessel		
92943	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery,	PX	CPT-4
	coronary artery branch, or coronary artery bypass graft, any combination of intracoronary		
	stent, atherectomy and angioplasty; single vessel		
92944	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery,	PX	CPT-4
	coronary artery branch, or coronary artery bypass graft, any combination of intracoronary		
	stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch,		
	or bypass graft (List separately in addition to code for primary procedure)		
92973	Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to	PX	CPT-4
32373	code for primary procedure)		<b>C</b>
92975	Thrombolysis, coronary; by intracoronary infusion, including selective coronary angiography	PX	CPT-4
92977	Thrombolysis, coronary; by intravenous infusion	PX	CPT-4
92980	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other	PX	CPT-4
32360	therapeutic intervention, any method; single vessel	17	CITT
92981	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other	PX	CPT-4
32301	therapeutic intervention, any method; each additional vessel (List separately in addition to	ΓΛ	CF 1-4
	code for primary procedure)		
กวกคว		DV	CDT 4
92982	Percutaneous transluminal coronary balloon angioplasty; single vessel	PX	CPT-4
92984	Percutaneous transluminal coronary balloon angioplasty; each additional vessel (List	PX	CPT-4
02005	separately in addition to code for primary procedure)	D\/	CDT 4
92995	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or	PX	CPT-4
	without balloon angioplasty; single vessel		
92996	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or	PX	CPT-4
	without balloon angioplasty; each additional vessel (List separately in addition to code for		
	primary procedure)		
93540	Injection procedure during cardiac catheterization; for selective opacification of	PX	CPT-4
	aortocoronary venous bypass grafts, 1 or more coronary arteries		
93564	Injection procedure during cardiac catheterization including imaging supervision,	PX	CPT-4
	interpretation, and report; for selective opacification of aortocoronary venous or arterial		
	bypass graft(s) (eg, aortocoronary saphenous vein, free radial artery, or free mammary artery		
	graft) to one or more coronary arteries and in situ arterial conduits (eg, internal mammary),		
	whether native or used for bypass to one or more coronary arteries during congenital heart		
	catheterization, when performed (List separately in addition to code for primary procedure)		
C9600	Percutaneous transcatheter placement of drug eluting intracoronary stent(s), with coronary	PX	HCPCS
	angioplasty when performed; single major coronary artery or branch		

cder\_mpl2p\_wp047 Page 556 of 702



	Characteristics in this Request	Code	Code
Code	Description	Type	Category
C9601	Percutaneous transcatheter placement of drug-eluting intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	PX	HCPCS
C9602	Percutaneous transluminal coronary atherectomy, with drug eluting intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	PX	HCPCS
C9603	Percutaneous transluminal coronary atherectomy, with drug-eluting intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	PX	HCPCS
C9604	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	PX	HCPCS
C9605	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (list separately in addition to code for primary procedure)	PX	HCPCS
C9606	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel	PX	HCPCS
C9607	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; single vessel	PX	HCPCS
C9608	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (list separately in addition to code for primary procedure)	PX	HCPCS
G0290	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	PX	HCPCS
G0291	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel	PX	HCPCS
G8158	Patient documented to have received coronary artery bypass graft with use of internal mammary artery	PX	HCPCS
G8159	Patient documented to have received coronary artery bypass graft without use of internal mammary artery	PX	HCPCS
G8161	Patient with isolated coronary artery bypass graft documented to have received pre- operative beta-blockade	PX	HCPCS
G8162	Patient with isolated coronary artery bypass graft not documented to have received preoperative beta-blockade	PX	HCPCS
G8163	Clinician documented that patient with isolated coronary artery bypass graft was not an eligible candidate for pre-operative beta-blockade measure	PX	HCPCS
G8164	Patient with isolated coronary artery bypass graft documented to have prolonged intubation	PX	HCPCS

cder\_mpl2p\_wp047 Page 557 of 702



		Code	Code
Code	Description	Type	Category
G8165	Patient with isolated coronary artery bypass graft not documented to have prolonged intubation	PX	HCPCS
G8166	Patient with isolated coronary artery bypass graft documented to have required surgical re- exploration	PX	HCPCS
G8167	Patient with isolated coronary artery bypass graft did not require surgical re-exploration	PX	HCPCS
G8170	Patient with isolated coronary artery bypass graft documented to have been discharged on aspirin or clopidogrel	PX	HCPCS
G8171	Patient with isolated coronary artery bypass graft not documented to have been discharged on aspirin or clopidogrel	PX	HCPCS
G8172	Clinician documented that patient with isolated coronary artery bypass graft was not an eligible candidate for antiplatelet therapy at discharge measure	PX	HCPCS
Z92.82	Status post administration of tPA (rtPA) in a different facility within the last 24 hours prior to admission to current facility	DX	ICD-10-CM
Z95.1	Presence of aortocoronary bypass graft	DX	ICD-10-CM
Z95.5	Presence of coronary angioplasty implant and graft	DX	ICD-10-CM
Z98.61	Coronary angioplasty status	DX	ICD-10-CM
00.66	Percutaneous transluminal coronary angioplasty [PTCA]	PX	ICD-09-CM
0210083	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0210088	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0210089	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021008C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021008F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021008W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0210093	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0210098	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0210099	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021009C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021009F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021009W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
02100A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 558 of 702



Code	Description	Code Type	Code Category
02100A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial	PX	ICD-10-CM
	Tissue, Open Approach		
02100A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial	PX	ICD-10-CM
	Tissue, Open Approach		
02100AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue,	PX	ICD-10-CM
	Open Approach		
02100AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue,	PX	ICD-10-CM
	Open Approach		
02100AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Open	PX	ICD-10-CM
	Approach		
02100J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Open	PX	ICD-10-CM
	Approach		
02100J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute,	PX	ICD-10-CM
0240010	Open Approach	DV	ICD 40 CN4
02100J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute,	PX	ICD-10-CM
02100JC	Open Approach  Pyracs Corpany Artery One Artery from Thoracic Artery with Synthetic Substitute Open	DV	ICD 10 CM
02100JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02100JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Open	PX	ICD-10-CM
J2100JF	Approach	17	ICD-10-CIVI
02100JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02100K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02100K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous	PX	ICD-10-CM
	Tissue Substitute, Open Approach		
02100K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02100KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02100KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02100KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Open	PX	ICD-10-CM
	Approach		
02100Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Open Approach	PX	ICD-10-CM
02100Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Open Approach	PX	ICD-10-CM
02100Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Open Approach	PX	ICD-10-CM
02100ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Open Approach	PX	ICD-10-CM
02100ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Open Approach	PX	ICD-10-CM
0210344	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal	PX	ICD-10-CM
02102D4	Device, Percutaneous Approach  Rypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device	DV	ICD_10 CN4
02103D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
	r et cutatieous Appi oacit		

cder\_mpl2p\_wp047 Page 559 of 702



Code	Description	Code Type	Code Category
0210444	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal	PX	ICD-10-CM
	Device, Percutaneous Endoscopic Approach		
0210483	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
0210488	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
0210489	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
021048C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
021048F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
021048W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0210493	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
0210498	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous	PX	ICD-10-CM
	Tissue, Percutaneous Endoscopic Approach		
0210499	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous	PX	ICD-10-CM
	Tissue, Percutaneous Endoscopic Approach		
021049C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
021049F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
021049W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
02104A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue,	PX	ICD-10-CM
0240440	Percutaneous Endoscopic Approach	D)/	100 40 604
02104A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial	PX	ICD-10-CM
0240440	Tissue, Percutaneous Endoscopic Approach	DV	ICD 10 CM
02104A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial	PX	ICD-10-CM
0210446	Tissue, Percutaneous Endoscopic Approach	DV	ICD 10 CM
02104AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue,	PX	ICD-10-CM
0210445	Percutaneous Endoscopic Approach  Percutaneous Endoscopic Approach  Actor of France Andrews (Prom. Andrews And	DV	ICD 10 CM
02104AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue,	PX	ICD-10-CM
UZ1U4AVV		PA	ICD-10-CIVI
02104D4	Percutaneous Endoscopic Approach Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device,	PX	ICD-10-CM
0210404	Percutaneous Endoscopic Approach	۲۸	ICD-TO-CIAI
02104J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute,	PX	ICD-10-CM
0210413		۲۸	ICD-TO-CIAI
	Percutaneous Endoscopic Approach		

cder\_mpl2p\_wp047 Page 560 of 702



	laracteristics in this Request	Code	Code
Code	Description	Type	Category
02104J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	РХ	ICD-10-CM
02104K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	РХ	ICD-10-CM
02104K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Percutaneous Endoscopic	PX	ICD-10-CM
02104Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02104ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Percutaneous Endoscopic	PX	ICD-10-CM
02104ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211083	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0211088	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0211089	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021108C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021108F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021108W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0211093	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 561 of 702



Code	Description	Code Type	Code Category
0211098	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0211099	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021109C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021109F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021109W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
02110A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02110A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02110A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02110AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02110AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02110AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02110J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02110J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02110J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02110JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02110JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02110JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02110K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02110K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02110K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02110KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02110KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 562 of 702



		Code	Code
Code	Description	Type	Category
02110KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute,	PX	ICD-10-CM
	Open Approach		
02110Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 563 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02110Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Open Approach	PX	ICD-10-CM
02110Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Open Approach	PX	ICD-10-CM
02110ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Open Approach	PX	ICD-10-CM
02110ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Open Approach	PX	ICD-10-CM
0211344	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02113D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
0211444	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211483	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211488	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211489	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021148C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021148F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021148W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211493	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211498	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0211499	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021149C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021149F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021149W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 564 of 702



Duscinie Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02114AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02114ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0212083	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 565 of 702



Code	Description	Code	Code
	Description  Physics Corporate Arteria Three Arteries from Right Internal Mammaru with Zeonlastic Tissue	Type	ICD-10-CM
0212088	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	
0212089	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021208C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021208F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021208W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0212093	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0212098	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0212099	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021209C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021209F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021209W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
02120A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02120A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02120A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02120AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02120AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02120AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02120J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Open	PX	ICD-10-CM
02120J8	Approach Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02120J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02120JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02120JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute,  Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 566 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02120JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02120K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02120K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous	PX	ICD-10-CM
	Tissue Substitute, Open Approach		
02120K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous	PX	ICD-10-CM
	Tissue Substitute, Open Approach		
02120KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02120KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue	PX	ICD-10-CM
	Substitute, Open Approach		
02120KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute,	PX	ICD-10-CM
	Open Approach		
02120Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Open Approach	PX	ICD-10-CM
02120Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Open Approach	PX	ICD-10-CM
02120Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Open Approach	PX	ICD-10-CM
02120ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Open Approach	PX	ICD-10-CM
02120ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Open Approach	PX	ICD-10-CM
0212344	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal	PX	ICD-10-CM
0040004	Device, Percutaneous Approach	51/	100 40 014
02123D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device,	PX	ICD-10-CM
0242444	Percutaneous Approach	DV	ICD 40 CN4
0212444	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal	PX	ICD-10-CM
0212402	Device, Percutaneous Endoscopic Approach	DV	ICD 10 CM
0212483	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue,	PX	ICD-10-CM
0212400	Percutaneous Endoscopic Approach	DV	ICD 10 CM
0212488	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue,	PX	ICD-10-CM
0212400	Percutaneous Endoscopic Approach  Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue,	PX	ICD-10-CM
0212489	Percutaneous Endoscopic Approach	ΓΛ	ICD-10-CIVI
021248C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue,	PX	ICD-10-CM
021246C	Percutaneous Endoscopic Approach	ΓA	ICD-10-CIVI
021248F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue,	PX	ICD-10-CM
0212401	Percutaneous Endoscopic Approach	1 /	ICD-10-CIVI
021248W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Percutaneous	PX	ICD-10-CM
021240	Endoscopic Approach	1 /	ICD-10-CIVI
0212493	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue,	PX	ICD-10-CM
5212 755	Percutaneous Endoscopic Approach		100 10 0141
0212498	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous	PX	ICD-10-CM
5212 150	Venous Tissue, Percutaneous Endoscopic Approach		100 10 0141
0212499		PΧ	ICD-10-CM
0212499	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10

cder\_mpl2p\_wp047 Page 567 of 702



		Code	Code
Code	Description	Туре	Category
021249C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021249F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021249W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute,	PX	ICD-10-CM
02124J8	Percutaneous Endoscopic Approach  Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic	PX	ICD-10-CM
02124J9	Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic	PX	ICD-10-CM
02124JC	Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute,	PX	ICD-10-CM
02124JF	Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute,	PX	ICD-10-CM
02124JW	Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Percutaneous	PX	ICD-10-CM
02124K3	Endoscopic Approach Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue	PX	ICD-10-CM
02124K8	Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous	PX	ICD-10-CM
02124K9	Tissue Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous	PX	ICD-10-CM
02124KC	Tissue Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue	PX	ICD-10-CM
02124KF	Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 568 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02124KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02124ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0213083	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0213088	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0213089	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021308C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021308W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
0213093	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0213098	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
0213099	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021309C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021309F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021309W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
02130A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02130A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02130A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 569 of 702



Code	Description	Code Type	Code Category
02130AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02130AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02130AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
02130J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02130J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02130J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02130JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02130JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02130JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Open Approach	PX	ICD-10-CM
02130K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02130K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02130K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with  Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02130KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02130KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02130KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
02130Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Open Approach	PX	ICD-10-CM
02130Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Open	PX	ICD-10-CM
02130Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Open Approach	PX	ICD-10-CM
02130ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Open Approach	PX	ICD-10-CM
02130ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Open Approach	PX	ICD-10-CM
0213344	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02133D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	РХ	ICD-10-CM
0213444	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0213483	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 570 of 702



		Code	Code
Code	Description	Туре	Category
0213488	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0213489	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021348C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021348F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021348W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0213493	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0213498	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0213499	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021349C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021349F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021349W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02134J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic	PX	ICD-10-CM
02134J9	Substitute, Percutaneous Endoscopic Approach Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 571 of 702



		Code	Code
Code	Description	Туре	Category
02134JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic	PX	ICD-10-CM
	Substitute, Percutaneous Endoscopic Approach		
02134JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic	PX	ICD-10-CM
	Substitute, Percutaneous Endoscopic Approach		
02134JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
02134K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous	PX	ICD-10-CM
	Tissue Substitute, Percutaneous Endoscopic Approach		
02134K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with	PX	ICD-10-CM
0242440	Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	D)/	100 40 614
02134K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with	PX	ICD-10-CM
0242446	Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	D)/	100 40 614
02134KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous	PX	ICD-10-CM
0242445	Tissue Substitute, Percutaneous Endoscopic Approach	DV	ICD 40 CN4
02134KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous	PX	ICD-10-CM
021246/4/	Tissue Substitute, Percutaneous Endoscopic Approach	DV	ICD 10 CM
02134KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue	PX	ICD-10-CM
02134Z3	Substitute, Percutaneous Endoscopic Approach  Burass Coronary Artery Four or More Arteries from Coronary Artery Percutaneous	PX	ICD-10-CM
0213423	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Percutaneous Endoscopic Approach	PA	ICD-10-CIVI
02134Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Percutaneous	PX	ICD-10-CM
0213420	Endoscopic Approach	FA	ICD-10-CIVI
02134Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Percutaneous	PX	ICD-10-CM
0213423	Endoscopic Approach	17	ICD 10 CIVI
02134ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Percutaneous	PX	ICD-10-CM
0210 120	Endoscopic Approach		100 10 011
02134ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
021K0Z5	Bypass Right Ventricle to Coronary Circulation, Open Approach	PX	ICD-10-CM
021K0Z8	Bypass Right Ventricle to Right Internal Mammary, Open Approach	PX	ICD-10-CM
021K0Z9	Bypass Right Ventricle to Left Internal Mammary, Open Approach	PX	ICD-10-CM
021K0ZC	Bypass Right Ventricle to Thoracic Artery, Open Approach	PX	ICD-10-CM
021K0ZF	Bypass Right Ventricle to Abdominal Artery, Open Approach	PX	ICD-10-CM
021K0ZW	Bypass Right Ventricle to Aorta, Open Approach	PX	ICD-10-CM
021K4Z5	Bypass Right Ventricle to Coronary Circulation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021K4Z8	Bypass Right Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021K4Z9	Bypass Right Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021K4ZC	Bypass Right Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021K4ZF	Bypass Right Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021K4ZW	Bypass Right Ventricle to Aorta, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L08P	Bypass Left Ventricle to Pulmonary Trunk with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021L08Q	Bypass Left Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM
021L08R	Bypass Left Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 572 of 702



		Code	Code
Code	Description	Type	Category
021L09P	Bypass Left Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	PX	ICD-10-CM
021L09Q	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Open	PX	ICD-10-CM
0041000	Approach	51/	100 10 011
021L09R	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Open	PX	ICD-10-CM
021L0AP	Bypass Left Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
021L0AQ	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	PX	ICD-10-CM
021L0AR	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Open	PX	ICD-10-CM
021L0JP	Bypass Left Ventricle to Pulmonary Trunk with Synthetic Substitute, Open Approach	PX	ICD-10-CM
021L0JQ	Bypass Left Ventricle to Right Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
021L0JR	Bypass Left Ventricle to Left Pulmonary Artery with Synthetic Substitute, Open Approach	PX	ICD-10-CM
021L0KP	Bypass Left Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
021L0KQ	Bypass Left Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
021L0KR	Bypass Left Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	PX	ICD-10-CM
021L0Z5	Bypass Left Ventricle to Coronary Circulation, Open Approach	PX	ICD-10-CM
021L0Z8	Bypass Left Ventricle to Right Internal Mammary, Open Approach	PX	ICD-10-CM
021L0Z9	Bypass Left Ventricle to Left Internal Mammary, Open Approach	PX	ICD-10-CM
021L0ZC	Bypass Left Ventricle to Thoracic Artery, Open Approach	PX	ICD-10-CM
021L0ZF	Bypass Left Ventricle to Abdominal Artery, Open Approach	PX	ICD-10-CM
021L0ZP	Bypass Left Ventricle to Pulmonary Trunk, Open Approach	PX	ICD-10-CM
021L0ZQ	Bypass Left Ventricle to Right Pulmonary Artery, Open Approach	PX	ICD-10-CM
021L0ZR	Bypass Left Ventricle to Left Pulmonary Artery, Open Approach	PX	ICD-10-CM
021L48P	Bypass Left Ventricle to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L48Q	Bypass Left Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L48R	Bypass Left Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L49P	Bypass Left Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L49Q	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L49R	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4AP	Bypass Left Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4AQ	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4AR	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 573 of 702



Code	Description	Code Type	Code Category
021L4JP	Bypass Left Ventricle to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-CM
UZIL4JP	Approach	FΛ	ICD-10-CIVI
021L4JQ	Bypass Left Ventricle to Right Pulmonary Artery with Synthetic Substitute, Percutaneous	PX	ICD-10-CM
021L4JQ	Endoscopic Approach	1 /	ICD-10-CIVI
021L4JR	Bypass Left Ventricle to Left Pulmonary Artery with Synthetic Substitute, Percutaneous	PX	ICD-10-CM
OZIL <del>4</del> JIX	Endoscopic Approach	1 /	ICD-10-CIVI
021L4KP	Bypass Left Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute,	PX	ICD-10-CM
UZIL4KI	Percutaneous Endoscopic Approach	1 /	ICD-10-CIVI
021L4KQ	Bypass Left Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute,	PX	ICD-10-CM
021L4KQ	Percutaneous Endoscopic Approach	1 /	ICD-10-CIVI
021L4KR	Bypass Left Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute,	PX	ICD-10-CM
OZILHKK	Percutaneous Endoscopic Approach	17	ICD TO CIVI
021L4Z5	Bypass Left Ventricle to Coronary Circulation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4Z8	Bypass Left Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4Z9	Bypass Left Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4ZC	Bypass Left Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4ZF	Bypass Left Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4ZP	Bypass Left Ventricle to Pulmonary Trunk, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4ZQ	Bypass Left Ventricle to Right Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
021L4ZR	Bypass Left Ventricle to Left Pulmonary Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0270046	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device,	PX	ICD-10-CM
	Open Approach		
027004Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Open	PX	ICD-10-CM
0270056	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal	PX	ICD-10-CM
	Devices, Open Approach		
027005Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Open	PX	ICD-10-CM
	Approach		
0270066	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal	PX	ICD-10-CM
	Devices, Open Approach		
027006Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Open	PX	ICD-10-CM
	Approach		
0270076	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting	PX	ICD-10-CM
	Intraluminal Devices, Open Approach		
027007Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices,	PX	ICD-10-CM
	Open Approach		
02700D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Open	PX	ICD-10-CM
02700DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Open Approach	PX	ICD-10-CM
02700E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Open	PX	ICD-10-CM
	Approach		
02700EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM
02700F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Open	PX	ICD-10-CM
	Approach		
02700FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 574 of 702



	haracteristics in this Request	Code	Code
Code	Description	Type	Category
02700G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02700GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02700T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02700TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02700Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Open Approach	PX	ICD-10-CM
02700ZZ	Dilation of Coronary Artery, One Artery, Open Approach	PX	ICD-10-CM
0270346	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
027034Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
0270356	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027035Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0270366	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027036Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0270376	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027037Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02703D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02703DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02703E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02703EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous	PX	ICD-10-CM
02703F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02703FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02703G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02703GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02703T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02703TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 575 of 702



Baseline C	haracteristics in this Request	Code	Code
Code	Description	Type	Category
02703Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02703ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-CM
0270446	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device,	PX	ICD-10-CM
0270110	Percutaneous Endoscopic Approach	. , .	.02 20 0
027044Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0270456	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal	PX	ICD-10-CM
	Devices, Percutaneous Endoscopic Approach		
027045Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
0270466	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal	PX	ICD-10-CM
	Devices, Percutaneous Endoscopic Approach		
027046Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
0270476	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting	PX	ICD-10-CM
	Intraluminal Devices, Percutaneous Endoscopic Approach		
027047Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
02704D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
02704DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
02704E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
02704EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
02704F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach		
02704FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous	PX	ICD-10-CM
2272426	Endoscopic Approach	5.4	
02704G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices,	PX	ICD-10-CM
	Percutaneous Endoscopic Approach	5.4	
02704GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices,	PX	ICD-10-CM
0270476	Percutaneous Endoscopic Approach	DV	ICD 40 CM
02704T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device,	PX	ICD-10-CM
0270477	Percutaneous Endoscopic Approach Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous	DV	ICD 10 CM
02704TZ		PX	ICD-10-CM
0270476	Endoscopic Approach  Dilation of Coronary Artery, One Artery, Bifurcation, Bercutaneous Endoscopic Approach	DV	ICD 10 CM
02704Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach  Dilation of Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX PX	ICD-10-CM ICD-10-CM
02704ZZ 0271046	Dilation of Coronary Artery, One Artery, Percutaneous Endoscopic Approach  Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device,	PX	ICD-10-CM
02/1040		۲۸	ICD-TO-CIVI
	Open Approach		

cder\_mpl2p\_wp047 Page 576 of 702



		Code	Code
Code	Description	Type	Category
027104Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-CM
0271056	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
027105Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
0271066	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
027106Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
0271076	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
027107Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
02710D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-CM
02710DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Open Approach	PX	ICD-10-CM
02710E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM
02710EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM
02710F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	РХ	ICD-10-CM
02710FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Open Approach	PX	ICD-10-CM
02710G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02710GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02710T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02710TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Open	PX	ICD-10-CM
02710Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Open Approach	PX	ICD-10-CM
02710ZZ	Dilation of Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-CM
0271346	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
027134Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
0271356	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027135Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0271366	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 577 of 702



Code	Description	Code Type	Code Category
027136Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0271376	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027137Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02713DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02713E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02713T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02713TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02713Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02713ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-CM
0271446	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027144Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0271456	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027145Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0271466	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027146Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0271476	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027147Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 578 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02714D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
)2714FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02714Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
2714ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-CM
272046	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-CM
)27204Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-CM
272056	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
)27205Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
272066	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
)27206Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
272076	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
)27207Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
)2720D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-CM
)2720DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Open Approach	PX	ICD-10-CM
02720E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 579 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02720EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM
02720F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-CM
02720FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Open Approach	PX	ICD-10-CM
02720G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02720GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02720T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02720TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02720Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Open Approach	PX	ICD-10-CM
02720ZZ	Dilation of Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-CM
0272346	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
027234Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
0272356	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027235Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0272366	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027236Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0272376	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027237Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02723D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02723DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02723E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02723EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02723F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02723FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02723G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 580 of 702



		Code	Code
Code	Description	Type	Category
02723GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02723T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02723TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02723Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02723ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-CM
0272446	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027244Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0272456	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027245Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0272466	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027246Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0272476	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027247Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 581 of 702



Code	Description	Code Type	Code Category
02724TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device,	PX	ICD-10-CM
02/2412	Percutaneous Endoscopic Approach	PA	ICD-10-CIVI
02724Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02724ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0273046	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-CM
027304Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Open Approach	PX	ICD-10-CM
0273056	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
027305Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
0273066	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
027306Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
0273076	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug- eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
027307Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Open Approach	PX	ICD-10-CM
02730DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Open Approach	PX	ICD-10-CM
02730E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Open Approach	PX	ICD-10-CM
02730T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02730TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Open Approach	PX	ICD-10-CM
02730Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	PX	ICD-10-CM
02730ZZ	Dilation of Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-CM
0273346	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 582 of 702



		Code	Code
Code	Description	Туре	Category
027334Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
0273356	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027335Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0273366	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027336Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
0273376	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug- eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
027337Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02733DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02733E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Approach	PX	ICD-10-CM
02733T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02733TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Approach	PX	ICD-10-CM
02733Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02733ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-CM
0273446	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027344Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0273456	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 583 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
027345Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal	PX	ICD-10-CM
	Devices, Percutaneous Endoscopic Approach		
0273466	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027346Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0273476	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug- eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
027347Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02734ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02C00Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Open Approach	PX	ICD-10-CM
02C00ZZ	Extirpation of Matter from Coronary Artery, One Artery, Open Approach	PX	ICD-10-CM
02C03Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02C03ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 584 of 702



Jaconii C	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
02C04Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
02C04ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02C10Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Open Approach	PX	ICD-10-CM
02C10ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Open Approach	PX	ICD-10-CM
02C13Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous	PX	ICD-10-CM
02C13ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Approach	PX	ICD-10-CM
02C14Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02C14ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Endoscopic	PX	ICD-10-CM
02C20Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Open Approach	PX	ICD-10-CM
02C20ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Open Approach	PX	ICD-10-CM
02C23Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02C23ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Approach	PX	ICD-10-CM
02C24Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02C24ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02C30Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	РХ	ICD-10-CM
02C30ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Open Approach	PX	ICD-10-CM
02C33Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	PX	ICD-10-CM
02C33ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Approach	PX	ICD-10-CM
02C34Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02C34ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02QA0ZZ	Repair Heart, Open Approach	PX	ICD-10-CM
02QA3ZZ	Repair Heart, Percutaneous Approach	PX	ICD-10-CM
02QA4ZZ	Repair Heart, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02QB0ZZ	Repair Right Heart, Open Approach	PX	ICD-10-CM
02QB3ZZ	Repair Right Heart, Percutaneous Approach	PX	ICD-10-CM
02QB4ZZ	Repair Right Heart, Percutaneous Endoscopic Approach	PX	ICD-10-CM
02QC0ZZ	Repair Left Heart, Open Approach	PX	ICD-10-CM
02QC3ZZ	Repair Left Heart, Percutaneous Approach	PX	ICD-10-CM
02QC4ZZ	Repair Left Heart, Percutaneous Endoscopic Approach	PX	ICD-10-CM
3E07017	Introduction of Other Thrombolytic into Coronary Artery, Open Approach	PX	ICD-10-CM
3E070PZ	Introduction of Platelet Inhibitor into Coronary Artery, Open Approach	PX	ICD-10-CM
3E07317	Introduction of Other Thrombolytic into Coronary Artery, Percutaneous Approach	PX	ICD-10-CM
3E073PZ	Introduction of Platelet Inhibitor into Coronary Artery, Percutaneous Approach	PX	ICD-10-CM
00567	Anesthesia for direct coronary artery bypass grafting; with pump oxygenator	PX	CPT-4

cder\_mpl2p\_wp047 Page 585 of 702



	characteristics in this request	Code	Code
Code	Description	Type	Category
35600	Harvest of upper extremity artery, 1 segment, for coronary artery bypass procedure (List separately in addition to code for primary procedure)	PX	CPT-4
93455	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography	PX	CPT-4
93457	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization	PX	CPT-4
93459	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	PX	CPT-4
93461	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	PX	CPT-4
93508	Catheter placement in coronary artery(s), arterial coronary conduit(s), and/or venous coronary bypass graft(s) for coronary angiography without concomitant left heart	PX	CPT-4
93556	Imaging supervision, interpretation and report for injection procedure(s) during cardiac catheterization; pulmonary angiography, aortography, and/or selective coronary angiography including venous bypass grafts and arterial conduits (whether native or used in bypass)	PX	CPT-4
	Heart failure		
402.01	Malignant hypertensive heart disease with heart failure	DX	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	DX	ICD-9-CM
102.91	Hypertensive heart disease, unspecified, with heart failure	DX	ICD-9-CM
04.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
104.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
104.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	DX	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	DX	ICD-9-CM
428	Heart failure	DX	ICD-9-CM
428.0	Congestive heart failure, unspecified	DX	ICD-9-CM

cder\_mpl2p\_wp047 Page 586 of 702



Baseline C	haracteristics in this Request		
		Code	Code
Code	Description	Туре	Category
428.1	Left heart failure	DX	ICD-9-CM
428.2	Systolic heart failure	DX	ICD-9-CM
428.20	Unspecified systolic heart failure	DX	ICD-9-CM
428.21	Acute systolic heart failure	DX	ICD-9-CM
428.22	Chronic systolic heart failure	DX	ICD-9-CM
428.23	Acute on chronic systolic heart failure	DX	ICD-9-CM
428.3	Diastolic heart failure	DX	ICD-9-CM
428.30	Unspecified diastolic heart failure	DX	ICD-9-CM
428.31	Acute diastolic heart failure	DX	ICD-9-CM
428.32	Chronic diastolic heart failure	DX	ICD-9-CM
428.33	Acute on chronic diastolic heart failure	DX	ICD-9-CM
428.4	Combined systolic and diastolic heart failure	DX	ICD-9-CM
428.40	Unspecified combined systolic and diastolic heart failure	DX	ICD-9-CM
428.41	Acute combined systolic and diastolic heart failure	DX	ICD-9-CM
428.42	Chronic combined systolic and diastolic heart failure	DX	ICD-9-CM
428.43	Acute on chronic combined systolic and diastolic heart failure	DX	ICD-9-CM
428.9	Unspecified heart failure	DX	ICD-9-CM
37.66	Insertion of implantable heart assist system	PX	ICD-9-CM
33980	Removal of ventricular assist device, implantable intracorporeal, single ventricle	PX	CPT-4
92970	Cardioassist-method of circulatory assist; internal	PX	CPT-4
92971	Cardioassist-method of circulatory assist; external	PX	CPT-4
G8027	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on	PX	HCPCS
	either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or		
	ARB) therapy		
G8028	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be	PX	HCPCS
	on either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or		
	ARB) therapy		
G8029	Clinician documented that heart failure patient was not an eligible candidate for either	PX	HCPCS
	angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or ARB)		
	therapy measure		
G8030	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on	PX	HCPCS
	beta-blocker therapy		
G8031	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be	PX	HCPCS
	on beta-blocker therapy		
G8032	Clinician documented that heart failure patient was not eligible candidate for beta-blocker	PX	HCPCS
	therapy measure		
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible	PX	HCPCS
	candidate for warfarin therapy measure		
I11.0	Hypertensive heart disease with heart failure	DX	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4	DX	ICD-10-CM
	chronic kidney disease, or unspecified chronic kidney disease		
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic	DX	ICD-10-CM
	kidney disease, or end stage renal disease		

cder\_mpl2p\_wp047 Page 587 of 702



Baseline Ch	naracteristics in this Request	C- !	0. 1
Code	Description	Code Type	Code
150.1	Left ventricular failure, unspecified	DX	ICD-10-CM
150.1	Unspecified systolic (congestive) heart failure	DX	ICD-10-CM
150.20	Acute systolic (congestive) heart failure	DX	ICD-10-CM
150.21	Chronic systolic (congestive) heart failure	DX	ICD-10-CIVI
150.22	Acute on chronic systolic (congestive) heart failure	DX	ICD-10-CM
150.23	Unspecified diastolic (congestive) heart failure	DX	ICD-10-CM
150.30	Acute diastolic (congestive) heart failure	DX	ICD-10-CIVI
150.31	Chronic diastolic (congestive) heart failure	DX	ICD-10-CM
150.32	Acute on chronic diastolic (congestive) heart failure	DX	ICD-10-CM
150.33	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.40	Acute combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.41	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.42	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure		ICD-10-CM
150.45		DX DX	ICD-10-CM
	Right heart failure, unspecified		
150.811	Acute right heart failure	DX	ICD-10-CM
150.812	Chronic right heart failure	DX	ICD-10-CM ICD-10-CM
150.813	Acute on chronic right heart failure	DX	
150.814	Right heart failure due to left heart failure	DX	ICD-10-CM
150.82	Biventricular heart failure	DX	ICD-10-CM
150.83	High output heart failure	DX	ICD-10-CM
150.84	End stage heart failure	DX	ICD-10-CM
150.89	Other heart failure	DX	ICD-10-CM
150.9	Heart failure, unspecified	DX	ICD-10-CM
02HA0QZ	Insertion of Implantable Heart Assist System into Heart, Open Approach	PX	ICD-10-CM
02HA3QZ	Insertion of Implantable Heart Assist System into Heart, Percutaneous Approach	PX	ICD-10-CM
02HA4QZ	Insertion of Implantable Heart Assist System into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-CM
G8183	Patient with heart failure and atrial fibrillation documented to be on warfarin therapy	PX	HCPCS
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible	PX	HCPCS
	candidate for warfarin therapy measure		
402.01	Malignant hypertensive heart disease with heart failure	DX	ICD-09-CM
402.11	Benign hypertensive heart disease with heart failure	DX	ICD-09-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	DX	ICD-09-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic	DX	ICD-09-CM
	kidney disease stage I through stage IV, or unspecified		
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic	DX	ICD-09-CM
	kidney disease stage V or end stage renal disease		
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic	DX	ICD-09-CM
	kidney disease stage I through stage IV, or unspecified		
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney	DX	ICD-09-CM
	disease stage V or end stage renal disease		
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with	DX	ICD-09-CM
	chronic kidney disease stage I through stage IV, or unspecified		

cder\_mpl2p\_wp047 Page 588 of 702



Dascinie (	Characteristics in this Request	Code	Code
Code	Description	Туре	Category
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic	DX	ICD-09-CM
	kidney disease stage V or end stage renal disease		
428	Heart failure	DX	ICD-09-CM
428.0	Congestive heart failure, unspecified	DX	ICD-09-CM
428.1	Left heart failure	DX	ICD-09-CM
428.2	Systolic heart failure	DX	ICD-09-CM
428.20	Unspecified systolic heart failure	DX	ICD-09-CM
428.21	Acute systolic heart failure	DX	ICD-09-CM
428.22	Chronic systolic heart failure	DX	ICD-09-CM
428.23	Acute on chronic systolic heart failure	DX	ICD-09-CM
428.3	Diastolic heart failure	DX	ICD-09-CM
428.30	Unspecified diastolic heart failure	DX	ICD-09-CM
428.31	Acute diastolic heart failure	DX	ICD-09-CM
428.32	Chronic diastolic heart failure	DX	ICD-09-CM
428.33	Acute on chronic diastolic heart failure	DX	ICD-09-CM
428.4	Combined systolic and diastolic heart failure	DX	ICD-09-CM
428.40	Unspecified combined systolic and diastolic heart failure	DX	ICD-09-CM
428.41	Acute combined systolic and diastolic heart failure	DX	ICD-09-CM
428.42	Chronic combined systolic and diastolic heart failure	DX	ICD-09-CM
428.43	Acute on chronic combined systolic and diastolic heart failure	DX	ICD-09-CM
428.9	Unspecified heart failure	DX	ICD-09-CM
37.66	Insertion of implantable heart assist system	PX	ICD-09-CM
33980	Removal of ventricular assist device, implantable intracorporeal, single ventricle	PX	CPT-4
92970	Cardioassist-method of circulatory assist; internal	PX	CPT-4
92971	Cardioassist-method of circulatory assist; external	PX	CPT-4
G8027	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on	PX	HCPCS
	either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or		
	ARB) therapy		
G8028	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be	PX	HCPCS
	on either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or		
	ARB) therapy		
G8029	Clinician documented that heart failure patient was not an eligible candidate for either	PX	HCPCS
	angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or ARB)		
	therapy measure		
G8030	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on	PX	HCPCS
	beta-blocker therapy		
G8031	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be	PX	HCPCS
	on beta-blocker therapy		
G8032	Clinician documented that heart failure patient was not eligible candidate for beta-blocker	PX	HCPCS
<del>-</del>	therapy measure	-	
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible	PX	HCPCS
	candidate for warfarin therapy measure		<del></del>
111.0	Hypertensive heart disease with heart failure	DX	ICD-10-CM
	, per senere meure alleuse meure allure	ΣN	.02 10 0.01

cder\_mpl2p\_wp047 Page 589 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
113.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4	DX	ICD-10-CM
	chronic kidney disease, or unspecified chronic kidney disease		
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic	DX	ICD-10-CM
	kidney disease, or end stage renal disease		
150.1	Left ventricular failure, unspecified	DX	ICD-10-CM
150.20	Unspecified systolic (congestive) heart failure	DX	ICD-10-CM
150.21	Acute systolic (congestive) heart failure	DX	ICD-10-CM
150.22	Chronic systolic (congestive) heart failure	DX	ICD-10-CM
150.23	Acute on chronic systolic (congestive) heart failure	DX	ICD-10-CM
150.30	Unspecified diastolic (congestive) heart failure	DX	ICD-10-CM
150.31	Acute diastolic (congestive) heart failure	DX	ICD-10-CM
150.32	Chronic diastolic (congestive) heart failure	DX	ICD-10-CM
150.33	Acute on chronic diastolic (congestive) heart failure	DX	ICD-10-CM
150.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	DX	ICD-10-CM
150.810	Right heart failure, unspecified	DX	ICD-10-CM
150.811	Acute right heart failure	DX	ICD-10-CM
150.812	Chronic right heart failure	DX	ICD-10-CM
150.813	Acute on chronic right heart failure	DX	ICD-10-CM
150.814	Right heart failure due to left heart failure	DX	ICD-10-CM
150.82	Biventricular heart failure	DX	ICD-10-CM
150.83	High output heart failure	DX	ICD-10-CM
150.84	End stage heart failure	DX	ICD-10-CM
150.89	Other heart failure	DX	ICD-10-CM
150.9	Heart failure, unspecified	DX	ICD-10-CM
02HA0QZ	Insertion of Implantable Heart Assist System into Heart, Open Approach	PX	ICD-10-CM
02HA3QZ	Insertion of Implantable Heart Assist System into Heart, Percutaneous Approach	PX	ICD-10-CM
02HA4QZ	Insertion of Implantable Heart Assist System into Heart, Percutaneous Endoscopic Approach	PX	ICD-10-CM
G8183	Patient with heart failure and atrial fibrillation documented to be on warfarin therapy	PX	HCPCS
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible	PX	HCPCS
	candidate for warfarin therapy measure		
G8681	Patient hospitalized with principal diagnosis of heart failure during the measurement period	PX	HCPCS
	Other ischemic heart disease		
411	Other acute and subacute forms of ischemic heart disease	DX	ICD-09-CM
411.0	Postmyocardial infarction syndrome	DX	ICD-09-CM
411.1	Intermediate coronary syndrome	DX	ICD-09-CM
411.8	Other acute and subacute forms of ischemic heart disease	DX	ICD-09-CM
411.81	Acute coronary occlusion without myocardial infarction	DX	ICD-09-CM
411.89	Other acute and subacute form of ischemic heart disease	DX	ICD-09-CM
413	Angina pectoris	DX	ICD-09-CM
413.0	Angina decubitus	DX	ICD-09-CM
713.0	Aligina accubitus	DΛ	100-03-01

cder\_mpl2p\_wp047 Page 590 of 702



	haracteristics in this Request	Code	Code
Code	Description	Туре	Category
413.1	Prinzmetal angina	DX	ICD-09-CM
413.9	Other and unspecified angina pectoris	DX	ICD-09-CM
414	Other forms of chronic ischemic heart disease	DX	ICD-09-CM
414.0	Coronary atherosclerosis	DX	ICD-09-CM
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	DX	ICD-09-CM
414.01	Coronary atherosclerosis of native coronary artery	DX	ICD-09-CM
414.02	Coronary atherosclerosis of autologous vein bypass graft	DX	ICD-09-CM
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	DX	ICD-09-CM
414.04	Coronary atherosclerosis of artery bypass graft	DX	ICD-09-CM
414.05	Coronary atherosclerosis of unspecified type of bypass graft	DX	ICD-09-CM
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	DX	ICD-09-CM
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	DX	ICD-09-CM
414.1	Aneurysm and dissection of heart	DX	ICD-09-CM
414.10	Aneurysm of heart	DX	ICD-09-CM
414.11	Aneurysm of coronary vessels	DX	ICD-09-CM
414.12	Dissection of coronary artery	DX	ICD-09-CM
414.19	Other aneurysm of heart	DX	ICD-09-CM
414.2	Chronic total occlusion of coronary artery	DX	ICD-09-CM
414.3	Coronary atherosclerosis due to lipid rich plaque	DX	ICD-09-CM
414.4	Coronary atherosclerosis due to calcified coronary lesion	DX	ICD-09-CM
414.8	Other specified forms of chronic ischemic heart disease	DX	ICD-09-CM
414.9	Unspecified chronic ischemic heart disease	DX	ICD-09-CM
429.2	Unspecified cardiovascular disease	DX	ICD-09-CM
429.5	Rupture of chordae tendineae	DX	ICD-09-CM
429.6	Rupture of papillary muscle	DX	ICD-09-CM
429.7	Certain sequelae of myocardial infarction, not elsewhere classified	DX	ICD-09-CM
429.71	Acquired cardiac septal defect	DX	ICD-09-CM
429.79	Other certain sequelae of myocardial infarction, not elsewhere classified	DX	ICD-09-CM
429.9	Unspecified heart disease	DX	ICD-09-CM
G8033	Prior myocardial infarction, coronary artery disease patient documented to be on beta- blocker therapy	PX	HCPCS
G8034	Prior myocardial infarction, coronary artery disease patient not documented to be on beta- blocker therapy	PX	HCPCS
G8035	Clinician documented that prior myocardial infarction, coronary artery disease patient was not eligible candidate for beta-blocker therapy measure	PX	HCPCS
G8036	Coronary artery disease patient documented to be on antiplatelet therapy	PX	HCPCS
G8037	Coronary artery disease patient not documented to be on antiplatelet therapy	PX	HCPCS
G8038	Clinician documented that coronary artery disease patient was not eligible candidate for antiplatelet therapy measure	РХ	HCPCS
G8039	Coronary artery disease patient with low-density lipoprotein documented to be greater than 100 mg/dl	PX	HCPCS
G8040	Coronary artery disease patient with low-density lipoprotein documented to be less than or equal to 100 mg/dl	PX	HCPCS

cder\_mpl2p\_wp047 Page 591 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
G8041	Clinician documented that coronary artery disease patient was not eligible candidate for low-	PX	HCPCS
	density lipoprotein measure		
120.0	Unstable angina	DX	ICD-10-CM
120.1	Angina pectoris with documented spasm	DX	ICD-10-CM
120.8	Other forms of angina pectoris	DX	ICD-10-CM
120.9	Angina pectoris, unspecified	DX	ICD-10-CM
123.0	Hemopericardium as current complication following acute myocardial infarction	DX	ICD-10-CM
123.1	Atrial septal defect as current complication following acute myocardial infarction	DX	ICD-10-CM
123.2	Ventricular septal defect as current complication following acute myocardial infarction	DX	ICD-10-CM
123.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	DX	ICD-10-CM
123.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	DX	ICD-10-CM
123.5	Rupture of papillary muscle as current complication following acute myocardial infarction	DX	ICD-10-CM
123.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	DX	ICD-10-CM
123.7	Postinfarction angina	DX	ICD-10-CM
123.8	Other current complications following acute myocardial infarction	DX	ICD-10-CM
124.0	Acute coronary thrombosis not resulting in myocardial infarction	DX	ICD-10-CM
124.1	Dressler's syndrome	DX	ICD-10-CM
124.8	Other forms of acute ischemic heart disease	DX	ICD-10-CM
124.9	Acute ischemic heart disease, unspecified	DX	ICD-10-CM
125.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	DX	ICD-10-CM
125.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	DX	ICD-10-CM
125.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	DX	ICD-10-CM
125.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	DX	ICD-10-CM
125.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	DX	ICD-10-CM
125.3	Aneurysm of heart	DX	ICD-10-CM
125.41	Coronary artery aneurysm	DX	ICD-10-CM
125.42	Coronary artery dissection	DX	ICD-10-CM
125.5	Ischemic cardiomyopathy	DX	ICD-10-CM
125.6	Silent myocardial ischemia	DX	ICD-10-CM
125.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	DX	ICD-10-CM
125.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	DX	ICD-10-CM
125.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	DX	ICD-10-CM
125.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	DX	ICD-10-CM
125.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	DX	ICD-10-CM
125.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 592 of 702



Code	Description	Code Type	Code Category
125.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	DX	ICD-10-CM
125.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	DX	ICD-10-CM
125.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	DX	ICD-10-CM
125.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	DX	ICD-10-CM
125.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	DX	ICD-10-CM
125.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	DX	ICD-10-CM
125.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	DX	ICD-10-CM
125.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	DX	ICD-10-CM
125.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	DX	ICD-10-CM
125.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	DX	ICD-10-CM
125.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	DX	ICD-10-CM
125.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	DX	ICD-10-CM
125.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	DX	ICD-10-CM
125.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	DX	ICD-10-CM
125.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	DX	ICD-10-CM
125.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	DX	ICD-10-CM
125.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	DX	ICD-10-CM
125.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	DX	ICD-10-CM
125.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	DX	ICD-10-CM
125.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	DX	ICD-10-CM
125.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	DX	ICD-10-CM
125.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	DX	ICD-10-CM
125.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	DX	ICD-10-CM
125.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	DX	ICD-10-CM
125.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 593 of 702



Dascinie C	naracteristics in this request	Code	Code
Code	Description	Туре	Category
125.82	Chronic total occlusion of coronary artery	DX	ICD-10-CM
125.83	Coronary atherosclerosis due to lipid rich plaque	DX	ICD-10-CM
125.84	Coronary atherosclerosis due to calcified coronary lesion	DX	ICD-10-CM
125.89	Other forms of chronic ischemic heart disease	DX	ICD-10-CM
125.9	Chronic ischemic heart disease, unspecified	DX	ICD-10-CM
I51.0	Cardiac septal defect, acquired	DX	ICD-10-CM
I51.1	Rupture of chordae tendineae, not elsewhere classified	DX	ICD-10-CM
I51.2	Rupture of papillary muscle, not elsewhere classified	DX	ICD-10-CM
151.9	Heart disease, unspecified	DX	ICD-10-CM
152	Other heart disorders in diseases classified elsewhere	DX	ICD-10-CM
	Stroke		
430	Subarachnoid hemorrhage	DX	ICD-09-CM
431	Intracerebral hemorrhage	DX	ICD-09-CM
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	DX	ICD-09-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	DX	ICD-09-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	DX	ICD-09-CM
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	DX	ICD-09-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	DX	ICD-09-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	DX	ICD-09-CM
434.01	Cerebral thrombosis with cerebral infarction	DX	ICD-09-CM
434.11	Cerebral embolism with cerebral infarction	DX	ICD-09-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	DX	ICD-09-CM
436	Acute, but ill-defined, cerebrovascular disease	DX	ICD-09-CM
430	Subarachnoid hemorrhage	DX	ICD-09-CM
431	Intracerebral hemorrhage	DX	ICD-09-CM
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	DX	ICD-09-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	DX	ICD-09-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	DX	ICD-09-CM
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	DX	ICD-09-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	DX	ICD-09-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	DX	ICD-09-CM
434.01	Cerebral thrombosis with cerebral infarction	DX	ICD-09-CM
434.11	Cerebral embolism with cerebral infarction	DX	ICD-09-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	DX	ICD-09-CM
436	Acute, but ill-defined, cerebrovascular disease	DX	ICD-09-CM
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	DX	ICD-10-CM
160.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	DX	ICD-10-CM
160.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	DX	ICD-10-CM
160.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	DX	ICD-10-CM
160.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	DX	ICD-10-CM
160.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	DX	ICD-10-CM
160.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	DX	ICD-10-CM
160.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 594 of 702



	aracteristics in this Request	Code	Code
Code	Description	Туре	Category
160.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	DX	ICD-10-CM
160.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	DX	ICD-10-CM
160.4	Nontraumatic subarachnoid hemorrhage from basilar artery	DX	ICD-10-CM
160.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	DX	ICD-10-CM
160.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	DX	ICD-10-CM
160.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	DX	ICD-10-CM
160.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	DX	ICD-10-CM
160.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	DX	ICD-10-CM
160.8	Other nontraumatic subarachnoid hemorrhage	DX	ICD-10-CM
160.9	Nontraumatic subarachnoid hemorrhage, unspecified	DX	ICD-10-CM
161.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	DX	ICD-10-CM
161.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	DX	ICD-10-CM
161.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	DX	ICD-10-CM
I61.3	Nontraumatic intracerebral hemorrhage in brain stem	DX	ICD-10-CM
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum	DX	ICD-10-CM
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular	DX	ICD-10-CM
161.6	Nontraumatic intracerebral hemorrhage, multiple localized	DX	ICD-10-CM
161.8	Other nontraumatic intracerebral hemorrhage	DX	ICD-10-CM
161.9	Nontraumatic intracerebral hemorrhage, unspecified	DX	ICD-10-CM
163.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	DX	ICD-10-CM
163.011	Cerebral infarction due to thrombosis of right vertebral artery	DX	ICD-10-CM
163.012	Cerebral infarction due to thrombosis of left vertebral artery	DX	ICD-10-CM
163.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	DX	ICD-10-CM
163.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	DX	ICD-10-CM
163.02	Cerebral infarction due to thrombosis of basilar artery	DX	ICD-10-CM
163.031	Cerebral infarction due to thrombosis of right carotid artery	DX	ICD-10-CM
163.032	Cerebral infarction due to thrombosis of left carotid artery	DX	ICD-10-CM
163.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	DX	ICD-10-CM
163.039	Cerebral infarction due to thrombosis of unspecified carotid artery	DX	ICD-10-CM
163.09	Cerebral infarction due to thrombosis of other precerebral artery	DX	ICD-10-CM
163.10	Cerebral infarction due to embolism of unspecified precerebral artery	DX	ICD-10-CM
163.111	Cerebral infarction due to embolism of right vertebral artery	DX	ICD-10-CM
163.112	Cerebral infarction due to embolism of left vertebral artery	DX	ICD-10-CM
163.113	Cerebral infarction due to embolism of bilateral vertebral arteries	DX	ICD-10-CM
163.119	Cerebral infarction due to embolism of unspecified vertebral artery	DX	ICD-10-CM
163.12	Cerebral infarction due to embolism of basilar artery	DX	ICD-10-CM
163.131	Cerebral infarction due to embolism of right carotid artery	DX	ICD-10-CM
163.132	Cerebral infarction due to embolism of left carotid artery	DX	ICD-10-CM
163.133	Cerebral infarction due to embolism of bilateral carotid arteries	DX	ICD-10-CM
163.139	Cerebral infarction due to embolism of unspecified carotid artery	DX	ICD-10-CM
163.19	Cerebral infarction due to embolism of other precerebral artery	DX	ICD-10-CM
163.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral	DX	ICD-10-CM
163.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 595 of 702



baseline Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
163.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	DX	ICD-10-CM
163.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	DX	ICD-10-CM
163.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery	DX	ICD-10-CM
163.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	DX	ICD-10-CM
163.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	DX	ICD-10-CM
163.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	DX	ICD-10-CM
163.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	DX	ICD-10-CM
163.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	DX	ICD-10-CM
163.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	DX	ICD-10-CM
163.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	DX	ICD-10-CM
163.311	Cerebral infarction due to thrombosis of right middle cerebral artery	DX	ICD-10-CM
163.312	Cerebral infarction due to thrombosis of left middle cerebral artery	DX	ICD-10-CM
163.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	DX	ICD-10-CM
163.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	DX	ICD-10-CM
163.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	DX	ICD-10-CM
163.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	DX	ICD-10-CM
163.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries	DX	ICD-10-CM
163.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	DX	ICD-10-CM
163.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	DX	ICD-10-CM
163.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	DX	ICD-10-CM
163.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries	DX	ICD-10-CM
163.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	DX	ICD-10-CM
163.341	Cerebral infarction due to thrombosis of right cerebellar artery	DX	ICD-10-CM
163.342	Cerebral infarction due to thrombosis of left cerebellar artery	DX	ICD-10-CM
163.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	DX	ICD-10-CM
163.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	DX	ICD-10-CM
163.39	Cerebral infarction due to thrombosis of other cerebral artery	DX	ICD-10-CM
163.40	Cerebral infarction due to embolism of unspecified cerebral artery	DX	ICD-10-CM
163.411	Cerebral infarction due to embolism of right middle cerebral artery	DX	ICD-10-CM
163.412	Cerebral infarction due to embolism of left middle cerebral artery	DX	ICD-10-CM
163.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	DX	ICD-10-CM
163.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	DX	ICD-10-CM
163.421	Cerebral infarction due to embolism of right anterior cerebral artery	DX	ICD-10-CM
163.422	Cerebral infarction due to embolism of left anterior cerebral artery	DX	ICD-10-CM
163.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	DX	ICD-10-CM
163.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	DX	ICD-10-CM
163.431	Cerebral infarction due to embolism of right posterior cerebral artery	DX	ICD-10-CM
163.432	Cerebral infarction due to embolism of left posterior cerebral artery	DX	ICD-10-CM
163.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	DX	ICD-10-CM
163.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	DX	ICD-10-CM
163.441	Cerebral infarction due to embolism of right cerebellar artery	DX	ICD-10-CM
163.442	Cerebral infarction due to embolism of left cerebellar artery	DX	ICD-10-CM
163.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 596 of 702



Dascinic C	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
163.449	Cerebral infarction due to embolism of unspecified cerebellar artery	DX	ICD-10-CM
163.49	Cerebral infarction due to embolism of other cerebral artery	DX	ICD-10-CM
163.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	DX	ICD-10-CM
163.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	DX	ICD-10-CM
163.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	DX	ICD-10-CM
163.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral	DX	ICD-10-CM
163.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	DX	ICD-10-CM
163.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	DX	ICD-10-CM
163.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	DX	ICD-10-CM
163.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	DX	ICD-10-CM
163.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	DX	ICD-10-CM
163.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	DX	ICD-10-CM
163.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	DX	ICD-10-CM
163.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	DX	ICD-10-CM
163.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	DX	ICD-10-CM
163.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	DX	ICD-10-CM
163.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	DX	ICD-10-CM
163.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	DX	ICD-10-CM
163.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	DX	ICD-10-CM
163.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	DX	ICD-10-CM
163.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	DX	ICD-10-CM
163.8	Other cerebral infarction	DX	ICD-10-CM
163.9	Cerebral infarction, unspecified	DX	ICD-10-CM
167.89	Other cerebrovascular disease	DX	ICD-10-CM
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	DX	ICD-10-CM
160.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	DX	ICD-10-CM
160.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	DX	ICD-10-CM
160.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	DX	ICD-10-CM
160.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	DX	ICD-10-CM
160.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	DX	ICD-10-CM
160.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	DX	ICD-10-CM
160.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	DX	ICD-10-CM
160.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	DX	ICD-10-CM
160.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	DX	ICD-10-CM
160.4	Nontraumatic subarachnoid hemorrhage from basilar artery	DX	ICD-10-CM
160.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	DX	ICD-10-CM
160.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	DX	ICD-10-CM
160.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 597 of 702



Daseillie Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
160.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	DX	ICD-10-CM
160.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	DX	ICD-10-CM
160.8	Other nontraumatic subarachnoid hemorrhage	DX	ICD-10-CM
160.9	Nontraumatic subarachnoid hemorrhage, unspecified	DX	ICD-10-CM
161.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	DX	ICD-10-CM
161.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	DX	ICD-10-CM
161.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	DX	ICD-10-CM
161.3	Nontraumatic intracerebral hemorrhage in brain stem	DX	ICD-10-CM
161.4	Nontraumatic intracerebral hemorrhage in cerebellum	DX	ICD-10-CM
161.5	Nontraumatic intracerebral hemorrhage, intraventricular	DX	ICD-10-CM
161.6	Nontraumatic intracerebral hemorrhage, multiple localized	DX	ICD-10-CM
161.8	Other nontraumatic intracerebral hemorrhage	DX	ICD-10-CM
161.9	Nontraumatic intracerebral hemorrhage, unspecified	DX	ICD-10-CM
163.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	DX	ICD-10-CM
163.011	Cerebral infarction due to thrombosis of right vertebral artery	DX	ICD-10-CM
163.012	Cerebral infarction due to thrombosis of left vertebral artery	DX	ICD-10-CM
163.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	DX	ICD-10-CM
163.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	DX	ICD-10-CM
163.02	Cerebral infarction due to thrombosis of basilar artery	DX	ICD-10-CM
163.031	Cerebral infarction due to thrombosis of right carotid artery	DX	ICD-10-CM
163.032	Cerebral infarction due to thrombosis of left carotid artery	DX	ICD-10-CM
163.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	DX	ICD-10-CM
163.039	Cerebral infarction due to thrombosis of unspecified carotid artery	DX	ICD-10-CM
163.09	Cerebral infarction due to thrombosis of other precerebral artery	DX	ICD-10-CM
163.10	Cerebral infarction due to embolism of unspecified precerebral artery	DX	ICD-10-CM
163.111	Cerebral infarction due to embolism of right vertebral artery	DX	ICD-10-CM
163.112	Cerebral infarction due to embolism of left vertebral artery	DX	ICD-10-CM
163.113	Cerebral infarction due to embolism of bilateral vertebral arteries	DX	ICD-10-CM
163.119	Cerebral infarction due to embolism of unspecified vertebral artery	DX	ICD-10-CM
163.12	Cerebral infarction due to embolism of basilar artery	DX	ICD-10-CM
163.131	Cerebral infarction due to embolism of right carotid artery	DX	ICD-10-CM
163.132	Cerebral infarction due to embolism of left carotid artery	DX	ICD-10-CM
163.133	Cerebral infarction due to embolism of bilateral carotid arteries	DX	ICD-10-CM
163.139	Cerebral infarction due to embolism of unspecified carotid artery	DX	ICD-10-CM
163.19	Cerebral infarction due to embolism of other precerebral artery	DX	ICD-10-CM
163.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral	DX	ICD-10-CM
163.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	DX	ICD-10-CM
163.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	DX	ICD-10-CM
163.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	DX	ICD-10-CM
163.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery	DX	ICD-10-CM
163.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	DX	ICD-10-CM
163.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	DX	ICD-10-CM
163.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 598 of 702



Dasellile Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
163.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	DX	ICD-10-CM
163.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	DX	ICD-10-CM
163.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	DX	ICD-10-CM
163.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	DX	ICD-10-CM
163.311	Cerebral infarction due to thrombosis of right middle cerebral artery	DX	ICD-10-CM
163.312	Cerebral infarction due to thrombosis of left middle cerebral artery	DX	ICD-10-CM
163.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	DX	ICD-10-CM
163.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	DX	ICD-10-CM
163.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	DX	ICD-10-CM
163.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	DX	ICD-10-CM
163.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries	DX	ICD-10-CM
163.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	DX	ICD-10-CM
163.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	DX	ICD-10-CM
163.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	DX	ICD-10-CM
163.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries	DX	ICD-10-CM
163.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	DX	ICD-10-CM
163.341	Cerebral infarction due to thrombosis of right cerebellar artery	DX	ICD-10-CM
163.342	Cerebral infarction due to thrombosis of left cerebellar artery	DX	ICD-10-CM
163.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	DX	ICD-10-CM
163.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	DX	ICD-10-CM
163.39	Cerebral infarction due to thrombosis of other cerebral artery	DX	ICD-10-CM
163.40	Cerebral infarction due to embolism of unspecified cerebral artery	DX	ICD-10-CM
163.411	Cerebral infarction due to embolism of right middle cerebral artery	DX	ICD-10-CM
163.412	Cerebral infarction due to embolism of left middle cerebral artery	DX	ICD-10-CM
163.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	DX	ICD-10-CM
163.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	DX	ICD-10-CM
163.421	Cerebral infarction due to embolism of right anterior cerebral artery	DX	ICD-10-CM
163.422	Cerebral infarction due to embolism of left anterior cerebral artery	DX	ICD-10-CM
163.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	DX	ICD-10-CM
163.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	DX	ICD-10-CM
163.431	Cerebral infarction due to embolism of right posterior cerebral artery	DX	ICD-10-CM
163.432	Cerebral infarction due to embolism of left posterior cerebral artery	DX	ICD-10-CM
163.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	DX	ICD-10-CM
163.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	DX	ICD-10-CM
163.441	Cerebral infarction due to embolism of right cerebellar artery	DX	ICD-10-CM
163.442	Cerebral infarction due to embolism of left cerebellar artery	DX	ICD-10-CM
163.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	DX	ICD-10-CM
163.449	Cerebral infarction due to embolism of unspecified cerebellar artery	DX	ICD-10-CM
163.49	Cerebral infarction due to embolism of other cerebral artery	DX	ICD-10-CM
163.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	DX	ICD-10-CM
163.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	DX	ICD-10-CM
163.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	DX	ICD-10-CM
163.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 599 of 702



artery  Ga.5.21 Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery DX IGA.5.22 Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery DX IGA.5.23 Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries  Ga.5.29 Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery DX IGA.5.31 Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery DX IGA.5.32 Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery DX IGA.5.33 Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery DX IGA.5.34 Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries  Ga.5.34 Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery DX IGA.5.41 Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery DX IGA.5.42 Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery DX IGA.5.43 Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery DX IGA.5.49 Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery DX IGA.5.40 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery DX IGA.5.40 Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery DX IGA.5.40 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery DX IGA.5.40 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery DX IGA.5.40 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery DX IGA.5.40 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery DX IGA.5.40 Cerebral in		iracteristics in this Request	Code	Code
artery  163.521 Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery DX 163.522 Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery DX 163.523 Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries  163.529 Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery DX 163.531 Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery DX 163.532 Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery DX 163.533 Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery DX 163.534 Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries  163.540 Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery DX 163.541 Cerebral infarction due to unspecified occlusion or stenosis of inspecified posterior cerebral DX artery  163.541 Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery DX 163.542 Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery DX 163.543 Cerebral infarction due to unspecified occlusion or stenosis of liberal cerebellar artery DX 163.549 Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery DX 163.59 Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery DX 163.59 Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery DX 163.59 Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery DX 163.59 Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery DX 163.59 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery DX 163.59 Cerebral infarction due to unspecif	le	Description	Type	Category
163.521       Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery       DX         163.522       Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery       DX         163.523       Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral artery       DX         163.529       Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery       DX         163.531       Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery       DX         163.532       Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral artery       DX         163.533       Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral artery       DX         163.539       Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery       DX         163.541       Cerebral infarction due to unspecified occlusion or stenosis of light cerebellar artery       DX         163.542       Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery       DX         163.543       Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries       DX         163.540       Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries <t< td=""><td>.519</td><td>Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral</td><td>DX</td><td>ICD-10-CM</td></t<>	.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral	DX	ICD-10-CM
163.522   Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery   DX   163.523   Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries   Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery   DX   163.531   Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery   DX   163.532   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX   163.533   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX   163.534   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral artery   DX   163.541   Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery   DX   163.542   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery   DX   163.543   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery   DX   163.549   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery   DX   163.549   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   163.59   Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery   DX   163.60   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX   163.80   Other cerebral infarction, unspecified occlusion or stenosis of other cerebral artery   DX   163.80   Other cerebral infarction, unspecified occlusion or stenosis of other cerebral artery   DX   163.80   Other cerebral infarction   DX   163.80   Other cerebral infarction   DX   163.80   Other cerebral infarction   DX   163.80   Other cerebral ischemia   DX   163.80   Other cerebral ischemia   DX   163.80   Other cerebral ischemia   DX   163.80   Other cerebral ischemic attacks and related syndromes   DX   1		artery		
163.523   Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	DX	ICD-10-CM
arteries    63.529   Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery   63.531   Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery   DX   I63.532   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX   I63.533   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX   I63.533   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries   DX   arteries   Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery   DX   I63.541   Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery   DX   I63.542   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar arteries   DX   I63.543   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries   DX   I63.549   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries   DX   I63.59   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.60   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.61   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.62   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.63   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.64   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.65   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.66   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   I63.66   Cerebral infarction due t	.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	DX	ICD-10-CM
Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery   DX   163.531   Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery   DX   163.532   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX   163.533   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries   DX   163.539   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral artery   DX   163.541   Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery   DX   163.542   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery   DX   163.543   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery   DX   163.543   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar artery   DX   163.549   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   163.59   Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery   DX   163.60   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX   163.80   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX   167.89   Other cerebrovascular disease   DX   167.89   Other cerebrovascular disease   DX   167.89   Cerebral infarction, unspecified   DX   167.89   Cerebral infarction   Cerebral infarction   DX   167.89   Cerebral infarction   Cerebra		·	DX	ICD-10-CM
artery    63.531   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX     163.532   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX     163.533   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral   DX     163.539   Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral   DX     163.539   Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral   DX     163.541   Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery   DX     163.542   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery   DX     163.543   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries   DX     163.549   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX     163.59   Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery   DX     163.60   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX     163.79   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX     163.80   Other cerebrovascular disease   DX     163.91   Cerebral infarction, unspecified   DX     163.82   Transient cerebral ischemia   DX     163.59   DX     163.59   Sasilar artery syndrome   DX     163.59   Sasilar artery syndrome   DX     163.50   DX     163.50   Cerebral infarction of ue to cerebral ischemia   DX     163.50   Cerebral infarction of ue to cerebral ischemia   DX     163.50   Cerebral infarction of ue to cerebral ischemia   DX     163.50   Cerebral infarction of ue to cerebral ischemia   DX     163.50   Cerebral infarction of ue to cerebral ischemia   DX     163.50   Cerebral infarction of ue to cerebral ischemia   DX     163.50   Cerebral infarction of ue to cerebral ischemic attack, and related syndrome   DX     163.50   Ce			<b>5</b> 1/	100 40 614
163.531   Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery   DX   163.532   Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery   DX   163.533   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries   DX   163.539   Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery   DX   163.541   Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery   DX   163.542   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery   DX   163.543   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar arteries   DX   163.549   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   163.59   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   163.6   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   163.6   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX   163.8   Other cerebral infarction   DX   163.9   Cerebral infarction, unspecified   DX   163.9   Cerebral infarction, unspecified   DX   163.9   Cerebral infarction, unspecified   DX   163.9   Cerebral infarction   DX   163.8   Other cerebral ischemia   DX   163.8   Other cerebral ischemia   DX   164.5   Other cerebral ischemia   DX   164.5   Other cerebral ischemic attack   DX   164.5   Other cerebral ischemic attack   DX   164.5   Other cerebral ischemic attack   DX   164.5   Other transient cerebral ischemic attacks and related syndrome   DX   164.6   Other transient cerebral ischemic attacks and related syndrome   DX   164.6   Other cerebrovascular vasoconstriction s			DX	ICD-10-CM
163.533   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries   DX arteries		•	DX	ICD-10-CM
163.533   Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries   DX arteries	.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	DX	ICD-10-CM
Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery   Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery   DX   Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery   DX   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries   DX   Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries   DX   Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery   DX   Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery   DX   Cerebral infarction due to cerebral venous thrombosis, nonpyogenic   DX   Cerebral infarction, unspecified   DX   Cerebral ischemia   DX   Cerebral artery syndrome   DX   Cerebral ischemia   DX   Cerebral ischemia   DX   Cerebral ischemia   Cerebral ischemia   DX   Cerebral ischemia   Cerebral ischemia   DX   Cerebral ischemia			DX	ICD-10-CM
163.541       Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery       DX         163.542       Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery       DX         163.543       Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries       DX         163.549       Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery       DX         163.59       Cerebral infarction due to cerebral venous thrombosis, nonpyogenic       DX         163.8       Other cerebral infarction       DX         163.9       Cerebral infarction, unspecified       DX         167.89       Other cerebral ischemia       DX         435.0       Basilar artery syndrome       DX         435.1       Vertebral artery syndrome       DX         435.2       Subclavian steal syndrome       DX         435.3       Vertebrobasilar artery syndrome       DX         435.3       Vertebrobasilar artery syndrome       DX         435.9       Unspecified transient cerebral ischemia       DX         435.9       Unspecified transient cerebral ischemia       DX         435.1       Carotid artery syndrome       DX         645.0       Vertebro-basilar artery syndrome       DX			DX	ICD-10-CM
163.542       Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery       DX         163.543       Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries       DX         163.549       Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery       DX         163.59       Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery       DX         163.6       Cerebral infarction due to cerebral venous thrombosis, nonpyogenic       DX         163.8       Other cerebral infarction       DX         163.9       Cerebral infarction, unspecified       DX         167.89       Other cerebral ischemia       DX         435.0       Basilar artery syndrome       DX         435.1       Vertebral artery syndrome       DX         435.2       Subclavian steal syndrome       DX         435.3       Vertebrobasilar artery syndrome       DX         435.9       Unspecified transient cerebral ischemia       DX         435.9       Unspecified transient cerebral ischemia       DX         435.9       Unspecified transient cerebral ischemia       DX         645.0       Vertebro-basilar artery syndrome       DX         645.1       Carotid artery syndrome (hemispheric)		artery		
163.543Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteriesDX163.549Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar arteryDX163.59Cerebral infarction due to unspecified occlusion or stenosis of other cerebral arteryDX163.6Cerebral infarction due to cerebral venous thrombosis, nonpyogenicDX163.8Other cerebral infarction, unspecifiedDX163.9Cerebral infarction, unspecifiedDX167.89Other cerebrovascular diseaseDXTransient ischemic attack435Transient cerebral ischemiaDX435.0Basilar artery syndromeDX435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.9Unspecified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDX435.0Vertebro-basilar artery syndromeDX645.1Carotid artery syndrome (hemispheric)DX645.2Multiple and bilateral precerebral artery syndromesDX645.8Other transient cerebral ischemic attacks and related syndromesDX646.0Middle cerebral artery syndromeDX646.1Anterior cerebral artery syndromeDX646.2Posterior cerebral artery syndromeDX167.841Reversible cerebrovascular vasoconstriction syndromeDX	.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	DX	ICD-10-CM
163.549       Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery       DX         163.59       Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery       DX         163.6       Cerebral infarction due to cerebral venous thrombosis, nonpyogenic       DX         163.8       Other cerebral infarction       DX         163.9       Cerebral infarction, unspecified       DX         167.89       Other cerebrovascular disease       DX         Transient ischemic attack         435.       Transient cerebral ischemia       DX         435.0       Basilar artery syndrome       DX         435.1       Vertebral artery syndrome       DX         435.2       Subclavian steal syndrome       DX         435.3       Vertebrobasilar artery syndrome       DX         435.9       Unspecified transient cerebral ischemia       DX         435.9       Unspecified transient cerebral ischemia       DX         645.0       Vertebro-basilar artery syndrome       DX         645.1       Carotid artery syndrome (hemispheric)       DX         645.2       Multiple and bilateral precerebral artery syndromes       DX         645.9       Transient cerebral ischemic attack, unspecified       D	.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	DX	ICD-10-CM
163.59Cerebral infarction due to unspecified occlusion or stenosis of other cerebral arteryDX163.6Cerebral infarction due to cerebral venous thrombosis, nonpyogenicDX163.8Other cerebral infarctionDX163.9Cerebral infarction, unspecifiedDX167.89Other cerebrovascular diseaseDXTransient ischemic attack435Transient cerebral ischemiaDX435.0Basilar artery syndromeDX435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDX435.0Vertebro-basilar artery syndromeDX645.0Vertebro-basilar artery syndromeDX645.1Carotid artery syndrome (hemispheric)DX645.2Multiple and bilateral precerebral artery syndromesDX645.8Other transient cerebral ischemic attacks and related syndromesDX645.9Transient cerebral artery syndromeDX646.0Middle cerebral artery syndromeDX646.1Anterior cerebral artery syndromeDX646.2Posterior cerebral artery syndromeDX167.841Reversible cerebrovascular vasoconstriction syndromeDX167.848Other cerebrascular vasoconstriction syndromeDX	.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	DX	ICD-10-CM
163.6Cerebral infarction due to cerebral venous thrombosis, nonpyogenicDX163.8Other cerebral infarctionDX163.9Cerebral infarction, unspecifiedDX167.89Other cerebrovascular diseaseDXTransient ischemic attack435Transient cerebral ischemiaDX435.0Basilar artery syndromeDX435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebroabsilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDX645.0Vertebro-basilar artery syndromeDX645.1Carotid artery syndrome (hemispheric)DX645.2Multiple and bilateral precerebral artery syndromesDX645.8Other transient cerebral ischemic attacks and related syndromesDX645.9Transient cerebral ischemic attack, unspecifiedDX646.0Middle cerebral artery syndromeDX646.1Anterior cerebral artery syndromeDX646.2Posterior cerebral artery syndromeDX167.841Reversible cerebrovascular vasoconstriction syndromeDX167.848Other cerebrovascular vasoconstriction syndromeDX	.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	DX	ICD-10-CM
163.8Other cerebral infarctionDX163.9Cerebral infarction, unspecifiedDX167.89Other cerebrovascular diseaseDXTransient ischemic attack435Transient cerebral ischemiaDX435.0Basilar artery syndromeDX435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDX645.0Vertebro-basilar artery syndromeDX645.1Carotid artery syndrome (hemispheric)DX645.2Multiple and bilateral precerebral artery syndromesDX645.8Other transient cerebral ischemic attacks and related syndromesDX645.9Transient cerebral ischemic attack, unspecifiedDX646.0Middle cerebral artery syndromeDX646.1Anterior cerebral artery syndromeDX646.2Posterior cerebral artery syndromeDX167.841Reversible cerebrovascular vasoconstriction syndromeDX167.848Other cerebrovascular vasoconstriction syndromeDX	.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	DX	ICD-10-CM
163.9Cerebral infarction, unspecifiedDX167.89Other cerebrovascular diseaseDXTransient ischemic attack435Transient cerebral ischemiaDX435.0Basilar artery syndromeDX435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDXG45.0Vertebro-basilar artery syndromeDXG45.1Carotid artery syndrome (hemispheric)DXG45.2Multiple and bilateral precerebral artery syndromesDXG45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral artery syndromeDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasoconstriction syndromeDX	.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	DX	ICD-10-CM
Transient ischemic attack  Transient cerebral ischemia  A35. Transient cerebral ischemia  A35.0 Basilar artery syndrome  DX  A35.1 Vertebral artery syndrome  DX  A35.2 Subclavian steal syndrome  DX  A35.3 Vertebrobasilar artery syndrome  DX  A35.8 Other specified transient cerebral ischemias  DX  A35.9 Unspecified transient cerebral ischemia  DX  G45.0 Vertebro-basilar artery syndrome  DX  G45.1 Carotid artery syndrome (hemispheric)  DX  G45.2 Multiple and bilateral precerebral artery syndromes  DX  G45.8 Other transient cerebral ischemic attacks and related syndromes  DX  G45.9 Transient cerebral ischemic attack, unspecified  DX  G46.0 Middle cerebral artery syndrome  DX  G46.1 Anterior cerebral artery syndrome  DX  G46.2 Posterior cerebral artery syndrome  DX  I67.841 Reversible cerebrovascular vasospasm and vasoconstriction  DX  I67.848 Other cerebrovascular vasospasm and vasoconstriction	.8	Other cerebral infarction	DX	ICD-10-CM
Transient ischemic attack  435 Transient cerebral ischemia DX  435.0 Basilar artery syndrome DX  435.1 Vertebral artery syndrome DX  435.2 Subclavian steal syndrome DX  435.3 Vertebrobasilar artery syndrome DX  435.8 Other specified transient cerebral ischemias DX  435.9 Unspecified transient cerebral ischemia DX  645.0 Vertebro-basilar artery syndrome DX  645.1 Carotid artery syndrome (hemispheric) DX  645.2 Multiple and bilateral precerebral artery syndromes DX  645.8 Other transient cerebral ischemic attacks and related syndromes DX  645.9 Transient cerebral ischemic attack, unspecified DX  646.0 Middle cerebral artery syndrome DX  646.1 Anterior cerebral artery syndrome DX  646.2 Posterior cerebral artery syndrome DX  167.841 Reversible cerebrovascular vasosonstriction syndrome DX  167.848 Other cerebrovascular vasospasm and vasoconstriction	.9	Cerebral infarction, unspecified	DX	ICD-10-CM
Transient cerebral ischemia  A35.0  Basilar artery syndrome  A35.1  Vertebral artery syndrome  DX  A35.2  Subclavian steal syndrome  DX  A35.3  Vertebrobasilar artery syndrome  DX  A35.8  Other specified transient cerebral ischemias  DX  A35.9  Unspecified transient cerebral ischemia  DX  A35.0  Vertebro-basilar artery syndrome  DX  A35.1  Carotid artery syndrome  DX  A05.1  Carotid artery syndrome (hemispheric)  DX  A05.2  Multiple and bilateral precerebral artery syndromes  DX  A05.8  Other transient cerebral ischemic attacks and related syndromes  DX  A05.9  Transient cerebral ischemic attack, unspecified  DX  A06.0  Middle cerebral artery syndrome  DX  Anterior cerebra	.89	Other cerebrovascular disease	DX	ICD-10-CM
435.0Basilar artery syndromeDX435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDXG45.0Vertebro-basilar artery syndromeDXG45.1Carotid artery syndrome (hemispheric)DXG45.2Multiple and bilateral precerebral artery syndromesDXG45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral artery syndromeDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX		Transient ischemic attack		
435.1Vertebral artery syndromeDX435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDXG45.0Vertebro-basilar artery syndromeDXG45.1Carotid artery syndrome (hemispheric)DXG45.2Multiple and bilateral precerebral artery syndromesDXG45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral ischemic attack, unspecifiedDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX				ICD-09-CM
435.2Subclavian steal syndromeDX435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDXG45.0Vertebro-basilar artery syndromeDXG45.1Carotid artery syndrome (hemispheric)DXG45.2Multiple and bilateral precerebral artery syndromesDXG45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral ischemic attack, unspecifiedDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.0	Basilar artery syndrome	DX	ICD-09-CM
435.3Vertebrobasilar artery syndromeDX435.8Other specified transient cerebral ischemiasDX435.9Unspecified transient cerebral ischemiaDXG45.0Vertebro-basilar artery syndromeDXG45.1Carotid artery syndrome (hemispheric)DXG45.2Multiple and bilateral precerebral artery syndromesDXG45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral ischemic attack, unspecifiedDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX		Vertebral artery syndrome	DX	ICD-09-CM
435.8 Other specified transient cerebral ischemias  435.9 Unspecified transient cerebral ischemia  645.0 Vertebro-basilar artery syndrome  645.1 Carotid artery syndrome (hemispheric)  645.2 Multiple and bilateral precerebral artery syndromes  645.8 Other transient cerebral ischemic attacks and related syndromes  645.9 Transient cerebral ischemic attack, unspecified  646.0 Middle cerebral artery syndrome  646.1 Anterior cerebral artery syndrome  646.2 Posterior cerebral artery syndrome  646.3 Reversible cerebrovascular vasoconstriction syndrome  657.841 Reversible cerebrovascular vasospasm and vasoconstriction  658  659  650  650  650  650  650  650  650		•		ICD-09-CM
Unspecified transient cerebral ischemia  G45.0 Vertebro-basilar artery syndrome  G45.1 Carotid artery syndrome (hemispheric)  G45.2 Multiple and bilateral precerebral artery syndromes  G45.8 Other transient cerebral ischemic attacks and related syndromes  G45.9 Transient cerebral ischemic attack, unspecified  DX  G46.0 Middle cerebral artery syndrome  G46.1 Anterior cerebral artery syndrome  G46.2 Posterior cerebral artery syndrome  DX  G78.841 Reversible cerebrovascular vasoconstriction syndrome  DX  Other cerebrovascular vasospasm and vasoconstriction  DX  DX  DX  DX  DX  DX  DX  DX  DX  D		Vertebrobasilar artery syndrome	DX	ICD-09-CM
G45.0 Vertebro-basilar artery syndrome G45.1 Carotid artery syndrome (hemispheric) G45.2 Multiple and bilateral precerebral artery syndromes G45.8 Other transient cerebral ischemic attacks and related syndromes G45.9 Transient cerebral ischemic attack, unspecified DX G46.0 Middle cerebral artery syndrome DX G46.1 Anterior cerebral artery syndrome DX G46.2 Posterior cerebral artery syndrome DX I67.841 Reversible cerebrovascular vasoconstriction syndrome DX I67.848 Other cerebrovascular vasospasm and vasoconstriction DX IA I		•	DX	ICD-09-CM
G45.1 Carotid artery syndrome (hemispheric) G45.2 Multiple and bilateral precerebral artery syndromes DX G45.8 Other transient cerebral ischemic attacks and related syndromes DX G45.9 Transient cerebral ischemic attack, unspecified DX G46.0 Middle cerebral artery syndrome DX G46.1 Anterior cerebral artery syndrome DX G46.2 Posterior cerebral artery syndrome DX I67.841 Reversible cerebrovascular vasoconstriction syndrome DX I67.848 Other cerebrovascular vasospasm and vasoconstriction DX	5.9	Unspecified transient cerebral ischemia	DX	ICD-09-CM
G45.2Multiple and bilateral precerebral artery syndromesDXG45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral ischemic attack, unspecifiedDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.0	Vertebro-basilar artery syndrome	DX	ICD-10-CM
G45.8Other transient cerebral ischemic attacks and related syndromesDXG45.9Transient cerebral ischemic attack, unspecifiedDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.1	Carotid artery syndrome (hemispheric)	DX	ICD-10-CM
G45.9Transient cerebral ischemic attack, unspecifiedDXG46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.2	Multiple and bilateral precerebral artery syndromes	DX	ICD-10-CM
G46.0Middle cerebral artery syndromeDXG46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.8	Other transient cerebral ischemic attacks and related syndromes	DX	ICD-10-CM
G46.1Anterior cerebral artery syndromeDXG46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.9	Transient cerebral ischemic attack, unspecified	DX	ICD-10-CM
G46.2Posterior cerebral artery syndromeDXI67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.0	Middle cerebral artery syndrome	DX	ICD-10-CM
I67.841Reversible cerebrovascular vasoconstriction syndromeDXI67.848Other cerebrovascular vasospasm and vasoconstrictionDX	5.1	Anterior cerebral artery syndrome	DX	ICD-10-CM
167.848 Other cerebrovascular vasospasm and vasoconstriction DX	5.2	Posterior cerebral artery syndrome	DX	ICD-10-CM
	.841	Reversible cerebrovascular vasoconstriction syndrome	DX	ICD-10-CM
Other medical conditions (falls fractures syncone walker use)	.848	Other cerebrovascular vasospasm and vasoconstriction	DX	ICD-10-CM
Other medical conditions (rais, mactares, syncope, waiter use)		Other medical conditions (falls, fractures, syncope, walker use)		
E880 Accidental fall on or from stairs or steps DX	80	Accidental fall on or from stairs or steps	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 600 of 702



		Code	Code
Code	Description	Type	Category
E8800	Accidental fall on or from escalator	DX	ICD-09-CM
E8801	Accidental fall on or from sidewalk curb	DX	ICD-09-CM
E8809	Accidental fall on or from other stairs or steps	DX	ICD-09-CM
E881	Accidental fall on or from ladders or scaffolding	DX	ICD-09-CM
E8810	Accidental fall from ladder	DX	ICD-09-CM
E8811	Accidental fall from scaffolding	DX	ICD-09-CM
E882	Accidental fall from or out of building or other structure	DX	ICD-09-CM
E883	Accidental fall into hole or other opening in surface	DX	ICD-09-CM
E8830	Accident from diving or jumping into water (swimming pool)	DX	ICD-09-CM
E8831	Accidental fall into well	DX	ICD-09-CM
E8832	Accidental fall into storm drain or manhole	DX	ICD-09-CM
E8839	Accidental fall into other hole or other opening in surface	DX	ICD-09-CM
E884	Other accidental fall from one level to another	DX	ICD-09-CM
E8840	Accidental fall from playground equipment	DX	ICD-09-CM
E8841	Accidental fall from cliff	DX	ICD-09-CM
E8842	Accidental fall from chair	DX	ICD-09-CM
E8843	Accidental fall from wheelchair	DX	ICD-09-CM
E8844	Accidental fall from bed	DX	ICD-09-CM
E8845	Accidental fall from other furniture	DX	ICD-09-CM
E8846	Accidental fall from commode	DX	ICD-09-CM
E8849	Other accidental fall from one level to another	DX	ICD-09-CM
E885	Accidental fall on same level from slipping, tripping, or stumbling	DX	ICD-09-CM
E8850	Fall on same level from (nonmotorized) scooter	DX	ICD-09-CM
E8851	Fall from roller skates	DX	ICD-09-CM
E8852	Fall from skateboard	DX	ICD-09-CM
E8853	Fall from skis	DX	ICD-09-CM
E8854	Fall from snowboard	DX	ICD-09-CM
E8859	Fall from other slipping, tripping, or stumbling	DX	ICD-09-CM
E886	Accidental fall on same level from collision, pushing, or shoving, by or with other person	DX	ICD-09-CM
E8860	Accidental fall on same level from collision, pushing, or shoving, by or with other person in sports	DX	ICD-09-CM
E8869	Other and unspecified accidental falls on same level from collision, pushing, or shoving, by or with other person	DX	ICD-09-CM
E887	Fracture in accidental fall, cause unspecified	DX	ICD-09-CM
E888	Other and unspecified accidental fall	DX	ICD-09-CM
E8880	Fall resulting in striking against sharp object	DX	ICD-09-CM
E8881	Fall resulting in striking against other object	DX	ICD-09-CM
E8888	Other fall	DX	ICD-09-CM
E8889	Unspecified fall	DX	ICD-09-CM
E9176	Strike against or struck accidentally by crowd, by collective fear or panic with subsequent fall	DX	ICD-09-CM
E9177	Strike against or struck accidentally by furniture with subsequent fall	DX	ICD-09-CM
E9178	Strike against or struck accidentally by other stationary object with subsequent fall	DX	ICD-09-CM
E9179	Other accident caused by striking against or being struck accidentally by objects or persons	DX	ICD-09-CM
	·		

cder\_mpl2p\_wp047 Page 601 of 702



Daseille C	haracteristics in this Request	Code	Code
Code	Description	Туре	Category
E9293	Late effects of accidental fall	DX	ICD-09-CM
807	Closed fracture of rib(s)	DX	ICD-09-CM
807	Closed fracture of rib(s), unspecified	DX	ICD-09-CM
807.01	Closed fracture of one rib	DX	ICD-09-CM
807.02	Closed fracture of two ribs	DX	ICD-09-CM
807.03	Closed fracture of three ribs	DX	ICD-09-CM
807.04	Closed fracture of four ribs	DX	ICD-09-CM
807.05	Closed fracture of five ribs	DX	ICD-09-CM
807.06	Closed fracture of six ribs	DX	ICD-09-CM
807.07	Closed fracture of seven ribs	DX	ICD-09-CM
807.08	Closed fracture of eight or more ribs	DX	ICD-09-CM
807.09	Closed fracture of multiple ribs, unspecified	DX	ICD-09-CM
807.1	Open fracture of rib(s)	DX	ICD-09-CM
807.1	Open fracture of rib(s), unspecified	DX	ICD-09-CM
807.11	Open fracture of one rib	DX	ICD-09-CM
807.12	Open fracture of two ribs	DX	ICD-09-CM
807.13	Open fracture of three ribs	DX	ICD-09-CM
807.14	Open fracture of four ribs	DX	ICD-09-CM
807.15	Open fracture of five ribs	DX	ICD-09-CM
807.16	Open fracture of six ribs	DX	ICD-09-CM
807.17	Open fracture of seven ribs	DX	ICD-09-CM
807.18	Open fracture of eight or more ribs	DX	ICD-09-CM
807.19	Open fracture of multiple ribs, unspecified	DX	ICD-09-CM
810	Fracture of clavicle	DX	ICD-09-CM
810	Closed fracture of clavicle	DX	ICD-09-CM
810	Unspecified part of closed fracture of clavicle	DX	ICD-09-CM
810.01	Closed fracture of sternal end of clavicle	DX	ICD-09-CM
810.02	Closed fracture of shaft of clavicle	DX	ICD-09-CM
810.03	Closed fracture of acromial end of clavicle	DX	ICD-09-CM
810.1	Open fracture of clavicle	DX	ICD-09-CM
810.1	Unspecified part of open fracture of clavicle	DX	ICD-09-CM
810.11	Open fracture of sternal end of clavicle	DX	ICD-09-CM
810.12	Open fracture of shaft of clavicle	DX	ICD-09-CM
810.13	Open fracture of acromial end of clavicle	DX	ICD-09-CM
813	Fracture of radius and ulna	DX	ICD-09-CM
813	Closed fracture of upper end of radius and ulna	DX	ICD-09-CM
813	Unspecified fracture of radius and ulna, upper end of forearm, closed	DX	ICD-09-CM
813.01	Closed fracture of olecranon process of ulna	DX	ICD-09-CM
813.02	Closed fracture of coronoid process of ulna	DX	ICD-09-CM
813.03	Closed Monteggia's fracture	DX	ICD-09-CM
813.04	Other and unspecified closed fractures of proximal end of ulna (alone)	DX	ICD-09-CM
813.05	Closed fracture of head of radius	DX	ICD-09-CM
813.06	Closed fracture of neck of radius	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 602 of 702



Dascille C	haracteristics in this Request	Code	Code
Code	Description	Туре	Category
813.07	Other and unspecified closed fractures of proximal end of radius (alone)	DX	ICD-09-CM
813.08	Closed fracture of radius with ulna, upper end (any part)	DX	ICD-09-CM
813.1	Open fracture of upper end of radius and ulna	DX	ICD-09-CM
813.1	Unspecified open fracture of upper end of forearm	DX	ICD-09-CM
813.11	Open fracture of olecranon process of ulna	DX	ICD-09-CM
813.12	Open fracture of coronoid process of ulna	DX	ICD-09-CM
813.13	Open Monteggia's fracture	DX	ICD-09-CM
813.14	Other and unspecified open fractures of proximal end of ulna (alone)	DX	ICD-09-CM
813.15	Open fracture of head of radius	DX	ICD-09-CM
813.16	Open fracture of neck of radius	DX	ICD-09-CM
813.17	Other and unspecified open fractures of proximal end of radius (alone)	DX	ICD-09-CM
813.18	Open fracture of radius with ulna, upper end (any part)	DX	ICD-09-CM
813.2	Closed fracture of shaft of radius and ulna	DX	ICD-09-CM
813.2	Unspecified closed fracture of shaft of radius or ulna	DX	ICD-09-CM
813.21	Closed fracture of shaft of radius (alone)	DX	ICD-09-CM
813.22	Closed fracture of shaft of ulna (alone)	DX	ICD-09-CM
813.23	Closed fracture of shaft of radius with ulna	DX	ICD-09-CM
813.3	Open fracture of shaft of radius and ulna	DX	ICD-09-CM
813.3	Unspecified open fracture of shaft of radius or ulna	DX	ICD-09-CM
813.31	Open fracture of shaft of radius (alone)	DX	ICD-09-CM
813.32	Open fracture of shaft of ulna (alone)	DX	ICD-09-CM
813.33	Open fracture of shaft of radius with ulna	DX	ICD-09-CM
813.4	Closed fracture of lower end of radius and ulna	DX	ICD-09-CM
813.4	Unspecified closed fracture of lower end of forearm	DX	ICD-09-CM
813.41	Closed Colles' fracture	DX	ICD-09-CM
813.42	Other closed fractures of distal end of radius (alone)	DX	ICD-09-CM
813.43	Closed fracture of distal end of ulna (alone)	DX	ICD-09-CM
813.44	Closed fracture of lower end of radius with ulna	DX	ICD-09-CM
813.45	Torus fracture of radius (alone)	DX	ICD-09-CM
813.46	Torus fracture of ulna (alone)	DX	ICD-09-CM
813.47	Torus fracture of radius and ulna	DX	ICD-09-CM
813.5	Open fracture of lower end of radius and ulna	DX	ICD-09-CM
813.5	Unspecified open fracture of lower end of forearm	DX	ICD-09-CM
813.51	Open Colles' fracture	DX	ICD-09-CM
813.52	Other open fractures of distal end of radius (alone)	DX	ICD-09-CM
813.53	Open fracture of distal end of ulna (alone)	DX	ICD-09-CM
813.54	Open fracture of lower end of radius with ulna	DX	ICD-09-CM
813.8	Closed fracture of unspecified part of radius with ulna	DX	ICD-09-CM
813.8	Closed fracture of unspecified part of forearm	DX	ICD-09-CM
813.81	Closed fracture of unspecified part of radius (alone)	DX	ICD-09-CM
813.82	Closed fracture of unspecified part of ulna (alone)	DX	ICD-09-CM
813.83	Closed fracture of unspecified part of radius with ulna	DX	ICD-09-CM
813.9	Open fracture of unspecified part of radius with ulna	DX	ICD-09-CM
013.3	Open fracture of unspecified part of radius with unia	DX	ICD-03-CIV

cder\_mpl2p\_wp047 Page 603 of 702



Baseline Characteristics in this Request				
Cade	Description	Code	Code	
Code	Description	Туре	Category	
813.9	Open fracture of unspecified part of forearm	DX	ICD-09-CM	
813.91	Open fracture of unspecified part of radius (alone)	DX	ICD-09-CM	
813.92	Open fracture of unspecified part of ulna (alone)	DX	ICD-09-CM	
813.93	Open fracture of unspecified part of radius with ulna	DX	ICD-09-CM	
820	Fracture of neck of femur	DX	ICD-09-CM	
820	Closed transcervical fracture	DX	ICD-09-CM	
820	Closed fracture of unspecified intracapsular section of neck of femur	DX	ICD-09-CM	
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur	DX	ICD-09-CM	
820.02	Closed fracture of midcervical section of femur	DX	ICD-09-CM	
820.03	Closed fracture of base of neck of femur	DX	ICD-09-CM	
820.09	Other closed transcervical fracture of femur	DX	ICD-09-CM	
820.1	Open transcervical fracture	DX	ICD-09-CM	
820.1	Open fracture of unspecified intracapsular section of neck of femur	DX	ICD-09-CM	
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	DX	ICD-09-CM	
820.12	Open fracture of midcervical section of femur	DX	ICD-09-CM	
820.13	Open fracture of base of neck of femur	DX	ICD-09-CM	
820.19	Other open transcervical fracture of femur	DX	ICD-09-CM	
820.2	Closed pertrochanteric fracture of femur	DX	ICD-09-CM	
820.2	Closed fracture of unspecified trochanteric section of femur	DX	ICD-09-CM	
820.21	Closed fracture of intertrochanteric section of femur	DX	ICD-09-CM	
820.22	Closed fracture of subtrochanteric section of femur	DX	ICD-09-CM	
820.3	Open pertrochanteric fracture of femur	DX	ICD-09-CM	
820.3	Open fracture of unspecified trochanteric section of femur	DX	ICD-09-CM	
820.31	Open fracture of intertrochanteric section of femur	DX	ICD-09-CM	
820.32	Open fracture of subtrochanteric section of femur	DX	ICD-09-CM	
820.8	Closed fracture of unspecified part of neck of femur	DX	ICD-09-CM	
820.9	Open fracture of unspecified part of neck of femur	DX	ICD-09-CM	
78.11	Application of external fixator device, scapula, clavicle, and thorax [ribs and sternum]	PX	ICD-09-CM	
78.13	Application of external fixator device, radius and ulna	PX	ICD-09-CM	
78.15	Application of external fixator device, femur	PX	ICD-09-CM	
78.41	Other repair or plastic operations on scapula, clavicle, and thorax (ribs and sternum)	PX	ICD-09-CM	
78.43	Other repair or plastic operations on radius and ulna	PX	ICD-09-CM	
78.45	Other repair or plastic operations on femur	PX	ICD-09-CM	
78.51	Internal fixation of scapula, clavicle, and thorax (ribs and sternum) without fracture reduction	PX	ICD-09-CM	
78.53	Internal fixation of radius and ulna without fracture reduction	PX	ICD-09-CM	
78.55	Internal fixation of femur without fracture reduction	PX	ICD-09-CM	
78.61	Removal of implanted device from scapula, clavicle, and thorax (ribs and sternum)	PX	ICD-09-CM	
78.63	Removal of implanted device from radius and ulna	PX	ICD-09-CM	
78.65	Removal of implanted device from femur	PX	ICD-09-CM	
79.02	Closed reduction of fracture of radius and ulna without internal fixation	PX	ICD-09-CM	
79.05	Closed reduction of fracture of femur without internal fixation	PX	ICD-09-CM	
79.12	Closed reduction of fracture of radius and ulna with internal fixation	PX	ICD-09-CM	
79.15	Closed reduction of fracture of femur with internal fixation	PX	ICD-09-CM	

cder\_mpl2p\_wp047 Page 604 of 702



			Code
Code	Description	Туре	Category
79.22	Open reduction of fracture of radius and ulna without internal fixation	PX	ICD-09-CM
79.25	Open reduction of fracture of femur without internal fixation	PX	ICD-09-CM
79.32	Open reduction of fracture of radius and ulna with internal fixation	PX	ICD-09-CM
79.35	Open reduction of fracture of femur with internal fixation	PX	ICD-09-CM
79.62	Debridement of open fracture of radius and ulna	PX	ICD-09-CM
79.65	Debridement of open fracture of femur	PX	ICD-09-CM
21800	Closed treatment of broken rib	PX	CPT-4
21805	Open treatment of broken rib	PX	CPT-4
21810	Treatment of broken rib	PX	CPT-4
21812	Open treatment of broken ribs with insertion of hardware	PX	CPT-4
21813	Open treatment of broken ribs with insertion of hardware	PX	CPT-4
23485	Incision to repair collar bone for nonunion of fracture with bone graft	PX	CPT-4
23500	Closed treatment of collar bone fracture	PX	CPT-4
23505	Closed treatment of collar bone broken with manipulation	PX	CPT-4
23515	Open treatment of collar bone broken	PX	CPT-4
24586	Open treatment of broken and/or dislocated upper or lower arm bones at elbow	PX	CPT-4
24587	Open treatment of broken and/or dislocated upper or lower arm bones at elbow with	PX	CPT-4
24620	Closed treatment of broken and dislocated forearm bones at elbow with manipulation	PX	CPT-4
24635	Open treatment of broken and dislocated forearm bones at elbow	PX	CPT-4
24650	Closed treatment of broken forearm bone at elbow	PX	CPT-4
24655	Closed treatment of broken forearm bone at elbow with manipulation	PX	CPT-4
24665	Open treatment of broken forearm bone at elbow	PX	CPT-4
24666	Open treatment of broken forearm bone at elbow with prosthetic replacement	PX	CPT-4
24670	Closed treatment of broken forearm bone at elbow	PX	CPT-4
24675	Closed treatment of broken forearm bone at elbow with manipulation	PX	CPT-4
24685	Open treatment of broken forearm bone at elbow	PX	CPT-4
25500	Closed treatment of broken forearm bone	PX	CPT-4
25505	Closed treatment of broken forearm bone with manipulation	PX	CPT-4
25515	Open treatment of broken forearm bone	PX	CPT-4
25520	Closed treatment of broken forearm and dislocated wrist bones	PX	CPT-4
25525	Open treatment of broken forearm bone and closed treatment of joint dislocation	PX	CPT-4
25526	Open treatment of broken forearm bone	PX	CPT-4
25530	Closed treatment of broken forearm bone	PX	CPT-4
25535	Closed treatment of broken forearm bone with manipulation	PX	CPT-4
25545	Open treatment of broken forearm bone	PX	CPT-4
25560	Closed treatment of broken forearm bones	PX	CPT-4
25565	Closed treatment of broken forearm bones with manipulation	PX	CPT-4
25574	Open treatment of broken forearm bones	PX	CPT-4
25575	Open treatment of broken forearm bones	PX	CPT-4
25600	Closed treatment of broken forearm bones	PX	CPT-4
25605	Closed treatment of broken or growth plate separate of forearm bone at wrist with	PX	CPT-4
	manipulation		

cder\_mpl2p\_wp047 Page 605 of 702



		Code	Code
Code	Description	Туре	Category
25606	Insertion of hardware to lower forearm bone broken or growth plate separation, accessed through the skin	PX	CPT-4
25607	Open treatment of broken or lower forearm bone or growth plate separation with insertion of hardware	PX	CPT-4
25608	Open treatment of broken of lower forearm or growth plate separation with insertion of hardware of 2 fragments	PX	CPT-4
25609	Open treatment of broken of lower forearm or growth plate separation with insertion of hardware of 3 or more fragments	PX	CPT-4
25611	Percutaneous skeletal fixation of distal radial fracture (eg, colles or smith type) or epiphyseal separation, with or without fracture of ulnar styloid, requiring manipulation, with or without external fixation	PX	CPT-4
25620	Open treatment of distal radial fracture (eg, colles or smith type) or epiphyseal separation, with or without fracture of ulnar styloid, with or without internal or external fixation	PX	CPT-4
25650	Closed treatment of broken forearm bone at wrist bone	PX	CPT-4
25651	Insertion of hardware broken bone of forearm at wrist, accessed through the skin	PX	CPT-4
25652	Open treatment of broken wrist	PX	CPT-4
27230	Closed treatment of upper thigh bone fracture	PX	CPT-4
27232	Closed treatment of thigh bone fracture with manipulation	PX	CPT-4
27235	Insertion of hardware to broken thigh bone, accessed through the skin	PX	CPT-4
27236	Open treatment of broken thigh bone with insertion of hardware or prosthetic replacement	PX	CPT-4
27238	Closed treatment of fracture below neck of upper thigh bone	PX	CPT-4
27240	Closed treatment of broken thigh bone with manipulation	PX	CPT-4
27244	Surgical treatment of broken thigh bone	PX	CPT-4
27245	Surgical treatment of broken thigh bone	PX	CPT-4
27246	Closed treatment of broken thigh bone	PX	CPT-4
27248	Open treatment of broken thigh bone	PX	CPT-4
27254	Open treatment of fracture and traumatic dislocation of hip socket and thigh bone	PX	CPT-4
27267	Closed treatment of broken thigh bone	PX	CPT-4
27268	Closed treatment of fracture of upper portion and head of thigh bone with manipulation	PX	CPT-4
27269	Open treatment of fracture of thigh bone	PX	CPT-4
27500	Closed treatment of thigh bone fracture	PX	CPT-4
27501	Closed treatment of broken thigh bone	PX	CPT-4
27502	Closed treatment of broken thigh bone with manipulation	PX	CPT-4
27503	Closed treatment of broken thigh bone with manipulation	PX	CPT-4
27506	Open treatment of broken thigh bone	PX	CPT-4
27507	Open treatment of broken thigh bone	PX	CPT-4
27508	Closed treatment of broken thigh bone	PX	CPT-4
27509	Insertion of hardware to stabilize broken thigh bone or separated growth plate, accessed through the skin	PX	CPT-4
27510	Closed treatment of broken thigh bone with manipulation	PX	CPT-4
27511	Open treatment of broken thigh bone	PX	CPT-4
27513	Open treatment of broken thigh bone	PX	CPT-4
27514	Open treatment of broken thigh bone	PX	CPT-4

cder\_mpl2p\_wp047 Page 606 of 702



Baseline Characteristics in this Request					
		Code	Code		
Code	Description	Туре	Category		
E0130	Walker, rigid (pickup), adjustable or fixed height	PX	HCPCS		
E0135	Walker, folding (pickup), adjustable or fixed height	PX	HCPCS		
E0140	Walker, with trunk support, adjustable or fixed height, any type	PX	HCPCS		
E0141	Walker, rigid, wheeled, adjustable or fixed height	PX	HCPCS		
E0142	Rigid walker, wheeled, with seat	PX	HCPCS		
E0143	Walker, folding, wheeled, adjustable or fixed height	PX	HCPCS		
E0144	Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seat	PX	HCPCS		
E0145	Walker, wheeled, with seat and crutch attachments	PX	HCPCS		
E0146	Folding walker, wheeled, with seat	PX	HCPCS		
E0147	Walker, heavy duty, multiple braking system, variable wheel resistance	PX	HCPCS		
E0148	Walker, heavy-duty, without wheels, rigid or folding, any type, each	PX	HCPCS		
E0149	Walker, heavy-duty, wheeled, rigid or folding, any type	PX	HCPCS		
E0154	Platform attachment, walker, each	PX	HCPCS		
E0155	Wheel attachment, rigid pick-up walker, per pair	PX	HCPCS		
E0156	Seat attachment, walker	PX	HCPCS		
E0157	Crutch attachment, walker, each	PX	HCPCS		
E0158	Leg extensions for walker, per set of 4	PX	HCPCS		
E0159	Brake attachment for wheeled walker, replacement, each	PX	HCPCS		
K0458	Heavy duty walker, without wheels, each	PX	HCPCS		
K0459	Heavy duty wheeled walker, each	PX	HCPCS		
L1520	Thkao, swivel walker	PX	HCPCS		
780.2	Syncope and collapse	DX	ICD-09-CM		
V00.01XA	Pedestrian on foot injured in collision with roller-skater, initial encounter	DX	ICD-10-CM		
V00.01XD	Pedestrian on foot injured in collision with roller-skater, subsequent encounter	DX	ICD-10-CM		
V00.02XA	Pedestrian on foot injured in collision with skateboarder, initial encounter	DX	ICD-10-CM		
V00.02XD	Pedestrian on foot injured in collision with skateboarder, subsequent encounter	DX	ICD-10-CM		
V00.09XA	Pedestrian on foot injured in collision with other pedestrian conveyance, initial encounter	DX	ICD-10-CM		
V00.09XD	Pedestrian on foot injured in collision with other pedestrian conveyance, subsequent	DX	ICD-10-CM		
	encounter				
V00.111A	Fall from in-line roller-skates, initial encounter	DX	ICD-10-CM		
V00.111D	Fall from in-line roller-skates, subsequent encounter	DX	ICD-10-CM		
V00.111S	Fall from in-line roller-skates, sequela	DX	ICD-10-CM		
V00.112A	In-line roller-skater colliding with stationary object, initial encounter	DX	ICD-10-CM		
V00.112D	In-line roller-skater colliding with stationary object, subsequent encounter	DX	ICD-10-CM		
V00.112S	In-line roller-skater colliding with stationary object, sequela	DX	ICD-10-CM		
V00.118A	Other in-line roller-skate accident, initial encounter	DX	ICD-10-CM		
V00.118D	Other in-line roller-skate accident, subsequent encounter	DX	ICD-10-CM		
V00.118S	Other in-line roller-skate accident, sequela	DX	ICD-10-CM		
V00.121A	Fall from non-in-line roller-skates, initial encounter	DX	ICD-10-CM		
V00.121D	Fall from non-in-line roller-skates, subsequent encounter	DX	ICD-10-CM		
V00.121S	Fall from non-in-line roller-skates, sequela	DX	ICD-10-CM		
V00.122A	Non-in-line roller-skater colliding with stationary object, initial encounter	DX	ICD-10-CM		
V00.122D	Non-in-line roller-skater colliding with stationary object, subsequent encounter	DX	ICD-10-CM		

cder\_mpl2p\_wp047 Page 607 of 702



		Code	Code
Code	Description	Type	Category
V00.122S	Non-in-line roller-skater colliding with stationary object, sequela	DX	ICD-10-CM
V00.128A	Other non-in-line roller-skating accident, initial encounter	DX	ICD-10-CM
V00.128D	Other non-in-line roller-skating accident, subsequent encounter	DX	ICD-10-CM
V00.128S	Other non-in-line roller-skating accident, sequela	DX	ICD-10-CM
V00.131A	Fall from skateboard, initial encounter	DX	ICD-10-CM
V00.131D	Fall from skateboard, subsequent encounter	DX	ICD-10-CM
V00.131S	Fall from skateboard, sequela	DX	ICD-10-CM
V00.132A	Skateboarder colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.132D	Skateboarder colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.132S	Skateboarder colliding with stationary object, sequela	DX	ICD-10-CM
V00.138A	Other skateboard accident, initial encounter	DX	ICD-10-CM
V00.138D	Other skateboard accident, subsequent encounter	DX	ICD-10-CM
V00.138S	Other skateboard accident, sequela	DX	ICD-10-CM
V00.141A	Fall from scooter (nonmotorized), initial encounter	DX	ICD-10-CM
V00.141D	Fall from scooter (nonmotorized), subsequent encounter	DX	ICD-10-CM
V00.141S	Fall from scooter (nonmotorized), sequela	DX	ICD-10-CM
V00.142A	Scooter (nonmotorized) colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.142D	Scooter (nonmotorized) colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.142S	Scooter (nonmotorized) colliding with stationary object, sequela	DX	ICD-10-CM
V00.148A	Other scooter (nonmotorized) accident, initial encounter	DX	ICD-10-CM
V00.148D	Other scooter (nonmotorized) accident, subsequent encounter	DX	ICD-10-CM
V00.148S	Other scooter (nonmotorized) accident, sequela	DX	ICD-10-CM
V00.151A	Fall from heelies, initial encounter	DX	ICD-10-CM
V00.151D	Fall from heelies, subsequent encounter	DX	ICD-10-CM
V00.151S	Fall from heelies, sequela	DX	ICD-10-CM
V00.152A	Heelies colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.152D	Heelies colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.152S	Heelies colliding with stationary object, sequela	DX	ICD-10-CM
V00.158A	Other heelies accident, initial encounter	DX	ICD-10-CM
V00.158D	Other heelies accident, subsequent encounter	DX	ICD-10-CM
V00.158S	Other heelies accident, sequela	DX	ICD-10-CM
V00.181A	Fall from other rolling-type pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.181D	Fall from other rolling-type pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.181S	Fall from other rolling-type pedestrian conveyance, sequela	DX	ICD-10-CM
V00.182A	Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.182D	Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.182S	Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, sequela	DX	ICD-10-CM
V00.188A	Other accident on other rolling-type pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.188D	Other accident on other rolling-type pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
<b></b>	Other accident on other rolling-type pedestrian conveyance, sequela	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 608 of 702



Dascinic Ci	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
V00.211A	Fall from ice-skates, initial encounter	DX	ICD-10-CM
V00.211D	Fall from ice-skates, subsequent encounter	DX	ICD-10-CM
V00.211S	Fall from ice-skates, sequela	DX	ICD-10-CM
V00.212A	Ice-skater colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.212D	Ice-skater colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.212S	Ice-skater colliding with stationary object, sequela	DX	ICD-10-CM
V00.218A	Other ice-skates accident, initial encounter	DX	ICD-10-CM
V00.218D	Other ice-skates accident, subsequent encounter	DX	ICD-10-CM
V00.218S	Other ice-skates accident, sequela	DX	ICD-10-CM
V00.221A	Fall from sled, initial encounter	DX	ICD-10-CM
V00.221D	Fall from sled, subsequent encounter	DX	ICD-10-CM
V00.221S	Fall from sled, sequela	DX	ICD-10-CM
V00.222A	Sledder colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.222D	Sledder colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.222S	Sledder colliding with stationary object, sequela	DX	ICD-10-CM
V00.228A	Other sled accident, initial encounter	DX	ICD-10-CM
V00.228D	Other sled accident, subsequent encounter	DX	ICD-10-CM
V00.228S	Other sled accident, sequela	DX	ICD-10-CM
V00.281A	Fall from other gliding-type pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.281D	Fall from other gliding-type pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.281S	Fall from other gliding-type pedestrian conveyance, sequela	DX	ICD-10-CM
V00.282A	Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object,	DX	ICD-10-CM
	initial encounter		
V00.282D	Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object,	DX	ICD-10-CM
	subsequent encounter		
V00.282S	Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object,	DX	ICD-10-CM
	sequela		
V00.288A	Other accident on other gliding-type pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.288D	Other accident on other gliding-type pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.288S	Other accident on other gliding-type pedestrian conveyance, sequela	DX	ICD-10-CM
V00.311A	Fall from snowboard, initial encounter	DX	ICD-10-CM
V00.311D	Fall from snowboard, subsequent encounter	DX	ICD-10-CM
V00.311S	Fall from snowboard, sequela	DX	ICD-10-CM
V00.312A	Snowboarder colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.312D	Snowboarder colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.312S	Snowboarder colliding with stationary object, sequela	DX	ICD-10-CM
V00.318A	Other snowboard accident, initial encounter	DX	ICD-10-CM
V00.318D	Other snowboard accident, subsequent encounter	DX	ICD-10-CM
V00.318S	Other snowboard accident, sequela	DX	ICD-10-CM
V00.321A	Fall from snow-skis, initial encounter	DX	ICD-10-CM
V00.321D	Fall from snow-skis, subsequent encounter	DX	ICD-10-CM
V00.321S	Fall from snow-skis, sequela	DX	ICD-10-CM
V00.322A	Snow-skier colliding with stationary object, initial encounter	DX	ICD-10-CM
		5,.	.02 20 0101

cder\_mpl2p\_wp047 Page 609 of 702



baseline Cr	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
V00.322D	Snow-skier colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.322S	Snow-skier colliding with stationary object, sequela	DX	ICD-10-CM
V00.328A	Other snow-ski accident, initial encounter	DX	ICD-10-CM
V00.328D	Other snow-ski accident, subsequent encounter	DX	ICD-10-CM
V00.328S	Other snow-ski accident, sequela	DX	ICD-10-CM
V00.381A	Fall from other flat-bottomed pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.381D	Fall from other flat-bottomed pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.381S	Fall from other flat-bottomed pedestrian conveyance, sequela	DX	ICD-10-CM
V00.382A	Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.382D	Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.382S	Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, sequela	DX	ICD-10-CM
V00.388A	Other accident on other flat-bottomed pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.388D	Other accident on other flat-bottomed pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.388S	Other accident on other flat-bottomed pedestrian conveyance, sequela	DX	ICD-10-CM
V00.811A	Fall from moving wheelchair (powered), initial encounter	DX	ICD-10-CM
V00.811D	Fall from moving wheelchair (powered), subsequent encounter	DX	ICD-10-CM
V00.811S	Fall from moving wheelchair (powered), sequela	DX	ICD-10-CM
V00.812A	Wheelchair (powered) colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.812D	Wheelchair (powered) colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.812S	Wheelchair (powered) colliding with stationary object, sequela	DX	ICD-10-CM
V00.818A	Other accident with wheelchair (powered), initial encounter	DX	ICD-10-CM
V00.818D	Other accident with wheelchair (powered), subsequent encounter	DX	ICD-10-CM
V00.818S	Other accident with wheelchair (powered), sequela	DX	ICD-10-CM
V00.821A	Fall from baby stroller, initial encounter	DX	ICD-10-CM
V00.821D	Fall from baby stroller, subsequent encounter	DX	ICD-10-CM
V00.821S	Fall from baby stroller, sequela	DX	ICD-10-CM
V00.822A	Baby stroller colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.822D	Baby stroller colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.822S	Baby stroller colliding with stationary object, sequela	DX	ICD-10-CM
V00.828A	Other accident with baby stroller, initial encounter	DX	ICD-10-CM
V00.828D	Other accident with baby stroller, subsequent encounter	DX	ICD-10-CM
V00.828S	Other accident with baby stroller, sequela	DX	ICD-10-CM
V00.831A	Fall from motorized mobility scooter, initial encounter	DX	ICD-10-CM
V00.831D	Fall from motorized mobility scooter, subsequent encounter	DX	ICD-10-CM
V00.831S	Fall from motorized mobility scooter, sequela	DX	ICD-10-CM
V00.832A	Motorized mobility scooter colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.832D	Motorized mobility scooter colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.832S	Motorized mobility scooter colliding with stationary object, sequela	DX	ICD-10-CM
V00.838A	Other accident with motorized mobility scooter, initial encounter	DX	ICD-10-CM
V00.838D	Other accident with motorized mobility scooter, subsequent encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 610 of 702



	aracteristics in this Request	Code	Code
Code	Description	Туре	Category
V00.838S	Other accident with motorized mobility scooter, sequela	DX	ICD-10-CM
V00.891A	Fall from other pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.891D	Fall from other pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.891S	Fall from other pedestrian conveyance, sequela	DX	ICD-10-CM
V00.892A	Pedestrian on other pedestrian conveyance colliding with stationary object, initial encounter	DX	ICD-10-CM
V00.892D	Pedestrian on other pedestrian conveyance colliding with stationary object, subsequent encounter	DX	ICD-10-CM
V00.892S	Pedestrian on other pedestrian conveyance colliding with stationary object, sequela	DX	ICD-10-CM
V00.898A	Other accident on other pedestrian conveyance, initial encounter	DX	ICD-10-CM
V00.898D	Other accident on other pedestrian conveyance, subsequent encounter	DX	ICD-10-CM
V00.898S	Other accident on other pedestrian conveyance, sequela	DX	ICD-10-CM
W00.0XXA	Fall on same level due to ice and snow, initial encounter	DX	ICD-10-CM
W00.0XXD	Fall on same level due to ice and snow, subsequent encounter	DX	ICD-10-CM
W00.0XXS	Fall on same level due to ice and snow, sequela	DX	ICD-10-CM
W00.1XXA	Fall from stairs and steps due to ice and snow, initial encounter	DX	ICD-10-CM
W00.1XXD	Fall from stairs and steps due to ice and snow, subsequent encounter	DX	ICD-10-CM
W00.1XXS	Fall from stairs and steps due to ice and snow, sequela	DX	ICD-10-CM
W00.2XXA	Other fall from one level to another due to ice and snow, initial encounter	DX	ICD-10-CM
W00.2XXD	Other fall from one level to another due to ice and snow, subsequent encounter	DX	ICD-10-CM
W00.2XXS	Other fall from one level to another due to ice and snow, sequela	DX	ICD-10-CM
W00.9XXA	Unspecified fall due to ice and snow, initial encounter	DX	ICD-10-CM
W00.9XXD	Unspecified fall due to ice and snow, subsequent encounter	DX	ICD-10-CM
W00.9XXS	Unspecified fall due to ice and snow, sequela	DX	ICD-10-CM
W01.0XXA	Fall on same level from slipping, tripping and stumbling without subsequent striking against object, initial encounter	DX	ICD-10-CM
W01.0XXD	Fall on same level from slipping, tripping and stumbling without subsequent striking against object, subsequent encounter	DX	ICD-10-CM
W01.0XXS	Fall on same level from slipping, tripping and stumbling without subsequent striking against object, sequela	DX	ICD-10-CM
W01.10XA	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, initial encounter	DX	ICD-10-CM
W01.10XD	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, subsequent encounter	DX	ICD-10-CM
W01.10XS	Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, sequela	DX	ICD-10-CM
W01.110A	Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, initial encounter	DX	ICD-10-CM
W01.110D	Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, subsequent encounter	DX	ICD-10-CM
W01.110S	Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, sequela	DX	ICD-10-CM
W01.111A	Fall on same level from slipping, tripping and stumbling with subsequent striking against power tool or machine, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 611 of 702



Duseline Cit	aracteristics in this Request	Code	Code
Code	Description	Туре	Category
W01.111D	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	power tool or machine, subsequent encounter		
W01.111S	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	power tool or machine, sequela		
W01.118A	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	other sharp object, initial encounter		
W01.118D	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	other sharp object, subsequent encounter		
W01.118S	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
11/04 4404	other sharp object, sequela	5.4	165 40 614
W01.119A	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
W01 110D	unspecified sharp object, initial encounter	DV	ICD 10 CM
W01.119D	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
W01.119S	unspecified sharp object, subsequent encounter Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
VVUI.1193	unspecified sharp object, sequela	DΛ	ICD-10-CIVI
W01.190A	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
W01.130A	furniture, initial encounter	DX	ICD-10-CIVI
W01.190D	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
***************************************	furniture, subsequent encounter	5,7	100 10 011
W01.190S	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	furniture, sequela		
W01.198A	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	other object, initial encounter		
W01.198D	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	other object, subsequent encounter		
W01.198S	Fall on same level from slipping, tripping and stumbling with subsequent striking against	DX	ICD-10-CM
	other object, sequela		
W03.XXXA	Other fall on same level due to collision with another person, initial encounter	DX	ICD-10-CM
W03.XXXD	Other fall on same level due to collision with another person, subsequent encounter	DX	ICD-10-CM
W03.XXXS	Other fall on same level due to collision with another person, sequela	DX	ICD-10-CM
W04.XXXA	Fall while being carried or supported by other persons, initial encounter	DX	ICD-10-CM
W04.XXXD	Fall while being carried or supported by other persons, subsequent encounter	DX	ICD-10-CM
W04.XXXS	Fall while being carried or supported by other persons, sequela	DX	ICD-10-CM
W05.0XXA	Fall from non-moving wheelchair, initial encounter	DX	ICD-10-CM
W05.0XXD	Fall from non-moving wheelchair, subsequent encounter	DX	ICD-10-CM
W05.0XXS	Fall from non-moving wheelchair, sequela	DX	ICD-10-CM
W05.1XXA	Fall from non-moving nonmotorized scooter, initial encounter	DX	ICD-10-CM
W05.1XXD	Fall from non-moving nonmotorized scooter, subsequent encounter	DX	ICD-10-CM
W05.1XXS	Fall from non-moving nonmotorized scooter, sequela	DX	ICD-10-CM
W05.2XXA W05.2XXD	Fall from non-moving motorized mobility scooter, initial encounter	DX	ICD-10-CM ICD-10-CM
W05.2XXD W05.2XXS	Fall from non-moving motorized mobility scooter, subsequent encounter Fall from non-moving motorized mobility scooter, sequela	DX DX	ICD-10-CM
VVUJ.ZĀĀŠ	i an morn non-moving motorized mobility scooler, sequeid	DΧ	ICD-TO-CIAI

cder\_mpl2p\_wp047 Page 612 of 702



Baseline Ch	aracteristics in this Request		
		Code	Code
Code	Description	Туре	Category
W06.XXXA	Fall from bed, initial encounter	DX	ICD-10-CM
W06.XXXD	Fall from bed, subsequent encounter	DX	ICD-10-CM
W06.XXXS	Fall from bed, sequela	DX	ICD-10-CM
W07.XXXA	Fall from chair, initial encounter	DX	ICD-10-CM
W07.XXXD	Fall from chair, subsequent encounter	DX	ICD-10-CM
W07.XXXS	Fall from chair, sequela	DX	ICD-10-CM
W08.XXXA	Fall from other furniture, initial encounter	DX	ICD-10-CM
W08.XXXD	Fall from other furniture, subsequent encounter	DX	ICD-10-CM
W08.XXXS	Fall from other furniture, sequela	DX	ICD-10-CM
W09.0XXA	Fall on or from playground slide, initial encounter	DX	ICD-10-CM
W09.0XXD	Fall on or from playground slide, subsequent encounter	DX	ICD-10-CM
W09.0XXS	Fall on or from playground slide, sequela	DX	ICD-10-CM
W09.1XXA	Fall from playground swing, initial encounter	DX	ICD-10-CM
W09.1XXD	Fall from playground swing, subsequent encounter	DX	ICD-10-CM
W09.1XXS	Fall from playground swing, sequela	DX	ICD-10-CM
W09.2XXA	Fall on or from jungle gym, initial encounter	DX	ICD-10-CM
W09.2XXD	Fall on or from jungle gym, subsequent encounter	DX	ICD-10-CM
W09.2XXS	Fall on or from jungle gym, sequela	DX	ICD-10-CM
W09.8XXA	Fall on or from other playground equipment, initial encounter	DX	ICD-10-CM
W09.8XXD	Fall on or from other playground equipment, subsequent encounter	DX	ICD-10-CM
W09.8XXS	Fall on or from other playground equipment, sequela	DX	ICD-10-CM
W10.0XXA	Fall (on)(from) escalator, initial encounter	DX	ICD-10-CM
W10.0XXD	Fall (on)(from) escalator, subsequent encounter	DX	ICD-10-CM
W10.0XXS	Fall (on)(from) escalator, sequela	DX	ICD-10-CM
W10.1XXA	Fall (on)(from) sidewalk curb, initial encounter	DX	ICD-10-CM
W10.1XXD	Fall (on)(from) sidewalk curb, subsequent encounter	DX	ICD-10-CM
W10.1XXS	Fall (on)(from) sidewalk curb, sequela	DX	ICD-10-CM
W10.2XXA	Fall (on)(from) incline, initial encounter	DX	ICD-10-CM
W10.2XXD	Fall (on)(from) incline, subsequent encounter	DX	ICD-10-CM
W10.2XXS	Fall (on)(from) incline, sequela	DX	ICD-10-CM
W10.8XXA	Fall (on) (from) other stairs and steps, initial encounter	DX	ICD-10-CM
W10.8XXD	Fall (on) (from) other stairs and steps, subsequent encounter	DX	ICD-10-CM
W10.8XXS	Fall (on) (from) other stairs and steps, sequela	DX	ICD-10-CM
W10.9XXA	Fall (on) (from) unspecified stairs and steps, initial encounter	DX	ICD-10-CM
W10.9XXD	Fall (on) (from) unspecified stairs and steps, subsequent encounter	DX	ICD-10-CM
W10.9XXS	Fall (on) (from) unspecified stairs and steps, sequela	DX	ICD-10-CM
W11.XXXA	Fall on and from ladder, initial encounter	DX	ICD-10-CM
W11.XXXD	Fall on and from ladder, subsequent encounter	DX	ICD-10-CM
W11.XXXS	Fall on and from ladder, sequela	DX	ICD-10-CM
W12.XXXA	Fall on and from scaffolding, initial encounter	DX	ICD-10-CM
W12.XXXD	Fall on and from scaffolding, subsequent encounter	DX	ICD-10-CM
W12.XXXS	Fall on and from scaffolding, sequela	DX	ICD-10-CM
W13.0XXA	Fall from, out of or through balcony, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 613 of 702



Baseline Characteristics in this Request				
		Code	Code	
Code	Description	Туре	Category	
W13.0XXD	Fall from, out of or through balcony, subsequent encounter	DX	ICD-10-CM	
W13.0XXS	Fall from, out of or through balcony, sequela	DX	ICD-10-CM	
W13.1XXA	Fall from, out of or through bridge, initial encounter	DX	ICD-10-CM	
W13.1XXD	Fall from, out of or through bridge, subsequent encounter	DX	ICD-10-CM	
W13.1XXS	Fall from, out of or through bridge, sequela	DX	ICD-10-CM	
W13.2XXA	Fall from, out of or through roof, initial encounter	DX	ICD-10-CM	
W13.2XXD	Fall from, out of or through roof, subsequent encounter	DX	ICD-10-CM	
W13.2XXS	Fall from, out of or through roof, sequela	DX	ICD-10-CM	
W13.3XXA	Fall through floor, initial encounter	DX	ICD-10-CM	
W13.3XXD	Fall through floor, subsequent encounter	DX	ICD-10-CM	
W13.3XXS	Fall through floor, sequela	DX	ICD-10-CM	
W13.4XXA	Fall from, out of or through window, initial encounter	DX	ICD-10-CM	
W13.4XXD	Fall from, out of or through window, subsequent encounter	DX	ICD-10-CM	
W13.4XXS	Fall from, out of or through window, sequela	DX	ICD-10-CM	
W13.8XXA	Fall from, out of or through other building or structure, initial encounter	DX	ICD-10-CM	
W13.8XXD	Fall from, out of or through other building or structure, subsequent encounter	DX	ICD-10-CM	
W13.8XXS	Fall from, out of or through other building or structure, sequela	DX	ICD-10-CM	
W13.9XXA	Fall from, out of or through building, not otherwise specified, initial encounter	DX	ICD-10-CM	
W13.9XXD	Fall from, out of or through building, not otherwise specified, subsequent encounter	DX	ICD-10-CM	
W13.9XXS	Fall from, out of or through building, not otherwise specified, sequela	DX	ICD-10-CM	
W14.XXXA	Fall from tree, initial encounter	DX	ICD-10-CM	
W14.XXXD	Fall from tree, subsequent encounter	DX	ICD-10-CM	
W14.XXXS	Fall from tree, sequela	DX	ICD-10-CM	
W15.XXXA	Fall from cliff, initial encounter	DX	ICD-10-CM	
W15.XXXD	Fall from cliff, subsequent encounter	DX	ICD-10-CM	
W15.XXXS	Fall from cliff, sequela	DX	ICD-10-CM	
W16.011A	Fall into swimming pool striking water surface causing drowning and submersion, initial	DX	ICD-10-CM	
	encounter			
W16.011D	Fall into swimming pool striking water surface causing drowning and submersion, subsequent	DX	ICD-10-CM	
	encounter			
W16.011S	Fall into swimming pool striking water surface causing drowning and submersion, sequela	DX	ICD-10-CM	
W16.012A	Fall into swimming pool striking water surface causing other injury, initial encounter	DX	ICD-10-CM	
W16.012D	Fall into swimming pool striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM	
W16.012S	Fall into swimming pool striking water surface causing other injury, sequela	DX	ICD-10-CM	
W16.021A	Fall into swimming pool striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM	
W16.021D	Fall into swimming pool striking bottom causing drowning and submersion, subsequent	DX	ICD-10-CM	
	encounter		.02 20 0	
W16.021S	Fall into swimming pool striking bottom causing drowning and submersion, sequela	DX	ICD-10-CM	
W16.022A	Fall into swimming pool striking bottom causing other injury, initial encounter	DX	ICD-10-CM	
W16.022D	Fall into swimming pool striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM	
W16.022S	Fall into swimming pool striking bottom causing other injury, sequela	DX	ICD-10-CM	
W16.031A	Fall into swimming pool striking wall causing drowning and submersion, initial encounter	DX	ICD-10-CM	

cder\_mpl2p\_wp047 Page 614 of 702



Justinic Ci	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
W16.031D	Fall into swimming pool striking wall causing drowning and submersion, subsequent	DX	ICD-10-CM
	encounter		
W16.031S	Fall into swimming pool striking wall causing drowning and submersion, sequela	DX	ICD-10-CM
W16.032A	Fall into swimming pool striking wall causing other injury, initial encounter	DX	ICD-10-CM
W16.032D	Fall into swimming pool striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.032S	Fall into swimming pool striking wall causing other injury, sequela	DX	ICD-10-CM
W16.111A	Fall into natural body of water striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.111D	Fall into natural body of water striking water surface causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.111S	Fall into natural body of water striking water surface causing drowning and submersion, sequela	DX	ICD-10-CM
W16.112A	Fall into natural body of water striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.112D	Fall into natural body of water striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.112S	Fall into natural body of water striking water surface causing other injury, sequela	DX	ICD-10-CM
W16.1123	Fall into natural body of water striking water surface causing other injury, sequela	DX	ICD-10-CM
VV10.121A	encounter	DX	ICD-10-CIVI
W16.121D	Fall into natural body of water striking bottom causing drowning and submersion,	DX	ICD-10-CM
W16 1316	subsequent encounter	DV	ICD 10 CM
W16.121S W16.122A	Fall into natural body of water striking bottom causing drowning and submersion, sequela	DX	ICD-10-CM
W16.122A W16.122D	Fall into natural body of water striking bottom causing other injury, initial encounter Fall into natural body of water striking bottom causing other injury, subsequent encounter	DX DX	ICD-10-CM ICD-10-CM
W16.1225	Fall into natural body of water striking bottom causing other injury, subsequent encounter	DX	ICD-10-CW
W16.1223	Fall into natural body of water striking bottom causing other injury, sequeia  Fall into natural body of water striking side causing drowning and submersion, initial	DX	ICD-10-CW
W10.131A	encounter	DX	ICD-10-CIVI
W16.131D	Fall into natural body of water striking side causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.131S	Fall into natural body of water striking side causing drowning and submersion, sequela	DX	ICD-10-CM
W16.132A	Fall into natural body of water striking side causing other injury, initial encounter	DX	ICD-10-CM
W16.132D	Fall into natural body of water striking side causing other injury, subsequent encounter	DX	ICD-10-CM
W16.132S	Fall into natural body of water striking side causing other injury, sequela	DX	ICD-10-CM
W16.211A	Fall in (into) filled bathtub causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.211D	Fall in (into) filled bathtub causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.211S	Fall in (into) filled bathtub causing drowning and submersion, sequela	DX	ICD-10-CM
W16.212A	Fall in (into) filled bathtub causing other injury, initial encounter	DX	ICD-10-CM
W16.212D	Fall in (into) filled bathtub causing other injury, subsequent encounter	DX	ICD-10-CM
W16.212S	Fall in (into) filled bathtub causing other injury, sequela	DX	ICD-10-CM
W16.221A	Fall in (into) bucket of water causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.221D	Fall in (into) bucket of water causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.221S	Fall in (into) bucket of water causing drowning and submersion, sequela	DX	ICD-10-CM
W16.222A	Fall in (into) bucket of water causing other injury, initial encounter	DX	ICD-10-CM
W16.222D	Fall in (into) bucket of water causing other injury, subsequent encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 615 of 702



Dascille Cl	aracteristics in this Request	Code	Code
Code	Description	Туре	Category
W16.222S	Fall in (into) bucket of water causing other injury, sequela	DX	ICD-10-CM
W16.311A	Fall into other water striking water surface causing drowning and submersion, initial	DX	ICD-10-CM
W16.311D	Fall into other water striking water surface causing drowning and submersion, subsequent	DX	ICD-10-CM
	encounter		
W16.311S	Fall into other water striking water surface causing drowning and submersion, sequela	DX	ICD-10-CM
W16.312A	Fall into other water striking water surface causing other injury, initial encounter	DX	ICD-10-CM
W16.312D	Fall into other water striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.312S	Fall into other water striking water surface causing other injury, sequela	DX	ICD-10-CM
W16.321A	Fall into other water striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.321D	Fall into other water striking bottom causing drowning and submersion, subsequent	DX	ICD-10-CM
	encounter		
W16.321S	Fall into other water striking bottom causing drowning and submersion, sequela	DX	ICD-10-CM
W16.322A	Fall into other water striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.322D	Fall into other water striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.322S	Fall into other water striking bottom causing other injury, sequela	DX	ICD-10-CM
W16.331A	Fall into other water striking wall causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.331D	Fall into other water striking wall causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.331S	Fall into other water striking wall causing drowning and submersion, sequela	DX	ICD-10-CM
W16.332A	Fall into other water striking wall causing other injury, initial encounter	DX	ICD-10-CM
W16.332D	Fall into other water striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.332S	Fall into other water striking wall causing other injury, sequela	DX	ICD-10-CM
W16.41XA	Fall into unspecified water causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.41XD	Fall into unspecified water causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.41XS	Fall into unspecified water causing drowning and submersion, sequela	DX	ICD-10-CM
W16.42XA	Fall into unspecified water causing other injury, initial encounter	DX	ICD-10-CM
W16.42XD	Fall into unspecified water causing other injury, subsequent encounter	DX	ICD-10-CM
W16.42XS	Fall into unspecified water causing other injury, sequela	DX	ICD-10-CM
W16.511A	Jumping or diving into swimming pool striking water surface causing drowning and	DX	ICD-10-CM
	submersion, initial encounter		
W16.511D	Jumping or diving into swimming pool striking water surface causing drowning and	DX	ICD-10-CM
	submersion, subsequent encounter		
W16.511S	Jumping or diving into swimming pool striking water surface causing drowning and	DX	ICD-10-CM
	submersion, sequela		
W16.512A	Jumping or diving into swimming pool striking water surface causing other injury, initial	DX	ICD-10-CM
	encounter		
W16.512D	Jumping or diving into swimming pool striking water surface causing other injury, subsequent	DX	ICD-10-CM
	encounter		
W16.512S	Jumping or diving into swimming pool striking water surface causing other injury, sequela	DX	ICD-10-CM
W16.521A	Jumping or diving into swimming pool striking bottom causing drowning and submersion,	DX	ICD-10-CM
	initial encounter		
W16.521D	Jumping or diving into swimming pool striking bottom causing drowning and submersion,	DX	ICD-10-CM
	subsequent encounter		

cder\_mpl2p\_wp047 Page 616 of 702



Code	Description	Code	Code
W16.521S	Jumping or diving into swimming pool striking bottom causing drowning and submersion,	<b>Type</b> DX	ICD-10-CM
N 10.3213	sequela	DΛ	ICD-10-CIVI
N16.522A	Jumping or diving into swimming pool striking bottom causing other injury, initial encounter	DX	ICD-10-CM
V16.522D	Jumping or diving into swimming pool striking bottom causing other injury, subsequent	DX	ICD-10-CM
	encounter		.02 20 0
V16.522S	Jumping or diving into swimming pool striking bottom causing other injury, sequela	DX	ICD-10-CM
W16.531A	Jumping or diving into swimming pool striking wall causing drowning and submersion, initial	DX	ICD-10-CM
	encounter		
W16.531D	Jumping or diving into swimming pool striking wall causing drowning and submersion,	DX	ICD-10-CM
	subsequent encounter		
W16.531S	Jumping or diving into swimming pool striking wall causing drowning and submersion,	DX	ICD-10-CM
W16.532A	Jumping or diving into swimming pool striking wall causing other injury, initial encounter	DX	ICD-10-CM
V16.532D	Jumping or diving into swimming pool striking wall causing other injury, subsequent	DX	ICD-10-CM
W16.532S	Jumping or diving into swimming pool striking wall causing other injury, sequela	DX	ICD-10-CM
W16.611A	Jumping or diving into natural body of water striking water surface causing drowning and	DX	ICD-10-CM
	submersion, initial encounter		
W16.611D	Jumping or diving into natural body of water striking water surface causing drowning and	DX	ICD-10-CM
	submersion, subsequent encounter		
V16.611S	Jumping or diving into natural body of water striking water surface causing drowning and	DX	ICD-10-CM
	submersion, sequela		
V16.612A	Jumping or diving into natural body of water striking water surface causing other injury,	DX	ICD-10-CM
	initial encounter	51/	100 10 011
V16.612D	Jumping or diving into natural body of water striking water surface causing other injury,	DX	ICD-10-CM
V1C C12C	subsequent encounter	DV	ICD 10 CM
V16.612S	Jumping or diving into natural body of water striking water surface causing other injury,	DX	ICD-10-CM
V16.621A	sequela  Jumping or diving into natural body of water striking bottom causing drowning and	DX	ICD-10-CM
/10.021A	submersion, initial encounter	DΛ	ICD-10-CIVI
V16.621D	Jumping or diving into natural body of water striking bottom causing drowning and	DX	ICD-10-CM
10.0210	submersion, subsequent encounter	DΛ	100 10 0141
V16.621S	Jumping or diving into natural body of water striking bottom causing drowning and	DX	ICD-10-CM
0. 0 0	submersion, sequela		.02 20 0
V16.622A	Jumping or diving into natural body of water striking bottom causing other injury, initial	DX	ICD-10-CM
	encounter		
W16.622D	Jumping or diving into natural body of water striking bottom causing other injury, subsequent	DX	ICD-10-CM
	encounter		
W16.622S	Jumping or diving into natural body of water striking bottom causing other injury, sequela	DX	ICD-10-CM
W16.711A	Jumping or diving from boat striking water surface causing drowning and submersion, initial	DX	ICD-10-CM
	encounter		
W16.711D	Jumping or diving from boat striking water surface causing drowning and submersion,	DX	ICD-10-CM
	subsequent encounter		
W16.711S	Jumping or diving from boat striking water surface causing drowning and submersion,	DX	ICD-10-CM
W16.712A	Jumping or diving from boat striking water surface causing other injury, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 617 of 702



	aracteristics in this Request	Code	Code
Code	Description	Type	Category
W16.712D	Jumping or diving from boat striking water surface causing other injury, subsequent	DX	ICD-10-CM
W16.712S	Jumping or diving from boat striking water surface causing other injury, sequela	DX	ICD-10-CM
W16.721A	Jumping or diving from boat striking bottom causing drowning and submersion, initial	DX	ICD-10-CM
	encounter		
W16.721D	Jumping or diving from boat striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.721S	Jumping or diving from boat striking bottom causing drowning and submersion, sequela	DX	ICD-10-CM
W16.722A	Jumping or diving from boat striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.722D	Jumping or diving from boat striking bottom causing other injury, subsequent encounter	DX	ICD-10-CM
W16.722S	Jumping or diving from boat striking bottom causing other injury, sequela	DX	ICD-10-CM
W16.811A	Jumping or diving into other water striking water surface causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.811D	Jumping or diving into other water striking water surface causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.811S	Jumping or diving into other water striking water surface causing drowning and submersion, sequela	DX	ICD-10-CM
W16.812A	Jumping or diving into other water striking water surface causing other injury, initial	DX	ICD-10-CM
W16.812D	Jumping or diving into other water striking water surface causing other injury, subsequent encounter	DX	ICD-10-CM
W16.812S	Jumping or diving into other water striking water surface causing other injury, sequela	DX	ICD-10-CM
W16.821A	Jumping or diving into other water striking bottom causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.821D	Jumping or diving into other water striking bottom causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.821S	Jumping or diving into other water striking bottom causing drowning and submersion,	DX	ICD-10-CM
W16.822A	Jumping or diving into other water striking bottom causing other injury, initial encounter	DX	ICD-10-CM
W16.822D	Jumping or diving into other water striking bottom causing other injury, subsequent	DX	ICD-10-CM
W16.822S	Jumping or diving into other water striking bottom causing other injury, sequela	DX	ICD-10-CM
W16.831A	Jumping or diving into other water striking wall causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.831D	Jumping or diving into other water striking wall causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.831S	Jumping or diving into other water striking wall causing drowning and submersion, sequela	DX	ICD-10-CM
W16.832A	Jumping or diving into other water striking wall causing other injury, initial encounter	DX	ICD-10-CM
W16.832D	Jumping or diving into other water striking wall causing other injury, subsequent encounter	DX	ICD-10-CM
W16.832S	Jumping or diving into other water striking wall causing other injury, sequela	DX	ICD-10-CM
W16.91XA	Jumping or diving into unspecified water causing drowning and submersion, initial encounter	DX	ICD-10-CM
W16.91XD	Jumping or diving into unspecified water causing drowning and submersion, subsequent encounter	DX	ICD-10-CM
W16.91XS	Jumping or diving into unspecified water causing drowning and submersion, sequela	DX	ICD-10-CM
W16.92XA	Jumping or diving into unspecified water causing other injury, initial encounter	DX	ICD-10-CM
W16.92XD	Jumping or diving into unspecified water causing other injury, subsequent encounter	DX	ICD-10-CM
W16.92XS	Jumping or diving into unspecified water causing other injury, sequela	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 618 of 702



Daseinic Cit	aracteristics in this Request	Code	Code
Code	Description	Туре	Category
W17.0XXA	Fall into well, initial encounter	DX	ICD-10-CM
W17.0XXD	Fall into well, subsequent encounter	DX	ICD-10-CM
W17.0XXS	Fall into well, sequela	DX	ICD-10-CM
W17.1XXA	Fall into storm drain or manhole, initial encounter	DX	ICD-10-CM
W17.1XXD	Fall into storm drain or manhole, subsequent encounter	DX	ICD-10-CM
W17.1XXS	Fall into storm drain or manhole, sequela	DX	ICD-10-CM
W17.2XXA	Fall into hole, initial encounter	DX	ICD-10-CM
W17.2XXD	Fall into hole, subsequent encounter	DX	ICD-10-CM
W17.2XXS	Fall into hole, sequela	DX	ICD-10-CM
W17.3XXA	Fall into empty swimming pool, initial encounter	DX	ICD-10-CM
W17.3XXD	Fall into empty swimming pool, subsequent encounter	DX	ICD-10-CM
W17.3XXS	Fall into empty swimming pool, sequela	DX	ICD-10-CM
W17.4XXA	Fall from dock, initial encounter	DX	ICD-10-CM
W17.4XXD	Fall from dock, subsequent encounter	DX	ICD-10-CM
W17.4XXS	Fall from dock, sequela	DX	ICD-10-CM
W17.81XA	Fall down embankment (hill), initial encounter	DX	ICD-10-CM
W17.81XD	Fall down embankment (hill), subsequent encounter	DX	ICD-10-CM
W17.81XS	Fall down embankment (hill), sequela	DX	ICD-10-CM
W17.82XA	Fall from (out of) grocery cart, initial encounter	DX	ICD-10-CM
W17.82XD	Fall from (out of) grocery cart, subsequent encounter	DX	ICD-10-CM
W17.82XS	Fall from (out of) grocery cart, sequela	DX	ICD-10-CM
W17.89XA	Other fall from one level to another, initial encounter	DX	ICD-10-CM
W17.89XD	Other fall from one level to another, subsequent encounter	DX	ICD-10-CM
W17.89XS	Other fall from one level to another, sequela	DX	ICD-10-CM
W18.00XA	Striking against unspecified object with subsequent fall, initial encounter	DX	ICD-10-CM
W18.00XD	Striking against unspecified object with subsequent fall, subsequent encounter	DX	ICD-10-CM
W18.00XS	Striking against unspecified object with subsequent fall, sequela	DX	ICD-10-CM
W18.01XA	Striking against sports equipment with subsequent fall, initial encounter	DX	ICD-10-CM
W18.01XD	Striking against sports equipment with subsequent fall, subsequent encounter	DX	ICD-10-CM
W18.01XS	Striking against sports equipment with subsequent fall, sequela	DX	ICD-10-CM
W18.02XA	Striking against glass with subsequent fall, initial encounter	DX	ICD-10-CM
W18.02XD	Striking against glass with subsequent fall, subsequent encounter	DX	ICD-10-CM
W18.02XS	Striking against glass with subsequent fall, sequela	DX	ICD-10-CM
W18.09XA	Striking against other object with subsequent fall, initial encounter	DX	ICD-10-CM
W18.09XD	Striking against other object with subsequent fall, subsequent encounter	DX	ICD-10-CM
W18.09XS	Striking against other object with subsequent fall, sequela	DX	ICD-10-CM
W18.11XA	Fall from or off toilet without subsequent striking against object, initial encounter	DX	ICD-10-CM
W18.11XD	Fall from or off toilet without subsequent striking against object, subsequent encounter	DX	ICD-10-CM
W18.11XS	Fall from or off toilet without subsequent striking against object, sequela	DX	ICD-10-CM
W18.12XA	Fall from or off toilet with subsequent striking against object, initial encounter	DX	ICD-10-CM
W18.12XD	Fall from or off toilet with subsequent striking against object, subsequent encounter	DX	ICD-10-CM
W18.12XS	Fall from or off toilet with subsequent striking against object, sequela	DX	ICD-10-CM
W18.2XXA	Fall in (into) shower or empty bathtub, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 619 of 702



	aracteristics in this Request	Code	Code
Code	Description	Туре	Category
W18.2XXD	Fall in (into) shower or empty bathtub, subsequent encounter	DX	ICD-10-CM
W18.2XXS	Fall in (into) shower or empty bathtub, sequela	DX	ICD-10-CM
W18.30XA	Fall on same level, unspecified, initial encounter	DX	ICD-10-CM
W18.30XD	Fall on same level, unspecified, subsequent encounter	DX	ICD-10-CM
W18.30XS	Fall on same level, unspecified, sequela	DX	ICD-10-CM
W18.31XA	Fall on same level due to stepping on an object, initial encounter	DX	ICD-10-CM
W18.31XD	Fall on same level due to stepping on an object, subsequent encounter	DX	ICD-10-CM
W18.31XS	Fall on same level due to stepping on an object, sequela	DX	ICD-10-CM
W18.39XA	Other fall on same level, initial encounter	DX	ICD-10-CM
W18.39XD	Other fall on same level, subsequent encounter	DX	ICD-10-CM
W18.39XS	Other fall on same level, sequela	DX	ICD-10-CM
W18.40XA	Slipping, tripping and stumbling without falling, unspecified, initial encounter	DX	ICD-10-CM
W18.40XD	Slipping, tripping and stumbling without falling, unspecified, subsequent encounter	DX	ICD-10-CM
W18.40XS	Slipping, tripping and stumbling without falling, unspecified, sequela	DX	ICD-10-CM
W18.41XA	Slipping, tripping and stumbling without falling due to stepping on object, initial encounter	DX	ICD-10-CM
W18.41XD	Slipping, tripping and stumbling without falling due to stepping on object, subsequent encounter	DX	ICD-10-CM
W18.41XS	Slipping, tripping and stumbling without falling due to stepping on object, sequela	DX	ICD-10-CM
W18.42XA	Slipping, tripping and stumbling without falling due to stepping into hole or opening, initial encounter	DX	ICD-10-CM
W18.42XD	Slipping, tripping and stumbling without falling due to stepping into hole or opening, subsequent encounter	DX	ICD-10-CM
W18.42XS	Slipping, tripping and stumbling without falling due to stepping into hole or opening, sequela	DX	ICD-10-CM
W18.43XA	Slipping, tripping and stumbling without falling due to stepping from one level to another, initial encounter	DX	ICD-10-CM
W18.43XD	Slipping, tripping and stumbling without falling due to stepping from one level to another, subsequent encounter	DX	ICD-10-CM
W18.43XS	Slipping, tripping and stumbling without falling due to stepping from one level to another, sequela	DX	ICD-10-CM
W18.49XA	Other slipping, tripping and stumbling without falling, initial encounter	DX	ICD-10-CM
W18.49XD	Other slipping, tripping and stumbling without falling, subsequent encounter	DX	ICD-10-CM
W18.49XS	Other slipping, tripping and stumbling without falling, sequela	DX	ICD-10-CM
W19.XXXA	Unspecified fall, initial encounter	DX	ICD-10-CM
W19.XXXD	Unspecified fall, subsequent encounter	DX	ICD-10-CM
W19.XXXS	Unspecified fall, sequela	DX	ICD-10-CM
W50.0XXA	Accidental hit or strike by another person, initial encounter	DX	ICD-10-CM
W50.0XXD	Accidental hit or strike by another person, subsequent encounter	DX	ICD-10-CM
W50.1XXA	Accidental kick by another person, initial encounter	DX	ICD-10-CM
W50.1XXD	Accidental kick by another person, subsequent encounter	DX	ICD-10-CM
W50.2XXA	Accidental twist by another person, initial encounter	DX	ICD-10-CM
W50.2XXD	Accidental twist by another person, subsequent encounter	DX	ICD-10-CM
W50.4XXA	Accidental scratch by another person, initial encounter	DX	ICD-10-CM
W50.4XXD	Accidental scratch by another person, subsequent encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 620 of 702



Baseline Ch	aracteristics in this Request	6-3	C1
Code	Description	Code	Code
Code	Description  Assidental striking against or humand into by another person, initial ansaymter	Type	Category
W51.XXXA	Accidental striking against or bumped into by another person, initial encounter	DX	ICD-10-CM
W51.XXXD	Accidental striking against or bumped into by another person, subsequent encounter	DX	ICD-10-CM
W52.XXXA	Crushed, pushed or stepped on by crowd or human stampede, initial encounter	DX	ICD-10-CM
S22.31XA	Fracture of one rib, right side, initial encounter for closed fracture	DX	ICD-10-CM
S22.31XB	Fracture of one rib, right side, initial encounter for open fracture	DX	ICD-10-CM
S22.32XA	Fracture of one rib, left side, initial encounter for closed fracture	DX	ICD-10-CM
S22.32XB	Fracture of one rib, left side, initial encounter for open fracture	DX	ICD-10-CM
S22.39XA	Fracture of one rib, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S22.39XB	Fracture of one rib, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S22.41XA	Multiple fractures of ribs, right side, initial encounter for closed fracture	DX	ICD-10-CM
S22.41XB	Multiple fractures of ribs, right side, initial encounter for open fracture	DX	ICD-10-CM
S22.42XA	Multiple fractures of ribs, left side, initial encounter for closed fracture	DX	ICD-10-CM
S22.42XB	Multiple fractures of ribs, left side, initial encounter for open fracture	DX	ICD-10-CM
S22.43XA	Multiple fractures of ribs, bilateral, initial encounter for closed fracture	DX	ICD-10-CM
S22.43XB	Multiple fractures of ribs, bilateral, initial encounter for open fracture	DX	ICD-10-CM
S22.49XA	Multiple fractures of ribs, unspecified side, initial encounter for closed fracture	DX	ICD-10-CM
S22.49XB	Multiple fractures of ribs, unspecified side, initial encounter for open fracture	DX	ICD-10-CM
S42.001A	Fracture of unspecified part of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.001B	Fracture of unspecified part of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.002A	Fracture of unspecified part of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.002B	Fracture of unspecified part of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.009A	Fracture of unspecified part of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.009B	Fracture of unspecified part of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.011A	Anterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.011B	Anterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.012A	Anterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.012B	Anterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.013A	Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.013B	Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open	DX	ICD-10-CM
	fracture		
S42.014A	Posterior displaced fracture of sternal end of right clavicle, initial encounter for closed	DX	ICD-10-CM
S42.014B	Posterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.015A	Posterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.015B	Posterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.016A	Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.016B	Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.017A	Nondisplaced fracture of sternal end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.017B	Nondisplaced fracture of sternal end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.018A	Nondisplaced fracture of sternal end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.018B	Nondisplaced fracture of sternal end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 621 of 702



Daseinie Ci	naracteristics in this Request	Code	Code
Code	Description	Type	Category
S42.019A	Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for closed	DX	ICD-10-CM
	fracture		
S42.019B	Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for open	DX	ICD-10-CM
S42.021A	Displaced fracture of shaft of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.021B	Displaced fracture of shaft of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.022A	Displaced fracture of shaft of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.022B	Displaced fracture of shaft of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.023A	Displaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.023B	Displaced fracture of shaft of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.024A	Nondisplaced fracture of shaft of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.024B	Nondisplaced fracture of shaft of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.025A	Nondisplaced fracture of shaft of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.025B	Nondisplaced fracture of shaft of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.026A	Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.026B	Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.031A	Displaced fracture of lateral end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.031B	Displaced fracture of lateral end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.032A	Displaced fracture of lateral end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.032B	Displaced fracture of lateral end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.033A	Displaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.033B	Displaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.034A	Nondisplaced fracture of lateral end of right clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.034B	Nondisplaced fracture of lateral end of right clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.035A	Nondisplaced fracture of lateral end of left clavicle, initial encounter for closed fracture	DX	ICD-10-CM
S42.035B	Nondisplaced fracture of lateral end of left clavicle, initial encounter for open fracture	DX	ICD-10-CM
S42.036A	Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for closed	DX	ICD-10-CM
S42.036B	Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for open	DX	ICD-10-CM
S52.001A	Unspecified fracture of upper end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.001B	Unspecified fracture of upper end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.001C	Unspecified fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.002A	Unspecified fracture of upper end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.002B	Unspecified fracture of upper end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.002C	Unspecified fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.009A	Unspecified fracture of upper end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.009B	Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.009C	Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.011A	Torus fracture of upper end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.012A	Torus fracture of upper end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.019A	Torus fracture of upper end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 622 of 702



	naracteristics in this Request	Code	Code
Code	Description	Type	Category
S52.021A	Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.021B	Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.021C	Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.022A	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.022B	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.022C	Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.023A	Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.023B	Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.023C	Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.024A	Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.024B	Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.024C	Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.025A	Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.025B	Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.025C	Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.026A	Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.026B	Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.026C	Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.031A	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.031B	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.031C	Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 623 of 702



Code	Description	Code	Code Category
		Type	ICD-10-CM
S52.032A	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture	DX	ICD-10-CIVI
S52.032B	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.032C	Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
552.033A	Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.033B	Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.033C	Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.034A	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.034B	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.034C	Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.035A	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.035B	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
552.035C	Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
552.036A	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
552.036B	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
552.036C	Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
552.041A	Displaced fracture of coronoid process of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
552.041B	Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.041C	Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.042A	Displaced fracture of coronoid process of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.042B	Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.042C	Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.043A	Displaced fracture of coronoid process of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
S52.043B	Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 624 of 702



basellile Cl	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.043C	Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.044A	Nondisplaced fracture of coronoid process of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.044B	Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.044C	Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.045A	Nondisplaced fracture of coronoid process of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.045B	Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.045C	Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.046A	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.046B	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.046C	Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.091A	Other fracture of upper end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.091B	Other fracture of upper end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.091C	Other fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.092A	Other fracture of upper end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.092B	Other fracture of upper end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.092C	Other fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.099A	Other fracture of upper end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.099B	Other fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.099C	Other fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.101A	Unspecified fracture of upper end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.101B	Unspecified fracture of upper end of right radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.101C	Unspecified fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.102A	Unspecified fracture of upper end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.102B	Unspecified fracture of upper end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.102C	Unspecified fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.109A	Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.109B	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.109C	Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.111A	Torus fracture of upper end of right radius, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 625 of 702



Dascille Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.112A	Torus fracture of upper end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.119A	Torus fracture of upper end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.121A	Displaced fracture of head of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.121B	Displaced fracture of head of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.121C	Displaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.122A	Displaced fracture of head of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.122B	Displaced fracture of head of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.122C	Displaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.123A	Displaced fracture of head of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.123B	Displaced fracture of head of unspecified radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.123C	Displaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.124A	Nondisplaced fracture of head of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.124B	Nondisplaced fracture of head of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.124C	Nondisplaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.125A	Nondisplaced fracture of head of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.125B	Nondisplaced fracture of head of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.125C	Nondisplaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.126A	Nondisplaced fracture of head of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.126B	Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.126C	Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.131A	Displaced fracture of neck of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.131B	Displaced fracture of neck of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.131C	Displaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.132A	Displaced fracture of neck of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.132B	Displaced fracture of neck of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.132C	Displaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.133A	Displaced fracture of neck of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.133B	Displaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.133C	Displaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.134A	Nondisplaced fracture of neck of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.134B	Nondisplaced fracture of neck of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.134C	Nondisplaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.135A	Nondisplaced fracture of neck of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.135B	Nondisplaced fracture of neck of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 626 of 702



Date in C	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.135C	Nondisplaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.136A	Nondisplaced fracture of neck of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.136B	Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.136C	Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.181A	Other fracture of upper end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.181B	Other fracture of upper end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.181C	Other fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.182A	Other fracture of upper end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.182B	Other fracture of upper end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.182C	Other fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.189A	Other fracture of upper end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.189B	Other fracture of upper end of unspecified radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.189C	Other fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.201A	Unspecified fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.201B	Unspecified fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.201C	Unspecified fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.202A	Unspecified fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.202B	Unspecified fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.202C	Unspecified fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.209A	Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.209B	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.209C	Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.211A	Greenstick fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.212A	Greenstick fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.219A	Greenstick fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.221A	Displaced transverse fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.221B	Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.221C	Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.222A	Displaced transverse fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.222B	Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.222C	Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.223A	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 627 of 702



		Code	Code
Code	Description	Туре	Category
S52.223B	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.223C	Displaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.224A	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.224B	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.224C	Nondisplaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.225A	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.225B	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.225C	Nondisplaced transverse fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.226A	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.226B	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.226C	Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.231A	Displaced oblique fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.231B	Displaced oblique fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.231C	Displaced oblique fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.232A	Displaced oblique fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.232B	Displaced oblique fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.232C	Displaced oblique fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.233A	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.233B	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.233C	Displaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.234A	Nondisplaced oblique fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.234B	Nondisplaced oblique fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.234C	Nondisplaced oblique fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.235A	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.235B	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.235C	Nondisplaced oblique fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 628 of 702



Dascinic Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.236A	Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for closed	DX	ICD-10-CM
S52.236B	Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.236C	Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.241A	Displaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.241B	Displaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.241C	Displaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.242A	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.242B	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.242C	Displaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.243A	Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.243B	Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.243C	Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.244A	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.244B	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.244C	Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.245A	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.245B	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.245C	Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.246A	Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.246B	Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.246C	Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.251A	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed	DX	ICD-10-CM
S52.251B	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.251C	Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.252A	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.252B	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 629 of 702



		Code	Code
Code	Description	Type	Category
S52.252C	Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.253A	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.253B	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.253C	Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.254A	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.254B	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.254C	Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.255A	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.255B	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.255C	Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.256A	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.256B	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.256C	Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.261A	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.261B	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.261C	Displaced segmental fracture of shaft of ulna, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.262A	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.262B	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.262C	Displaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.263A	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.263B	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.263C	Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 630 of 702



	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.264A	Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.264B	Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.264C	Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for open	DX	ICD-10-CM
CE2 2CE4	fracture type IIIA, IIIB, or IIIC	DV	ICD 40 CM
S52.265A	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for closed	DX	ICD-10-CM
S52.265B	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.265C	Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for open fracture	DX	ICD-10-CM
332.2030	type IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S52.266A	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for	DX	ICD-10-CM
	closed fracture		
S52.266B	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.266C	Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.271A	Monteggia's fracture of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.271B	Monteggia's fracture of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.271C	Monteggia's fracture of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.272A	Monteggia's fracture of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.272B	Monteggia's fracture of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.272C	Monteggia's fracture of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.279A	Monteggia's fracture of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.279B	Monteggia's fracture of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.279C	Monteggia's fracture of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.281A	Bent bone of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.281B	Bent bone of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.281C	Bent bone of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.282A	Bent bone of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.282B	Bent bone of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.282C	Bent bone of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.283A	Bent bone of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.283B	Bent bone of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.283C	Bent bone of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.291A	Other fracture of shaft of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.291B	Other fracture of shaft of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.291C	Other fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.292A	Other fracture of shaft of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.292B	Other fracture of shaft of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.292C	Other fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.299A	Other fracture of shaft of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 631 of 702



		Code	Code
Code	Description	Туре	Category
S52.299B	Other fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.299C	Other fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.301A	Unspecified fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.301B	Unspecified fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.301C	Unspecified fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.302A	Unspecified fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.302B	Unspecified fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.302C	Unspecified fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.309A	Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.309B	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.309C	Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.311A	Greenstick fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.312A	Greenstick fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.319A	Greenstick fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.321A	Displaced transverse fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.321B	Displaced transverse fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.321C	Displaced transverse fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.322A	Displaced transverse fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.322B	Displaced transverse fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.322C	Displaced transverse fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.323A	Displaced transverse fracture of shaft of unspecified radius, initial encounter for closed	DX	ICD-10-CM
S52.323B	Displaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.323C	Displaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.324A	Nondisplaced transverse fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.324B	Nondisplaced transverse fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.324C	Nondisplaced transverse fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.325A	Nondisplaced transverse fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.325B	Nondisplaced transverse fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 632 of 702



baseline Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.325C	Nondisplaced transverse fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.326A	Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.326B	Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.326C	Nondisplaced transverse fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.331A	Displaced oblique fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.331B	Displaced oblique fracture of shaft of right radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.331C	Displaced oblique fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.332A	Displaced oblique fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.332B	Displaced oblique fracture of shaft of left radius, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.332C	Displaced oblique fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.333A	Displaced oblique fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.333B	Displaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.333C	Displaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.334A	Nondisplaced oblique fracture of shaft of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.334B	Nondisplaced oblique fracture of shaft of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.334C	Nondisplaced oblique fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.335A	Nondisplaced oblique fracture of shaft of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.335B	Nondisplaced oblique fracture of shaft of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.335C	Nondisplaced oblique fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.336A	Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.336B	Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.336C	Nondisplaced oblique fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.341A	Displaced spiral fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.341B	Displaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.341C	Displaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.342A	Displaced spiral fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 633 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.342B	Displaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.342C	Displaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.343A	Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.343B	Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.343C	Displaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.344A	Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.344B	Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.344C	Nondisplaced spiral fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.345A	Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.345B	Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.345C	Nondisplaced spiral fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.346A	Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.346B	Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.346C	Nondisplaced spiral fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.351A	Displaced comminuted fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.351B	Displaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.351C	Displaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.352A	Displaced comminuted fracture of shaft of radius, left arm, initial encounter for closed	DX	ICD-10-CM
S52.352B	Displaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.352C	Displaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.353A	Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.353B	Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.353C	Displaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 634 of 702



C- I-	Description.	Code	Code
Code	Description C. L.	Туре	Category
S52.354A	Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.354B	Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.354C	Nondisplaced comminuted fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.355A	Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.355B	Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.355C	Nondisplaced comminuted fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.356A	Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.356B	Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.356C	Nondisplaced comminuted fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.361A	Displaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.361B	Displaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.361C	Displaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.362A	Displaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.362B	Displaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.362C	Displaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.363A	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.363B	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.363C	Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.364A	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.364B	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.364C	Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.365A	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 635 of 702



	naracteristics in this Request	Code	Code
Code	Description	Type	Category
S52.365B	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.365C	Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.366A	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.366B	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.366C	Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.371A	Galeazzi's fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.371B	Galeazzi's fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.371C	Galeazzi's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.372A	Galeazzi's fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.372B	Galeazzi's fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.372C	Galeazzi's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.379A	Galeazzi's fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.379B	Galeazzi's fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.379C	Galeazzi's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.381A	Bent bone of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.381B	Bent bone of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.381C	Bent bone of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.382A	Bent bone of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.382B	Bent bone of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.382C	Bent bone of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.389A	Bent bone of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.389B	Bent bone of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.389C	Bent bone of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.391A	Other fracture of shaft of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.391B	Other fracture of shaft of radius, right arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.391C	Other fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.392A	Other fracture of shaft of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.392B	Other fracture of shaft of radius, left arm, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.392C	Other fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.399A	Other fracture of shaft of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S52.399B	Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.399C	Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.501A	Unspecified fracture of the lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.501B	Unspecified fracture of the lower end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 636 of 702



Codo	Description	Code	Code
Code	Description Color of the Land	Туре	Category
S52.501C	Unspecified fracture of the lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.502A	Unspecified fracture of the lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.502B	Unspecified fracture of the lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.502C	Unspecified fracture of the lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.509A	Unspecified fracture of the lower end of unspecified radius, initial encounter for closed	DX	ICD-10-CM
S52.509B	Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.509C	Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.511A	Displaced fracture of right radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.511B	Displaced fracture of right radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.511C	Displaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.512A	Displaced fracture of left radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.512B	Displaced fracture of left radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.512C	Displaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.513A	Displaced fracture of unspecified radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.513B	Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.513C	Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.514A	Nondisplaced fracture of right radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.514B	Nondisplaced fracture of right radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.514C	Nondisplaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.515A	Nondisplaced fracture of left radial styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.515B	Nondisplaced fracture of left radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.515C	Nondisplaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.516A	Nondisplaced fracture of unspecified radial styloid process, initial encounter for closed	DX	ICD-10-CM
S52.516B	Nondisplaced fracture of unspecified radial styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.516C	Nondisplaced fracture of unspecified radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.521A	Torus fracture of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.522A	Torus fracture of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.529A	Torus fracture of lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 637 of 702



baseline Cr	naracteristics in this Request	Code	Code
Code	Description	Type	Category
S52.531A	Colles' fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.531B	Colles' fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.531C	Colles' fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.532A	Colles' fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.532B	Colles' fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.532C	Colles' fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.539A	Colles' fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.539B	Colles' fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.539C	Colles' fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.541A	Smith's fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.541B	Smith's fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.541C	Smith's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.542A	Smith's fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.542B	Smith's fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.542C	Smith's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.549A	Smith's fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.549B	Smith's fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.549C	Smith's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.551A	Other extraarticular fracture of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.551B	Other extraarticular fracture of lower end of right radius, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.551C	Other extraarticular fracture of lower end of right radius, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.552A	Other extraarticular fracture of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.552B	Other extraarticular fracture of lower end of left radius, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.552C	Other extraarticular fracture of lower end of left radius, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.559A	Other extraarticular fracture of lower end of unspecified radius, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.559B	Other extraarticular fracture of lower end of unspecified radius, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.559C	Other extraarticular fracture of lower end of unspecified radius, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S52.561A	Barton's fracture of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.561B	Barton's fracture of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.561C	Barton's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.562A	Barton's fracture of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.562B	Barton's fracture of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.562C	Barton's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.569A	Barton's fracture of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.569B	Barton's fracture of unspecified radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.569C	Barton's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 638 of 702



baseiiile Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S52.571A	Other intraarticular fracture of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.571B	Other intraarticular fracture of lower end of right radius, initial encounter for open fracture	DX	ICD-10-CM
	type I or II		
S52.571C	Other intraarticular fracture of lower end of right radius, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S52.572A	Other intraarticular fracture of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.572B	Other intraarticular fracture of lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.572C	Other intraarticular fracture of lower end of left radius, initial encounter for open fracture	DX	ICD-10-CM
002.07.20	type IIIA, IIIB, or IIIC		.02 20 0
S52.579A	Other intraarticular fracture of lower end of unspecified radius, initial encounter for closed	DX	ICD-10-CM
	fracture		
S52.579B	Other intraarticular fracture of lower end of unspecified radius, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S52.579C	Other intraarticular fracture of lower end of unspecified radius, initial encounter for open	DX	ICD-10-CM
S52.591A	fracture type IIIA, IIIB, or IIIC Other fractures of lower end of right radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.591A	Other fractures of lower end of right radius, initial encounter for open fracture type I or II	DX	ICD-10-CW
S52.591C	Other fractures of lower end of right radius, initial encounter for open fracture type for in	DX	ICD-10-CIVI
332.3910	or IIIC	DX	ICD-10-CIVI
S52.592A	Other fractures of lower end of left radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.592B	Other fractures of lower end of left radius, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.592C	Other fractures of lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.599A	Other fractures of lower end of unspecified radius, initial encounter for closed fracture	DX	ICD-10-CM
S52.599B	Other fractures of lower end of unspecified radius, initial encounter for open fracture type I	DX	ICD-10-CM
	or II		
S52.599C	Other fractures of lower end of unspecified radius, initial encounter for open fracture type	DX	ICD-10-CM
	IIIA, IIIB, or IIIC		
S52.601A	Unspecified fracture of lower end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.601B	Unspecified fracture of lower end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.601C	Unspecified fracture of lower end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.602A	Unspecified fracture of lower end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.602B	Unspecified fracture of lower end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.602C	Unspecified fracture of lower end of left ulna, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S52.609A	Unspecified fracture of lower end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.609B	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.609C	Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.611A	Displaced fracture of right ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 639 of 702



baseline Ci	naracteristics in this Request	Code	Code
Code	Description	Type	Category
S52.611B	Displaced fracture of right ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.611C	Displaced fracture of right ulna styloid process, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S52.612A	Displaced fracture of left ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.612B	Displaced fracture of left ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.612C	Displaced fracture of left ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.613A	Displaced fracture of unspecified ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.613B	Displaced fracture of unspecified ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.613C	Displaced fracture of unspecified ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.614A	Nondisplaced fracture of right ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.614B	Nondisplaced fracture of right ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.614C	Nondisplaced fracture of right ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.615A	Nondisplaced fracture of left ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.615B	Nondisplaced fracture of left ulna styloid process, initial encounter for open fracture type I or	DX	ICD-10-CM
S52.615C	Nondisplaced fracture of left ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.616A	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for closed fracture	DX	ICD-10-CM
S52.616B	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.616C	Nondisplaced fracture of unspecified ulna styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.621A	Torus fracture of lower end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.622A	Torus fracture of lower end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.629A	Torus fracture of lower end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.691A	Other fracture of lower end of right ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.691B	Other fracture of lower end of right ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.691C	Other fracture of lower end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.692A	Other fracture of lower end of left ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.692B	Other fracture of lower end of left ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.692C	Other fracture of lower end of left ulna, initial encounter for open fracture type IIIA, IIIB, or	DX	ICD-10-CM
S52.699A	Other fracture of lower end of unspecified ulna, initial encounter for closed fracture	DX	ICD-10-CM
S52.699B	Other fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II	DX	ICD-10-CM
S52.699C	Other fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.90XA	Unspecified fracture of unspecified forearm, initial encounter for closed fracture	DX	ICD-10-CM
S52.90XB	Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 640 of 702



		Code	Code
Code	Description	Туре	Category
S52.90XC	Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S52.91XA	Unspecified fracture of right forearm, initial encounter for closed fracture	DX	ICD-10-CM
552.91XB	Unspecified fracture of right forearm, initial encounter for open fracture type I or II	DX	ICD-10-CM
552.91XC	Unspecified fracture of right forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
552.92XA	Unspecified fracture of left forearm, initial encounter for closed fracture	DX	ICD-10-CM
552.92XB	Unspecified fracture of left forearm, initial encounter for open fracture type I or II	DX	ICD-10-CM
552.92XC	Unspecified fracture of left forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
559.001A	Unspecified physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.002A	Unspecified physeal fracture of lower end of ulna, left arm, initial encounter for closed	DX	ICD-10-CM
S59.009A	Unspecified physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
559.011A	Salter-Harris Type I physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
559.012A	Salter-Harris Type I physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
559.019A	Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
59.021A	Salter-Harris Type II physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
559.022A	Salter-Harris Type II physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
559.029A	Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
559.031A	Salter-Harris Type III physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
559.032A	Salter-Harris Type III physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
59.039A	Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
559.041A	Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
559.042A	Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
559.049A	Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.091A	Other physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture	DX	ICD-10-CM
59.092A	Other physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.099A	Other physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.101A	Unspecified physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 641 of 702



Code	Description	Code Type	Code Category
S59.102A	Unspecified physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.109A	Unspecified physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.111A	Salter-Harris Type I physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.112A	Salter-Harris Type I physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.119A	Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.121A	Salter-Harris Type II physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.122A	Salter-Harris Type II physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.129A	Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.131A	Salter-Harris Type III physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.132A	Salter-Harris Type III physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.139A	Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.141A	Salter-Harris Type IV physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.142A	Salter-Harris Type IV physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.149A	Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.191A	Other physeal fracture of upper end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.192A	Other physeal fracture of upper end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.199A	Other physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.201A	Unspecified physeal fracture of lower end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.202A	Unspecified physeal fracture of lower end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.209A	Unspecified physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.211A	Salter-Harris Type I physeal fracture of lower end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.212A	Salter-Harris Type I physeal fracture of lower end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 642 of 702



Code	Description	Code Type	Code Category
S59.219A	Salter-Harris Type I physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.221A	Salter-Harris Type II physeal fracture of lower end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.222A	Salter-Harris Type II physeal fracture of lower end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.229A	Salter-Harris Type II physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.231A	Salter-Harris Type III physeal fracture of lower end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.232A	Salter-Harris Type III physeal fracture of lower end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.239A	Salter-Harris Type III physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.241A	Salter-Harris Type IV physeal fracture of lower end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.242A	Salter-Harris Type IV physeal fracture of lower end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.249A	Salter-Harris Type IV physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.291A	Other physeal fracture of lower end of radius, right arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.292A	Other physeal fracture of lower end of radius, left arm, initial encounter for closed fracture	DX	ICD-10-CM
S59.299A	Other physeal fracture of lower end of radius, unspecified arm, initial encounter for closed fracture	DX	ICD-10-CM
S72.001A	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.001B	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.001C	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.002A	Fracture of unspecified part of neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.002B	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.002C	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.009A	Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.009B	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.009C	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.011A	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.011B	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.011C	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.012A	Unspecified intracapsular fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 643 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S72.012B	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.012C	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.019A	Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.019B	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.019C	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.021A	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.021B	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.021C	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.022A	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.022B	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.022C	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.023A	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.023B	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.023C	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.024A	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.024B	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.024C	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.025A	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.025B	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.025C	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.026A	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.026B	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 644 of 702



		Code	Code
Code	Description	Type	Category
S72.026C	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial	DX	ICD-10-CM
	encounter for open fracture type IIIA, IIIB, or IIIC		
S72.031A	Displaced midcervical fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.031B	Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.031C	Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S72.032A	Displaced midcervical fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.032B	Displaced midcervical fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.032C	Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB,	DX	ICD-10-CM
	or IIIC		
S72.033A	Displaced midcervical fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.033B	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I	DX	ICD-10-CM
	or II		

cder\_mpl2p\_wp047 Page 645 of 702



		Code	Code
Code	Description	Туре	Category
S72.033C	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.034A	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.034B	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.034C	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.035A	Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.035B	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.035C	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.036A	Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.036B	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.036C	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.041A	Displaced fracture of base of neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.041B	Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.041C	Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.042A	Displaced fracture of base of neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.042B	Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.042C	Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.043A	Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.043B	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.043C	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.044A	Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.044B	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.044C	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.045A	Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.045B	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.045C	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.046A	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.046B	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 646 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
S72.046C	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.051A	Unspecified fracture of head of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.051B	Unspecified fracture of head of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.051C	Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.052A	Unspecified fracture of head of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.052B	Unspecified fracture of head of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.052C	Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.059A	Unspecified fracture of head of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.059B	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.059C	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.061A	Displaced articular fracture of head of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.061B	Displaced articular fracture of head of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.061C	Displaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.062A	Displaced articular fracture of head of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.062B	Displaced articular fracture of head of left femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.062C	Displaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.063A	Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.063B	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.063C	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.064A	Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.064B	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.064C	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.065A	Nondisplaced articular fracture of head of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.065B	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.065C	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.066A	Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.066B	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 647 of 702



		Code	Code
Code	Description	Туре	Category
S72.066C	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.091A	Other fracture of head and neck of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.091B	Other fracture of head and neck of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.091C	Other fracture of head and neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.092A	Other fracture of head and neck of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.092B	Other fracture of head and neck of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.092C	Other fracture of head and neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.099A	Other fracture of head and neck of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.099B	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.099C	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.101A	Unspecified trochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.101B	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.101C	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.102A	Unspecified trochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.102B	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.102C	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.109A	Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.109B	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.109C	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.111A	Displaced fracture of greater trochanter of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.111B	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.111C	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.112A	Displaced fracture of greater trochanter of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.112B	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.112C	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.113A	Displaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.113B	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 648 of 702



	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
S72.113C	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.114A	Nondisplaced fracture of greater trochanter of right femur, initial encounter for closed	DX	ICD-10-CM
S72.114B	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.114C	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.115A	Nondisplaced fracture of greater trochanter of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.115B	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.115C	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.116A	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.116B	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.116C	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.121A	Displaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.121B	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.121C	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.122A	Displaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.122B	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.122C	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.123A	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.123B	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.123C	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.124A	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.124B	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.124C	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.125A	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.125B	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 649 of 702



		Code	Code
Code	Description	Туре	Category
S72.125C	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.126A	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for closed	DX	ICD-10-CM
C72 126D	fracture  Negdiculated fracture of lesses trachenter of unenesified femus, initial angulator for one	DV	ICD 10 CM
S72.126B	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.126C	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S72.131A	Displaced apophyseal fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.131B	Displaced apophyseal fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.131C	Displaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA,	DX	ICD-10-CM
	IIIB, or IIIC		
S72.132A	Displaced apophyseal fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.132B	Displaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.132C	Displaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.133A	Displaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.133B	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I	DX	ICD-10-CM
	or II		
S72.133C	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.134A	Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.134B	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.134C	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.135A	Nondisplaced apophyseal fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.135B	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.135C	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.136A	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.136B	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.136C	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture	DX	ICD-10-CM
	type IIIA, IIIB, or IIIC		
S72.141A	Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.141B	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.141C	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.142A	Displaced intertrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.142B	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.142C	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 650 of 702



	infactoristics in this request	Code	Code
Code	Description	Туре	Category
S72.143A	Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.143B	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.143C	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.144A	Nondisplaced intertrochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.144B	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.144C	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.145A	Nondisplaced intertrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.145B	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.145C	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.146A	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.146B	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.146C	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.21XA	Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.21XB	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.21XC	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.22XA	Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.22XB	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or	DX	ICD-10-CM
S72.22XC	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.23XA	Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.23XB	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.23XC	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.24XA	Nondisplaced subtrochanteric fracture of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.24XB	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	DX	ICD-10-CM
S72.24XC	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	DX	ICD-10-CM
S72.25XA	Nondisplaced subtrochanteric fracture of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S72.25XB	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 651 of 702



Code	Description	Code Type	Code Category
S72.25XC	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type	DX	ICD-10-CM
37 Z.Z3AC	IIIA, IIIB, or IIIC	DX	ICD-10-CIVI
S72.26XA	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed	DX	ICD-10-CM
0, =.=0,	fracture		.02 20 0
S72.26XB	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type I or II		
S72.26XC	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open	DX	ICD-10-CM
	fracture type IIIA, IIIB, or IIIC		
S79.001A	Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.002A	Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.009A	Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S79.011A	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S79.012A	Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed	DX	ICD-10-CM
	fracture		
S79.019A	Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for	DX	ICD-10-CM
	closed fracture		
S79.091A	Other physeal fracture of upper end of right femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.092A	Other physeal fracture of upper end of left femur, initial encounter for closed fracture	DX	ICD-10-CM
S79.099A	Other physeal fracture of upper end of unspecified femur, initial encounter for closed	DX	ICD-10-CM
OPBH0ZZ	Excision of Right Radius, Open Approach	PX	ICD-10-CM
OPBJ0ZZ	Excision of Left Radius, Open Approach	PX	ICD-10-CM
OPBK0ZZ	Excision of Right Ulna, Open Approach	PX	ICD-10-CM
OPBL0ZZ	Excision of Left Ulna, Open Approach	PX	ICD-10-CM
0PH004Z	Insertion of Internal Fixation Device into Sternum, Open Approach	PX	ICD-10-CM
OPH034Z	Insertion of Internal Fixation Device into Sternum, Percutaneous Approach	PX	ICD-10-CM
0PH044Z	Insertion of Internal Fixation Device into Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPH104Z	Insertion of Internal Fixation Device into 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
OPH134Z	Insertion of Internal Fixation Device into 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
0PH144Z	Insertion of Internal Fixation Device into 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PH204Z	Insertion of Internal Fixation Device into 3 or More Ribs, Open Approach	PX	ICD-10-CM
0PH234Z	Insertion of Internal Fixation Device into 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
OPH244Z	Insertion of Internal Fixation Device into 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPH504Z	Insertion of Internal Fixation Device into Right Scapula, Open Approach	PX	ICD-10-CM
0PH534Z	Insertion of Internal Fixation Device into Right Scapula, Percutaneous Approach	PX	ICD-10-CM
OPH544Z	Insertion of Internal Fixation Device into Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PH604Z	Insertion of Internal Fixation Device into Left Scapula, Open Approach	PX	ICD-10-CM
0PH634Z	Insertion of Internal Fixation Device into Left Scapula, Percutaneous Approach	PX	ICD-10-CM
0PH644Z	Insertion of Internal Fixation Device into Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PH704Z	Insertion of Internal Fixation Device into Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PH734Z	Insertion of Internal Fixation Device into Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 652 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
0PH744Z	Insertion of Internal Fixation Device into Right Glenoid Cavity, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0PH804Z	Insertion of Internal Fixation Device into Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PH834Z	Insertion of Internal Fixation Device into Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
0PH844Z	Insertion of Internal Fixation Device into Left Glenoid Cavity, Percutaneous Endoscopic	PX	ICD-10-CM
00110047	Approach	<b>D</b> V	100 40 614
0PH904Z	Insertion of Internal Fixation Device into Right Clavicle, Open Approach	PX	ICD-10-CM
0PH934Z	Insertion of Internal Fixation Device into Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
0PH944Z	Insertion of Internal Fixation Device into Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHBO4Z	Insertion of Internal Fixation Device into Left Clavicle, Open Approach	PX	ICD-10-CM
OPHB34Z	Insertion of Internal Fixation Device into Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPHB44Z	Insertion of Internal Fixation Device into Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHH04Z	Insertion of Internal Fixation Device into Right Radius, Open Approach	PX	ICD-10-CM
OPHH05Z	Insertion of External Fixation Device into Right Radius, Open Approach	PX	ICD-10-CM
0PHH06Z	Insertion of Intramedullary Internal Fixation Device into Right Radius, Open Approach	PX	ICD-10-CM
0PHH0BZ	Insertion of Monoplanar External Fixation Device into Right Radius, Open Approach	PX	ICD-10-CM
0PHH0CZ	Insertion of Ring External Fixation Device into Right Radius, Open Approach	PX	ICD-10-CM
0PHH0DZ	Insertion of Hybrid External Fixation Device into Right Radius, Open Approach	PX	ICD-10-CM
0PHH34Z	Insertion of Internal Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPHH35Z	Insertion of External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPHH36Z	Insertion of Intramedullary Internal Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPHH3BZ	Insertion of Monoplanar External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPHH3CZ	Insertion of Ring External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-CM
0PHH3DZ	Insertion of Hybrid External Fixation Device into Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPHH44Z	Insertion of Internal Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHH45Z	Insertion of External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHH46Z	Insertion of Intramedullary Internal Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHH4BZ	Insertion of Monoplanar External Fixation Device into Right Radius, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0PHH4CZ	Insertion of Ring External Fixation Device into Right Radius, Percutaneous Endoscopic	PX	ICD-10-CM
0PHH4DZ	Insertion of Hybrid External Fixation Device into Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHJ04Z	Insertion of Internal Fixation Device into Left Radius, Open Approach	PX	ICD-10-CM
OPHJ05Z	Insertion of External Fixation Device into Left Radius, Open Approach	PX	ICD-10-CM
OPHJ06Z	Insertion of Intramedullary Internal Fixation Device into Left Radius, Open Approach	PX	ICD-10-CM
OPHJOBZ	Insertion of Monoplanar External Fixation Device into Left Radius, Open Approach	PX	ICD-10-CM
OPHJOCZ	Insertion of Ring External Fixation Device into Left Radius, Open Approach	PX	ICD-10-CM
OPHJODZ	Insertion of Hybrid External Fixation Device into Left Radius, Open Approach	PX	ICD-10-CM
OPHJ34Z	Insertion of Internal Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-CM
0PHJ35Z	Insertion of External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPHJ36Z	Insertion of Intramedullary Internal Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPHJ3BZ	Insertion of Monoplanar External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-CW
OFTIJODA	insertion of Monopianal External Fixation Device lifto Left Radius, Percutaneous Approach	гΛ	ICD-TO-CIVI

cder\_mpl2p\_wp047 Page 653 of 702



Daseillie Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
0PHJ3CZ	Insertion of Ring External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-CM
0PHJ3DZ	Insertion of Hybrid External Fixation Device into Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPHJ44Z	Insertion of Internal Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHJ45Z	Insertion of External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHJ46Z	Insertion of Intramedullary Internal Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHJ4BZ	Insertion of Monoplanar External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHJ4CZ	Insertion of Ring External Fixation Device into Left Radius, Percutaneous Endoscopic	PX	ICD-10-CM
0PHJ4DZ	Insertion of Hybrid External Fixation Device into Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHK04Z	Insertion of Internal Fixation Device into Right Ulna, Open Approach	PX	ICD-10-CM
OPHK05Z	Insertion of External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-CM
OPHK06Z	Insertion of Intramedullary Internal Fixation Device into Right Ulna, Open Approach	PX	ICD-10-CM
OPHK0BZ	Insertion of Monoplanar External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-CM
OPHK0CZ	Insertion of Ring External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-CM
OPHK0DZ	Insertion of Hybrid External Fixation Device into Right Ulna, Open Approach	PX	ICD-10-CM
0PHK34Z	Insertion of Internal Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHK35Z	Insertion of External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHK36Z	Insertion of Intramedullary Internal Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHK3BZ	Insertion of Monoplanar External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHK3CZ	Insertion of Ring External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHK3DZ	Insertion of Hybrid External Fixation Device into Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHK44Z	Insertion of Internal Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHK45Z	Insertion of External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHK46Z	Insertion of Intramedullary Internal Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHK4BZ	Insertion of Monoplanar External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHK4CZ	Insertion of Ring External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHK4DZ	Insertion of Hybrid External Fixation Device into Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPHL04Z	Insertion of Internal Fixation Device into Left Ulna, Open Approach	PX	ICD-10-CM
OPHL05Z	Insertion of External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-CM
OPHL06Z	Insertion of Intramedullary Internal Fixation Device into Left Ulna, Open Approach	PX	ICD-10-CM
OPHLOBZ	Insertion of Monoplanar External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-CM
0PHL0CZ	Insertion of Ring External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-CM
0PHL0DZ	Insertion of Hybrid External Fixation Device into Left Ulna, Open Approach	PX	ICD-10-CM
0PHL34Z	Insertion of Internal Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHL35Z	Insertion of External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHL36Z	Insertion of Intramedullary Internal Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPHL3BZ	Insertion of Monoplanar External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-CM
0PHL3CZ	Insertion of Ring External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 654 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
0PHL3DZ	Insertion of Hybrid External Fixation Device into Left Ulna, Percutaneous Approach	PX	ICD-10-CM
0PHL44Z	Insertion of Internal Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHL45Z	Insertion of External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHL46Z	Insertion of Intramedullary Internal Fixation Device into Left Ulna, Percutaneous Endoscopic	PX	ICD-10-CM
00111.407	Approach	D)/	100 40 604
0PHL4BZ	Insertion of Monoplanar External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHL4CZ	Insertion of Ring External Fixation Device into Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PHL4DZ	Insertion of Hybrid External Fixation Device into Left Ulna, Percutaneous Endoscopic	PX	ICD-10-CM
OPN00ZZ	Release Sternum, Open Approach	PX	ICD-10-CM
OPN03ZZ	Release Sternum, Percutaneous Approach	PX	ICD-10-CM
OPN04ZZ	Release Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN10ZZ	Release 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
OPN13ZZ	Release 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
OPN14ZZ	Release 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN20ZZ	Release 3 or More Ribs, Open Approach	PX	ICD-10-CM
OPN23ZZ	Release 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
OPN24ZZ	Release 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN50ZZ	Release Right Scapula, Open Approach	PX	ICD-10-CM
0PN53ZZ	Release Right Scapula, Percutaneous Approach	PX	ICD-10-CM
0PN54ZZ	Release Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN60ZZ	Release Left Scapula, Open Approach	PX	ICD-10-CM
0PN63ZZ	Release Left Scapula, Percutaneous Approach	PX	ICD-10-CM
OPN64ZZ	Release Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN70ZZ	Release Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
OPN73ZZ	Release Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
OPN74ZZ	Release Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN80ZZ	Release Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
OPN83ZZ	Release Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
OPN84ZZ	Release Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPN90ZZ	Release Right Clavicle, Open Approach	PX	ICD-10-CM
OPN93ZZ	Release Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPN94ZZ	Release Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPNB0ZZ	Release Left Clavicle, Open Approach	PX	ICD-10-CM
OPNB3ZZ	Release Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPNB4ZZ	Release Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PNH0ZZ	Release Right Radius, Open Approach	PX	ICD-10-CM
0PNH3ZZ	Release Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPNH4ZZ	Release Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PNJ0ZZ	Release Left Radius, Open Approach	PX	ICD-10-CM
0PNJ3ZZ	Release Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPNJ4ZZ	Release Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPNK0ZZ	Release Right Ulna, Open Approach	PX	ICD-10-CM
- '			

cder\_mpl2p\_wp047 Page 655 of 702



Daseillie Ci	naracteristics in this Request	Code	Code
Code	Description	Type	Category
OPNK3ZZ	Release Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPNK4ZZ	Release Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPNL0ZZ	Release Left Ulna, Open Approach	PX	ICD-10-CM
OPNL3ZZ	Release Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPNL4ZZ	Release Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP004Z	Removal of Internal Fixation Device from Sternum, Open Approach	PX	ICD-10-CM
0PP007Z	Removal of Autologous Tissue Substitute from Sternum, Open Approach	PX	ICD-10-CM
OPP00JZ	Removal of Synthetic Substitute from Sternum, Open Approach	PX	ICD-10-CM
OPP00KZ	Removal of Nonautologous Tissue Substitute from Sternum, Open Approach	PX	ICD-10-CM
0PP034Z	Removal of Internal Fixation Device from Sternum, Percutaneous Approach	PX	ICD-10-CM
0PP037Z	Removal of Autologous Tissue Substitute from Sternum, Percutaneous Approach	PX	ICD-10-CM
OPP03JZ	Removal of Synthetic Substitute from Sternum, Percutaneous Approach	PX	ICD-10-CM
OPP03KZ	Removal of Nonautologous Tissue Substitute from Sternum, Percutaneous Approach	PX	ICD-10-CM
0PP044Z	Removal of Internal Fixation Device from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP047Z	Removal of Autologous Tissue Substitute from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP04JZ	Removal of Synthetic Substitute from Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP04KZ	Removal of Nonautologous Tissue Substitute from Sternum, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0PP104Z	Removal of Internal Fixation Device from 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
0PP107Z	Removal of Autologous Tissue Substitute from 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
OPP10JZ	Removal of Synthetic Substitute from 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
OPP10KZ	Removal of Nonautologous Tissue Substitute from 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
0PP134Z	Removal of Internal Fixation Device from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
OPP137Z	Removal of Autologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
OPP13JZ	Removal of Synthetic Substitute from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
OPP13KZ	Removal of Nonautologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
OPP144Z	Removal of Internal Fixation Device from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP147Z	Removal of Autologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Endoscopic	PX	ICD-10-CM
OPP14JZ	Removal of Synthetic Substitute from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP14KZ	Removal of Nonautologous Tissue Substitute from 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP204Z	Removal of Internal Fixation Device from 3 or More Ribs, Open Approach	PX	ICD-10-CM
0PP207Z	Removal of Autologous Tissue Substitute from 3 or More Ribs, Open Approach	PX	ICD-10-CM
OPP20JZ	Removal of Synthetic Substitute from 3 or More Ribs, Open Approach	PX	ICD-10-CM
OPP20KZ	Removal of Nonautologous Tissue Substitute from 3 or More Ribs, Open Approach	PX	ICD-10-CM
0PP234Z	Removal of Internal Fixation Device from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
0PP237Z	Removal of Autologous Tissue Substitute from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
OPP23JZ	Removal of Synthetic Substitute from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
OPP23KZ	Removal of Nonautologous Tissue Substitute from 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
0PP244Z	Removal of Internal Fixation Device from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP247Z	Removal of Autologous Tissue Substitute from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP24JZ	Removal of Synthetic Substitute from 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 656 of 702



Dascillic Cl	naracteristics in this Request	Code	Code
Code	Description	Type	Category
OPP24KZ	Removal of Nonautologous Tissue Substitute from 3 or More Ribs, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0PP504Z	Removal of Internal Fixation Device from Right Scapula, Open Approach	PX	ICD-10-CM
0PP507Z	Removal of Autologous Tissue Substitute from Right Scapula, Open Approach	PX	ICD-10-CM
OPP50JZ	Removal of Synthetic Substitute from Right Scapula, Open Approach	PX	ICD-10-CM
OPP50KZ	Removal of Nonautologous Tissue Substitute from Right Scapula, Open Approach	PX	ICD-10-CM
0PP534Z	Removal of Internal Fixation Device from Right Scapula, Percutaneous Approach	PX	ICD-10-CM
0PP537Z	Removal of Autologous Tissue Substitute from Right Scapula, Percutaneous Approach	PX	ICD-10-CM
OPP53JZ	Removal of Synthetic Substitute from Right Scapula, Percutaneous Approach	PX	ICD-10-CM
OPP53KZ	Removal of Nonautologous Tissue Substitute from Right Scapula, Percutaneous Approach	PX	ICD-10-CM
0PP544Z	Removal of Internal Fixation Device from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP547Z	Removal of Autologous Tissue Substitute from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP54JZ	Removal of Synthetic Substitute from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP54KZ	Removal of Nonautologous Tissue Substitute from Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP604Z	Removal of Internal Fixation Device from Left Scapula, Open Approach	PX	ICD-10-CM
0PP607Z	Removal of Autologous Tissue Substitute from Left Scapula, Open Approach	PX	ICD-10-CM
OPP60JZ	Removal of Synthetic Substitute from Left Scapula, Open Approach	PX	ICD-10-CM
OPP60KZ	Removal of Nonautologous Tissue Substitute from Left Scapula, Open Approach	PX	ICD-10-CM
0PP634Z	Removal of Internal Fixation Device from Left Scapula, Percutaneous Approach	PX	ICD-10-CM
0PP637Z	Removal of Autologous Tissue Substitute from Left Scapula, Percutaneous Approach	PX	ICD-10-CM
OPP63JZ	Removal of Synthetic Substitute from Left Scapula, Percutaneous Approach	PX	ICD-10-CM
OPP63KZ	Removal of Nonautologous Tissue Substitute from Left Scapula, Percutaneous Approach	PX	ICD-10-CM
0PP644Z	Removal of Internal Fixation Device from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP647Z	Removal of Autologous Tissue Substitute from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP64JZ	Removal of Synthetic Substitute from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP64KZ	Removal of Nonautologous Tissue Substitute from Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP704Z	Removal of Internal Fixation Device from Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PP707Z	Removal of Autologous Tissue Substitute from Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
OPP70JZ	Removal of Synthetic Substitute from Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
OPP70KZ	Removal of Nonautologous Tissue Substitute from Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PP734Z	Removal of Internal Fixation Device from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
0PP737Z	Removal of Autologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
OPP73JZ	Removal of Synthetic Substitute from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
OPP73KZ	Removal of Nonautologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
0PP744Z	Removal of Internal Fixation Device from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP747Z	Removal of Autologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 657 of 702



Dascille C	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
OPP74JZ	Removal of Synthetic Substitute from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP74KZ	Removal of Nonautologous Tissue Substitute from Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP804Z	Removal of Internal Fixation Device from Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PP807Z	Removal of Autologous Tissue Substitute from Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
OPP80JZ	Removal of Synthetic Substitute from Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
OPP80KZ	Removal of Nonautologous Tissue Substitute from Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PP834Z	Removal of Internal Fixation Device from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
0PP837Z	Removal of Autologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
OPP83JZ	Removal of Synthetic Substitute from Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
OPP83KZ	Removal of Nonautologous Tissue Substitute from Left Glenoid Cavity, Percutaneous	PX	ICD-10-CM
0PP844Z	Removal of Internal Fixation Device from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP847Z	Removal of Autologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP84JZ	Removal of Synthetic Substitute from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP84KZ	Removal of Nonautologous Tissue Substitute from Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP904Z	Removal of Internal Fixation Device from Right Clavicle, Open Approach	PX	ICD-10-CM
0PP907Z	Removal of Autologous Tissue Substitute from Right Clavicle, Open Approach	PX	ICD-10-CM
OPP90JZ	Removal of Synthetic Substitute from Right Clavicle, Open Approach	PX	ICD-10-CM
OPP90KZ	Removal of Nonautologous Tissue Substitute from Right Clavicle, Open Approach	PX	ICD-10-CM
0PP934Z	Removal of Internal Fixation Device from Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
0PP937Z	Removal of Autologous Tissue Substitute from Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPP93JZ	Removal of Synthetic Substitute from Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPP93KZ	Removal of Nonautologous Tissue Substitute from Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
0PP944Z	Removal of Internal Fixation Device from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP947Z	Removal of Autologous Tissue Substitute from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPP94JZ	Removal of Synthetic Substitute from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PP94KZ	Removal of Nonautologous Tissue Substitute from Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPB04Z	Removal of Internal Fixation Device from Left Clavicle, Open Approach	PX	ICD-10-CM
OPPB07Z	Removal of Autologous Tissue Substitute from Left Clavicle, Open Approach	PX	ICD-10-CM
OPPBOJZ	Removal of Synthetic Substitute from Left Clavicle, Open Approach	PX	ICD-10-CM
OPPBOKZ	Removal of Nonautologous Tissue Substitute from Left Clavicle, Open Approach	PX	ICD-10-CM
OPPB34Z	Removal of Internal Fixation Device from Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPPB37Z	Removal of Autologous Tissue Substitute from Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPPB3JZ	Removal of Synthetic Substitute from Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPPB3KZ	Removal of Nonautologous Tissue Substitute from Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPPB44Z	Removal of Internal Fixation Device from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 658 of 702



Daseillie Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
OPPB47Z	Removal of Autologous Tissue Substitute from Left Clavicle, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
OPPB4JZ	Removal of Synthetic Substitute from Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPB4KZ	Removal of Nonautologous Tissue Substitute from Left Clavicle, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
OPPH04Z	Removal of Internal Fixation Device from Right Radius, Open Approach	PX	ICD-10-CM
OPPH05Z	Removal of External Fixation Device from Right Radius, Open Approach	PX	ICD-10-CM
OPPH07Z	Removal of Autologous Tissue Substitute from Right Radius, Open Approach	PX	ICD-10-CM
0PPH0JZ	Removal of Synthetic Substitute from Right Radius, Open Approach	PX	ICD-10-CM
0PPH0KZ	Removal of Nonautologous Tissue Substitute from Right Radius, Open Approach	PX	ICD-10-CM
OPPH34Z	Removal of Internal Fixation Device from Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPPH35Z	Removal of External Fixation Device from Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPPH37Z	Removal of Autologous Tissue Substitute from Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPPH3JZ	Removal of Synthetic Substitute from Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPPH3KZ	Removal of Nonautologous Tissue Substitute from Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPPH44Z	Removal of Internal Fixation Device from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPH45Z	Removal of External Fixation Device from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPH47Z	Removal of Autologous Tissue Substitute from Right Radius, Percutaneous Endoscopic	PX	ICD-10-CM
OPPH4JZ	Approach Removal of Synthetic Substitute from Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPH4KZ	Removal of Nonautologous Tissue Substitute from Right Radius, Percutaneous Endoscopic	PX	ICD-10-CM
OFFITTANZ	Approach	17	ICD 10 CIVI
OPPJ04Z	Removal of Internal Fixation Device from Left Radius, Open Approach	PX	ICD-10-CM
OPPJ05Z	Removal of External Fixation Device from Left Radius, Open Approach	PX	ICD-10-CM
OPPJ07Z	Removal of Autologous Tissue Substitute from Left Radius, Open Approach	PX	ICD-10-CM
OPPJOJZ	Removal of Synthetic Substitute from Left Radius, Open Approach	PX	ICD-10-CM
OPPJOKZ	Removal of Nonautologous Tissue Substitute from Left Radius, Open Approach	PX	ICD-10-CM
OPPJ34Z	Removal of Internal Fixation Device from Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPPJ35Z	Removal of External Fixation Device from Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPPJ37Z	Removal of Autologous Tissue Substitute from Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPPJ3JZ	Removal of Synthetic Substitute from Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPPJ3KZ	Removal of Nonautologous Tissue Substitute from Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPPJ44Z	Removal of Internal Fixation Device from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPJ45Z	Removal of External Fixation Device from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPJ47Z	Removal of Autologous Tissue Substitute from Left Radius, Percutaneous Endoscopic	PX	ICD-10-CM
OPPJ4JZ	Removal of Synthetic Substitute from Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPJ4KZ	Removal of Nonautologous Tissue Substitute from Left Radius, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
OPPK04Z	Removal of Internal Fixation Device from Right Ulna, Open Approach	PX	ICD-10-CM
OPPK05Z	Removal of External Fixation Device from Right Ulna, Open Approach	PX	ICD-10-CM
OPPK07Z	Removal of Autologous Tissue Substitute from Right Ulna, Open Approach	PX	ICD-10-CM
OPPKOJZ	Removal of Synthetic Substitute from Right Ulna, Open Approach	PX	ICD-10-CM
OPPKOKZ	Removal of Nonautologous Tissue Substitute from Right Ulna, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 659 of 702



Appendix H. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Baseline Characteristics in this Request

baseline Cr	naracteristics in this Request	Code	Code
Code	Description	Type	Category
OPPK34Z	Removal of Internal Fixation Device from Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPK35Z	Removal of External Fixation Device from Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPK37Z	Removal of Autologous Tissue Substitute from Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPK3JZ	Removal of Synthetic Substitute from Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPK3KZ	Removal of Nonautologous Tissue Substitute from Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPK44Z	Removal of Internal Fixation Device from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPK45Z	Removal of External Fixation Device from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPK47Z	Removal of Autologous Tissue Substitute from Right Ulna, Percutaneous Endoscopic	PX	ICD-10-CM
OPPK4JZ	Removal of Synthetic Substitute from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPK4KZ	Removal of Nonautologous Tissue Substitute from Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPL04Z	Removal of Internal Fixation Device from Left Ulna, Open Approach	PX	ICD-10-CM
OPPL05Z	Removal of External Fixation Device from Left Ulna, Open Approach	PX	ICD-10-CM
OPPL07Z	Removal of Autologous Tissue Substitute from Left Ulna, Open Approach	PX	ICD-10-CM
OPPLOJZ	Removal of Synthetic Substitute from Left Ulna, Open Approach	PX	ICD-10-CM
OPPLOKZ	Removal of Nonautologous Tissue Substitute from Left Ulna, Open Approach	PX	ICD-10-CM
OPPL34Z	Removal of Internal Fixation Device from Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPL35Z	Removal of External Fixation Device from Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPL37Z	Removal of Autologous Tissue Substitute from Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPL3JZ	Removal of Synthetic Substitute from Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPL3KZ	Removal of Nonautologous Tissue Substitute from Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPPL44Z	Removal of Internal Fixation Device from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPL45Z	Removal of External Fixation Device from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPL47Z	Removal of Autologous Tissue Substitute from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPL4JZ	Removal of Synthetic Substitute from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPPL4KZ	Removal of Nonautologous Tissue Substitute from Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ00ZZ	Repair Sternum, Open Approach	PX	ICD-10-CM
0PQ03ZZ	Repair Sternum, Percutaneous Approach	PX	ICD-10-CM
0PQ04ZZ	Repair Sternum, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ0XZZ	Repair Sternum, External Approach	PX	ICD-10-CM
OPQ10ZZ	Repair 1 to 2 Ribs, Open Approach	PX	ICD-10-CM
OPQ13ZZ	Repair 1 to 2 Ribs, Percutaneous Approach	PX	ICD-10-CM
OPQ14ZZ	Repair 1 to 2 Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ1XZZ	Repair 1 to 2 Ribs, External Approach	PX	ICD-10-CM
0PQ20ZZ	Repair 3 or More Ribs, Open Approach	PX	ICD-10-CM
0PQ23ZZ	Repair 3 or More Ribs, Percutaneous Approach	PX	ICD-10-CM
0PQ24ZZ	Repair 3 or More Ribs, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ2XZZ	Repair 3 or More Ribs, External Approach	PX	ICD-10-CM
0PQ50ZZ	Repair Right Scapula, Open Approach	PX	ICD-10-CM
0PQ53ZZ	Repair Right Scapula, Percutaneous Approach	PX	ICD-10-CM
0PQ54ZZ	Repair Right Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ5XZZ	Repair Right Scapula, External Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 660 of 702



Daseinie Ci	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
0PQ60ZZ	Repair Left Scapula, Open Approach	PX	ICD-10-CM
0PQ63ZZ	Repair Left Scapula, Percutaneous Approach	PX	ICD-10-CM
0PQ64ZZ	Repair Left Scapula, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ6XZZ	Repair Left Scapula, External Approach	PX	ICD-10-CM
0PQ70ZZ	Repair Right Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PQ73ZZ	Repair Right Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
0PQ74ZZ	Repair Right Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ7XZZ	Repair Right Glenoid Cavity, External Approach	PX	ICD-10-CM
0PQ80ZZ	Repair Left Glenoid Cavity, Open Approach	PX	ICD-10-CM
0PQ83ZZ	Repair Left Glenoid Cavity, Percutaneous Approach	PX	ICD-10-CM
0PQ84ZZ	Repair Left Glenoid Cavity, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ8XZZ	Repair Left Glenoid Cavity, External Approach	PX	ICD-10-CM
OPQ90ZZ	Repair Right Clavicle, Open Approach	PX	ICD-10-CM
OPQ93ZZ	Repair Right Clavicle, Percutaneous Approach	PX	ICD-10-CM
0PQ94ZZ	Repair Right Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQ9XZZ	Repair Right Clavicle, External Approach	PX	ICD-10-CM
0PQB0ZZ	Repair Left Clavicle, Open Approach	PX	ICD-10-CM
OPQB3ZZ	Repair Left Clavicle, Percutaneous Approach	PX	ICD-10-CM
OPQB4ZZ	Repair Left Clavicle, Percutaneous Endoscopic Approach	PX	ICD-10-CM
<b>OPQBXZZ</b>	Repair Left Clavicle, External Approach	PX	ICD-10-CM
0PQH0ZZ	Repair Right Radius, Open Approach	PX	ICD-10-CM
0PQH3ZZ	Repair Right Radius, Percutaneous Approach	PX	ICD-10-CM
0PQH4ZZ	Repair Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQHXZZ	Repair Right Radius, External Approach	PX	ICD-10-CM
0PQJ0ZZ	Repair Left Radius, Open Approach	PX	ICD-10-CM
0PQJ3ZZ	Repair Left Radius, Percutaneous Approach	PX	ICD-10-CM
0PQJ4ZZ	Repair Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQJXZZ	Repair Left Radius, External Approach	PX	ICD-10-CM
0PQK0ZZ	Repair Right Ulna, Open Approach	PX	ICD-10-CM
OPQK3ZZ	Repair Right Ulna, Percutaneous Approach	PX	ICD-10-CM
0PQK4ZZ	Repair Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQKXZZ	Repair Right Ulna, External Approach	PX	ICD-10-CM
0PQL0ZZ	Repair Left Ulna, Open Approach	PX	ICD-10-CM
0PQL3ZZ	Repair Left Ulna, Percutaneous Approach	PX	ICD-10-CM
0PQL4ZZ	Repair Left Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PQLXZZ	Repair Left Ulna, External Approach	PX	ICD-10-CM
OPR00JZ	Replacement of Sternum with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR03JZ	Replacement of Sternum with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPRO4JZ	Replacement of Sternum with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR10JZ	Replacement of 1 to 2 Ribs with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR13JZ	Replacement of 1 to 2 Ribs with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR14JZ	Replacement of 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR20JZ	Replacement of 3 or More Ribs with Synthetic Substitute, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 661 of 702



Appendix H. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Baseline Characteristics in this Request

Dasenne Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
OPR23JZ	Replacement of 3 or More Ribs with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR24JZ	Replacement of 3 or More Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR50JZ	Replacement of Right Scapula with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR53JZ	Replacement of Right Scapula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR54JZ	Replacement of Right Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR60JZ	Replacement of Left Scapula with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR63JZ	Replacement of Left Scapula with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR64JZ	Replacement of Left Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR70JZ	Replacement of Right Glenoid Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR73JZ	Replacement of Right Glenoid Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR74JZ	Replacement of Right Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR80JZ	Replacement of Left Glenoid Cavity with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR83JZ	Replacement of Left Glenoid Cavity with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR84JZ	Replacement of Left Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPR90JZ	Replacement of Right Clavicle with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPR93JZ	Replacement of Right Clavicle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPR94JZ	Replacement of Right Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPRBOJZ	Replacement of Left Clavicle with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPRB3JZ	Replacement of Left Clavicle with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPRB4JZ	Replacement of Left Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPRH0JZ	Replacement of Right Radius with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPRH3JZ	Replacement of Right Radius with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPRH4JZ	Replacement of Right Radius with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPRJOJZ	Replacement of Left Radius with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPRJ3JZ	Replacement of Left Radius with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPRJ4JZ	Replacement of Left Radius with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPRKOJZ	Replacement of Right Ulna with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPRK3JZ	Replacement of Right Ulna with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPRK4JZ	Replacement of Right Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPRLOJZ	Replacement of Left Ulna with Synthetic Substitute, Open Approach	PX	ICD-10-CM
OPRL3JZ	Replacement of Left Ulna with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OPRL4JZ	Replacement of Left Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSH04Z	Reposition Right Radius with Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSH05Z	Reposition Right Radius with External Fixation Device, Open Approach	PX	ICD-10-CM
OPSH06Z	Reposition Right Radius with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSH0BZ	Reposition Right Radius with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
OPSH0CZ	Reposition Right Radius with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0PSH0DZ	Reposition Right Radius with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
OPSH0ZZ	Reposition Right Radius, Open Approach	PX	ICD-10-CM
OPSH34Z	Reposition Right Radius with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSH35Z	Reposition Right Radius with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 662 of 702



Appendix H. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Baseline Characteristics in this Request

	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
OPSH36Z	Reposition Right Radius with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSH3BZ	Reposition Right Radius with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSH3CZ	Reposition Right Radius with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSH3DZ	Reposition Right Radius with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSH3ZZ	Reposition Right Radius, Percutaneous Approach	PX	ICD-10-CM
OPSH44Z	Reposition Right Radius with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSH45Z	Reposition Right Radius with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSH46Z	Reposition Right Radius with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PSH4BZ	Reposition Right Radius with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSH4CZ	Reposition Right Radius with Ring External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
0PSH4DZ	Reposition Right Radius with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSH4ZZ	Reposition Right Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PSHXZZ	Reposition Right Radius, External Approach	PX	ICD-10-CM
OPSJ04Z	Reposition Left Radius with Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSJ05Z	Reposition Left Radius with External Fixation Device, Open Approach	PX	ICD-10-CM
OPSJ06Z	Reposition Left Radius with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSJOBZ	Reposition Left Radius with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
OPSJ0CZ	Reposition Left Radius with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0PSJ0DZ	Reposition Left Radius with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
OPSJ0ZZ	Reposition Left Radius, Open Approach	PX	ICD-10-CM
OPSJ34Z	Reposition Left Radius with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSJ35Z	Reposition Left Radius with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSJ36Z	Reposition Left Radius with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSJ3BZ	Reposition Left Radius with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSJ3CZ	Reposition Left Radius with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSJ3DZ	Reposition Left Radius with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSJ3ZZ	Reposition Left Radius, Percutaneous Approach	PX	ICD-10-CM
OPSJ44Z	Reposition Left Radius with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSJ45Z	Reposition Left Radius with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PSJ46Z	Reposition Left Radius with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSJ4BZ	Reposition Left Radius with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSJ4CZ	Reposition Left Radius with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSJ4DZ	Reposition Left Radius with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSJ4ZZ	Reposition Left Radius, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSJXZZ	Reposition Left Radius, External Approach	PX	ICD-10-CM
OPSK04Z	Reposition Right Ulna with Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSK05Z	Reposition Right Ulna with External Fixation Device, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 663 of 702



Daseillie Ci	laracteristics in this Request	Code	Code
Code	Description	Type	Category
OPSK06Z	Reposition Right Ulna with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSKOBZ	Reposition Right Ulna with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0PSK0CZ	Reposition Right Ulna with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
OPSKODZ	Reposition Right Ulna with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
OPSK0ZZ	Reposition Right Ulna, Open Approach	PX	ICD-10-CM
OPSK34Z	Reposition Right Ulna with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSK35Z	Reposition Right Ulna with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSK36Z	Reposition Right Ulna with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSK3BZ	Reposition Right Ulna with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSK3CZ	Reposition Right Ulna with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSK3DZ	Reposition Right Ulna with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSK3ZZ	Reposition Right Ulna, Percutaneous Approach	PX	ICD-10-CM
OPSK44Z	Reposition Right Ulna with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSK45Z	Reposition Right Ulna with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSK46Z	Reposition Right Ulna with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSK4BZ	Reposition Right Ulna with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSK4CZ	Reposition Right Ulna with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSK4DZ	Reposition Right Ulna with Hybrid External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
OPSK4ZZ	Reposition Right Ulna, Percutaneous Endoscopic Approach	PX	ICD-10-CM
<b>OPSKXZZ</b>	Reposition Right Ulna, External Approach	PX	ICD-10-CM
OPSL04Z	Reposition Left Ulna with Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSL05Z	Reposition Left Ulna with External Fixation Device, Open Approach	PX	ICD-10-CM
OPSL06Z	Reposition Left Ulna with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
OPSLOBZ	Reposition Left Ulna with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
OPSL0CZ	Reposition Left Ulna with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
OPSLODZ	Reposition Left Ulna with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
OPSL0ZZ	Reposition Left Ulna, Open Approach	PX	ICD-10-CM
OPSL34Z	Reposition Left Ulna with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSL35Z	Reposition Left Ulna with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSL36Z	Reposition Left Ulna with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSL3BZ	Reposition Left Ulna with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSL3CZ	Reposition Left Ulna with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSL3DZ	Reposition Left Ulna with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
OPSL3ZZ	Reposition Left Ulna, Percutaneous Approach	PX	ICD-10-CM
OPSL44Z	Reposition Left Ulna with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSL45Z	Reposition Left Ulna with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0PSL46Z	Reposition Left Ulna with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSL4BZ	Reposition Left Ulna with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OPSL4CZ	Reposition Left Ulna with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 664 of 702



Code Code Description  Reposition Left Ulna with Hybrid External Fixation Device, Percutaneous Endoscopic PX ICD-10-CM OPSL4ZZ Reposition Left Ulna, Percutaneous Endoscopic Approach PX ICD-10-CM OPSLXZZ Reposition Left Ulna, External Approach OPU00JZ Supplement Sternum with Synthetic Substitute, Open Approach PX ICD-10-CM OPU03JZ Supplement Sternum with Synthetic Substitute, Percutaneous Approach OPU04JZ Supplement Sternum with Synthetic Substitute, Percutaneous Endoscopic Approach OPU10JZ Supplement 1 to 2 Ribs with Synthetic Substitute, Open Approach OPU10JZ Supplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Approach OPU13JZ Supplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Approach OPU14JZ Supplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach OPU14JZ Supplement 3 or More Ribs with Synthetic Substitute, Open Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Open Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Open Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Open Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach OPU20JZ Supplement 3 or
OPSL4DZReposition Left Ulna with Hybrid External Fixation Device, Percutaneous EndoscopicPXICD-10-CMOPSL4ZZReposition Left Ulna, Percutaneous Endoscopic ApproachPXICD-10-CMOPSLXZZReposition Left Ulna, External ApproachPXICD-10-CMOPU00JZSupplement Sternum with Synthetic Substitute, Open ApproachPXICD-10-CMOPU03JZSupplement Sternum with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU04JZSupplement Sternum with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU10JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPSLXZZReposition Left Ulna, External ApproachPXICD-10-CMOPU00JZSupplement Sternum with Synthetic Substitute, Open ApproachPXICD-10-CMOPU03JZSupplement Sternum with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU04JZSupplement Sternum with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU10JZSupplement 1 to 2 Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU13JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU00JZSupplement Sternum with Synthetic Substitute, Open ApproachPXICD-10-CMOPU03JZSupplement Sternum with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU04JZSupplement Sternum with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU10JZSupplement 1 to 2 Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU13JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU03JZSupplement Sternum with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU04JZSupplement Sternum with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU10JZSupplement 1 to 2 Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU13JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU04JZSupplement Sternum with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU10JZSupplement 1 to 2 Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU13JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU10JZSupplement 1 to 2 Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU13JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU13JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CMOPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU14JZSupplement 1 to 2 Ribs with Synthetic Substitute, Percutaneous Endoscopic ApproachPXICD-10-CMOPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU20JZSupplement 3 or More Ribs with Synthetic Substitute, Open ApproachPXICD-10-CMOPU23JZSupplement 3 or More Ribs with Synthetic Substitute, Percutaneous ApproachPXICD-10-CM
OPU23JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
ODI 2417 Complement 2 on Many Dibe with Combletic Collections Department 2 in 1 A 1 DV 107 10 CC
OPU24JZ Supplement 3 or More Ribs with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPU50JZ Supplement Right Scapula with Synthetic Substitute, Open Approach PX ICD-10-CM
OPU53JZ Supplement Right Scapula with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPU54JZ Supplement Right Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPU60JZ Supplement Left Scapula with Synthetic Substitute, Open Approach PX ICD-10-CM
OPU63JZ Supplement Left Scapula with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPU64JZ Supplement Left Scapula with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPU70JZ Supplement Right Glenoid Cavity with Synthetic Substitute, Open Approach PX ICD-10-CM
OPU73JZ Supplement Right Glenoid Cavity with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPU74JZ Supplement Right Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic PX ICD-10-CM
Approach
OPU80JZ Supplement Left Glenoid Cavity with Synthetic Substitute, Open Approach PX ICD-10-CM
OPU83JZ Supplement Left Glenoid Cavity with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPU84JZ Supplement Left Glenoid Cavity with Synthetic Substitute, Percutaneous Endoscopic PX ICD-10-CM
OPU90JZ Supplement Right Clavicle with Synthetic Substitute, Open Approach PX ICD-10-CM
OPU93JZ Supplement Right Clavicle with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPU94JZ Supplement Right Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPUBOJZ Supplement Left Clavicle with Synthetic Substitute, Open Approach PX ICD-10-CM
OPUB3JZ Supplement Left Clavicle with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPUB4JZ Supplement Left Clavicle with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPUHOJZ Supplement Right Radius with Synthetic Substitute, Open Approach PX ICD-10-CM
OPUH3JZ Supplement Right Radius with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPUH4JZ Supplement Right Radius with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPUJOJZ Supplement Left Radius with Synthetic Substitute, Open Approach PX ICD-10-CM
OPUJ3JZ Supplement Left Radius with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPUJ4JZ Supplement Left Radius with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPUKOJZ Supplement Right Ulna with Synthetic Substitute, Open Approach PX ICD-10-CM
OPUK3JZ Supplement Right Ulna with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPUK4JZ Supplement Right Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM
OPULOJZ Supplement Left Ulna with Synthetic Substitute, Open Approach PX ICD-10-CM
OPUL3JZ Supplement Left Ulna with Synthetic Substitute, Percutaneous Approach PX ICD-10-CM
OPUL4JZ Supplement Left Ulna with Synthetic Substitute, Percutaneous Endoscopic Approach PX ICD-10-CM

cder\_mpl2p\_wp047 Page 665 of 702



Baseline Cl	naracteristics in this Request	6 :	0.1
Code	Description	Code	Code
Code	Description  Excision of Right Upper Femus Open Approach	Type	Category
OQB60ZZ OQB70ZZ	Excision of Right Upper Femur, Open Approach Excision of Left Upper Femur, Open Approach	PX PX	ICD-10-CM ICD-10-CM
0QB70ZZ 0QB80ZZ			
	Excision of Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QB90ZZ	Excision of Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QBB0ZZ	Excision of Right Lower Femur, Open Approach	PX	ICD-10-CM
0QBC0ZZ	Excision of Left Lower Femur, Open Approach	PX	ICD-10-CM
0QH604Z	Insertion of Internal Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-CM
0QH605Z	Insertion of External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-CM
0QH606Z	Insertion of Intramedullary Internal Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-CM
0QH60BZ	Insertion of Monoplanar External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-CM
0QH60CZ	Insertion of Ring External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-CM
0QH60DZ	Insertion of Hybrid External Fixation Device into Right Upper Femur, Open Approach	PX	ICD-10-CM
0QH634Z	Insertion of Internal Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QH635Z	Insertion of External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QH636Z	Insertion of Intramedullary Internal Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QH63BZ	Insertion of Monoplanar External Fixation Device into Right Upper Femur, Percutaneous	PX	ICD-10-CM
	Approach		
0QH63CZ	Insertion of Ring External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QH63DZ	Insertion of Hybrid External Fixation Device into Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QH644Z	Insertion of Internal Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH645Z	Insertion of External Fixation Device into Right Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
0QH646Z	Approach Insertion of Intramedullary Internal Fixation Device into Right Upper Femur, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QH64BZ	Insertion of Monoplanar External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH64CZ	Insertion of Ring External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH64DZ	Insertion of Hybrid External Fixation Device into Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH704Z	Insertion of Internal Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-CM
0QH705Z	Insertion of External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-CM
0QH706Z	Insertion of Intramedullary Internal Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-CM
0QH70BZ	Insertion of Monoplanar External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-CM
OQH70CZ	Insertion of Ring External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-CM
0QH70DZ	Insertion of Hybrid External Fixation Device into Left Upper Femur, Open Approach	PX	ICD-10-CM
0QH70DZ 0QH734Z	Insertion of Internal Fixation Device into Left Opper Femur, Open Approach	PX	ICD-10-CM
	Insertion of Internal Fixation Device into Left Opper Femur, Percutaneous Approach		
0QH735Z	··	PX	ICD-10-CM
0QH736Z	Insertion of Intramedullary Internal Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 666 of 702



Daseille Ci	aseline Characteristics in this Request				
Code	Description	Code Type	Code Category		
0QH73BZ	Insertion of Monoplanar External Fixation Device into Left Upper Femur, Percutaneous	PX	ICD-10-CM		
00022	Approach		.02 20 0		
0QH73CZ	Insertion of Ring External Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM		
0QH73DZ	Insertion of Hybrid External Fixation Device into Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM		
0QH744Z	Insertion of Internal Fixation Device into Left Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM		
0QH745Z	Insertion of External Fixation Device into Left Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM		
	Approach				
0QH746Z	Insertion of Intramedullary Internal Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM		
0QH74BZ	Insertion of Monoplanar External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM		
0QH74CZ	Insertion of Ring External Fixation Device into Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM		
0QH74DZ	Insertion of Hybrid External Fixation Device into Left Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM		
0QH804Z	Approach Insertion of Internal Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH805Z	Insertion of External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH806Z	Insertion of Intramedullary Internal Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH80BZ	Insertion of Monoplanar External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH80CZ	Insertion of Ring External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH80DZ	Insertion of Hybrid External Fixation Device into Right Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH834Z	Insertion of Internal Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM		
0QH835Z	Insertion of External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM		
0QH836Z	Insertion of Intramedullary Internal Fixation Device into Right Femoral Shaft, Percutaneous	PX	ICD-10-CM		
0QH83BZ	Approach Insertion of Monoplanar External Fixation Device into Right Femoral Shaft, Percutaneous	PX	ICD-10-CM		
OQIIOSBE	Approach	1 //	ICD-10-CIVI		
0QH83CZ	Insertion of Ring External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM		
0QH83DZ	Insertion of Hybrid External Fixation Device into Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM		
0QH844Z	Insertion of Internal Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM		
0QH845Z	Insertion of External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM		
0QH846Z	Insertion of Intramedullary Internal Fixation Device into Right Femoral Shaft, Percutaneous	PX	ICD-10-CM		
0QH84BZ	Endoscopic Approach Insertion of Monoplanar External Fixation Device into Right Femoral Shaft, Percutaneous	PX	ICD-10-CM		
0QH84CZ	Endoscopic Approach Insertion of Ring External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic	PX	ICD-10-CM		
	Approach				
0QH84DZ	Insertion of Hybrid External Fixation Device into Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM		
0QH904Z	Insertion of Internal Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-CM		
0QH905Z	Insertion of External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-CM		

cder\_mpl2p\_wp047 Page 667 of 702



		Code	Code
Code	Description	Type	Category
0QH906Z	Insertion of Intramedullary Internal Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QH90BZ	Insertion of Monoplanar External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QH90CZ	Insertion of Ring External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QH90DZ	Insertion of Hybrid External Fixation Device into Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QH934Z	Insertion of Internal Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QH935Z	Insertion of External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QH936Z	Insertion of Intramedullary Internal Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QH93BZ	Insertion of Monoplanar External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QH93CZ	Insertion of Ring External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QH93DZ	Insertion of Hybrid External Fixation Device into Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QH944Z	Insertion of Internal Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH945Z	Insertion of External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH946Z	Insertion of Intramedullary Internal Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH94BZ	Insertion of Monoplanar External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH94CZ	Insertion of Ring External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QH94DZ	Insertion of Hybrid External Fixation Device into Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QHB04Z	Insertion of Internal Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-CM
0QHB05Z	Insertion of External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-CM
0QHB06Z	Insertion of Intramedullary Internal Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-CM
0QHB0BZ	Insertion of Monoplanar External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-CM
0QHB0CZ	Insertion of Ring External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-CM
0QHB0DZ	Insertion of Hybrid External Fixation Device into Right Lower Femur, Open Approach	PX	ICD-10-CM
0QHB34Z	Insertion of Internal Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHB35Z	Insertion of External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHB36Z	Insertion of Intramedullary Internal Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHB3BZ	Insertion of Monoplanar External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHB3CZ	Insertion of Ring External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHB3DZ	Insertion of Hybrid External Fixation Device into Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHB44Z	Insertion of Internal Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QHB45Z	Insertion of External Fixation Device into Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 668 of 702



Cada	Description	Code	Code
Code	Description	Туре	Category
0QHB46Z	Insertion of Intramedullary Internal Fixation Device into Right Lower Femur, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QHB4BZ	Insertion of Monoplanar External Fixation Device into Right Lower Femur, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QHB4CZ	Insertion of Ring External Fixation Device into Right Lower Femur, Percutaneous Endoscopic	PX	ICD-10-CM
00110407	Approach	<b>D</b> V	100 40 614
0QHB4DZ	Insertion of Hybrid External Fixation Device into Right Lower Femur, Percutaneous	PX	ICD-10-CM
00116047	Endoscopic Approach	DV	ICD 40 CN4
0QHC04Z	Insertion of Internal Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-CM
0QHC05Z	Insertion of External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-CM
0QHC06Z	Insertion of Intramedullary Internal Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-CM
0QHC0BZ	Insertion of Monoplanar External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-CM
0QHC0CZ	Insertion of Ring External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-CM
0QHC0DZ	Insertion of Hybrid External Fixation Device into Left Lower Femur, Open Approach	PX	ICD-10-CM
0QHC34Z	Insertion of Internal Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHC35Z	Insertion of External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QHC36Z	Insertion of Intramedullary Internal Fixation Device into Left Lower Femur, Percutaneous	PX	ICD-10-CM
00110207	Approach	DV	ICD 10 CM
0QHC3BZ	Insertion of Monoplanar External Fixation Device into Left Lower Femur, Percutaneous	PX	ICD-10-CM
0QHC3CZ	Approach Insertion of Ring External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
OQHC3DZ	Insertion of Hybrid External Fixation Device into Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
OQHC44Z	Insertion of Internal Fixation Device into Left Lower Femur, Percutaneous Endoscopic	PX	ICD-10-CM
0QHC45Z	Insertion of External Fixation Device into Left Lower Femur, Percutaneous Endoscopic	PX	ICD-10-CM
00110432	Approach	17	TCD 10 CIVI
0QHC46Z	Insertion of Intramedullary Internal Fixation Device into Left Lower Femur, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QHC4BZ	Insertion of Monoplanar External Fixation Device into Left Lower Femur, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QHC4CZ	Insertion of Ring External Fixation Device into Left Lower Femur, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QHC4DZ	Insertion of Hybrid External Fixation Device into Left Lower Femur, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QN60ZZ	Release Right Upper Femur, Open Approach	PX	ICD-10-CM
0QN63ZZ	Release Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QN64ZZ	Release Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QN70ZZ	Release Left Upper Femur, Open Approach	PX	ICD-10-CM
0QN73ZZ	Release Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QN74ZZ	Release Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QN80ZZ	Release Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QN83ZZ	Release Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QN84ZZ	Release Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QN90ZZ	Release Left Femoral Shaft, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 669 of 702



Code         Description         Type         Category           0QN932Z         Release Left Femoral Shaft, Percutaneous Approach         PX         LCD-10-CM           0QN94ZZ         Release Left Femoral Shaft, Percutaneous Endoscopic Approach         PX         LCD-10-CM           0QN80ZZ         Release Right Lower Femur, Open Approach         PX         LCD-10-CM           0QN83ZZ         Release Right Lower Femur, Percutaneous Endoscopic Approach         PX         LCD-10-CM           0QN02ZZ         Release Right Lower Femur, Percutaneous Endoscopic Approach         PX         LCD-10-CM           0QN02ZZ         Release Left Lower Femur, Percutaneous Endoscopic Approach         PX         LCD-10-CM           0QN62ZZ         Release Left Lower Femur, Percutaneous Endoscopic Approach         PX         LCD-10-CM           0QN62ZZ         Release Left Lower Femur, Percutaneous Endoscopic Approach         PX         LCD-10-CM           0QP60ZZ         Removal of Internal Fixation Device from Right Upper Femur, Open Approach         PX         LCD-10-CM           0QP60ZZ         Removal of Stermal Fixation Device from Right Upper Femur, Open Approach         PX         LCD-10-CM           0QP60ZZ         Removal of Internal Fixation Device from Right Upper Femur, Percutaneous Approach         PX         LCD-10-CM           0QP63ZZ         Removal of Non	Dascillie Ci	laracteristics in this Request	Code	Code
OQN942ZRelease Left Femoral Shaft, Percutaneous Endoscopic ApproachPXICD-10-CMOQN83ZZRelease Right Lower Femur, Open ApproachPXICD-10-CMOQN83ZZRelease Right Lower Femur, Percutaneous ApproachPXICD-10-CMOQNCAZZRelease Right Lower Femur, Open ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Open ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Percutaneous ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP604ZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP605ZRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP604ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP604ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Steternal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP635ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous Endoscopic	Code	Description	Туре	
OQN80ZZRelease Right Lower Femur, Open ApproachPXICD-10-CMOQN84ZZRelease Right Lower Femur, Percutaneous ApproachPXICD-10-CMOQN84ZZRelease Right Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Open ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQNCAZZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP604ZRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP605ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP604ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP634ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP634ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP644ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Per	0QN93ZZ	Release Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
OQNB32Z Release Right Lower Femur, Percutaneous Approach PX ICD-10-CM OQNB4ZZ Release Right Lower Femur, Percutaneous Endoscopic Approach PX ICD-10-CM OQNC02Z Release Left Lower Femur, Percutaneous Endoscopic Approach PX ICD-10-CM OQNC3ZZ Release Left Lower Femur, Percutaneous Endoscopic Approach PX ICD-10-CM OQNC3ZZ Release Left Lower Femur, Percutaneous Endoscopic Approach PX ICD-10-CM OQNC64ZZ Removal of Internal Fixation Device from Right Upper Femur, Open Approach PX ICD-10-CM OQP604Z Removal of External Fixation Device from Right Upper Femur, Open Approach PX ICD-10-CM OQP605Z Removal of Autologous Tissue Substitute from Right Upper Femur, Open Approach PX ICD-10-CM OQP601Z Removal of Nonautologous Tissue Substitute from Right Upper Femur, Open Approach PX ICD-10-CM OQP601Z Removal of Nonautologous Tissue Substitute from Right Upper Femur, Open Approach PX ICD-10-CM OQP63ZZ Removal of Internal Fixation Device from Right Upper Femur, Percutaneous Approach PX ICD-10-CM OQP63ZZ Removal of Strenal Fixation Device from Right Upper Femur, Percutaneous Approach PX ICD-10-CM OQP63ZZ Removal of Strenal Fixation Device from Right Upper Femur, Percutaneous Approach PX ICD-10-CM OQP63ZZ Removal of Stynthetic Substitute from Right Upper Femur, Percutaneous Approach PX ICD-10-CM OQP63ZZ Removal of Stynthetic Substitute from Right Upper Femur, Percutaneous Approach PX ICD-10-CM OQP63ZZ Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach PX ICD-10-CM PX ICD-10-C	0QN94ZZ	Release Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OQNB4ZZRelease Right Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQNC0ZZRelease Left Lower Femur, Open ApproachPXICD-10-CMOQNC4ZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQNC4ZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP60ZZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZZRemoval of Autologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZZRemoval of Monautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP63ZZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP63ZZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZZ<	0QNB0ZZ	Release Right Lower Femur, Open Approach	PX	ICD-10-CM
OQNCOZZZRelease Left Lower Femur, Open ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Percutaneous ApproachPXICD-10-CMOQNCAZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP604ZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP605ZRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP607ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP607ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP607ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP637ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP637ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP637ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP637ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CMOQP642ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP642ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP642ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP642Z	0QNB3ZZ	Release Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
OQNC3ZZZRelease Left Lower Femur, Percutaneous ApproachPXICD-10-CMOQNC4ZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP60ZFRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZFRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZFRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZFRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP60ZFRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZFRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZFRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZFRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZFRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP64ZFRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZFRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZFRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZFRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous EndoscopicPX	0QNB4ZZ	Release Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OQNC4ZZRelease Left Lower Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP604ZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP605ZRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP607ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP608ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP63ZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CMOQP63ZZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63ZZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP64ZZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64ZZRemoval of Nonautologous Tissue Sub	0QNC0ZZ	Release Left Lower Femur, Open Approach	PX	ICD-10-CM
0QP604ZRemoval of Internal Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CM0QP605ZRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CM0QP607ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP601ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP604ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP637ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP644ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP645ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP645ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP644ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP644ZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP644ZRemoval of Synt	0QNC3ZZ	Release Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QP605ZRemoval of External Fixation Device from Right Upper Femur, Open ApproachPXICD-10-CM0QP601ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP601ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP601ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP633ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP631ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP631ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP642ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP644ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP64ZRemoval of Nonautologous Tissue Substit	0QNC4ZZ	Release Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
OQP607ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP60IZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP60IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP63IZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63IZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63IZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63IZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP64E2Removal of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64IZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64IZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64IZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP70IZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP70IZRemoval o	0QP604Z	Removal of Internal Fixation Device from Right Upper Femur, Open Approach	PX	ICD-10-CM
0QP60JZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP60KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP637ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP631ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP644ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP645ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP641ZRemoval of Synthetic Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP641ZRemoval of Internal Fixation Device from Left Upper Femur, PercutaneousPXICD-10-CM0QP641ZRemoval of Synthetic Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP764ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP704ZRemoval of Autologous Tissue Substit	0QP605Z	Removal of External Fixation Device from Right Upper Femur, Open Approach	PX	ICD-10-CM
0QP60KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP634ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP644ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP645ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP648ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP641ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, PercutaneousPXICD-10-CM0QP704ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP704ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP704Z <td< td=""><td>0QP607Z</td><td>Removal of Autologous Tissue Substitute from Right Upper Femur, Open Approach</td><td>PX</td><td>ICD-10-CM</td></td<>	0QP607Z	Removal of Autologous Tissue Substitute from Right Upper Femur, Open Approach	PX	ICD-10-CM
0QP634ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP635ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP637ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP637ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP63ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64SZRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64TZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP64ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP70ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP70ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP70ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP73ZRemoval of Synthetic Substitu	0QP60JZ	Removal of Synthetic Substitute from Right Upper Femur, Open Approach	PX	ICD-10-CM
0QP635ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP637ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP63IZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP63IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP644ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP647ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP641ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP64IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CM0QP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP705ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP707ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP701ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP734ZRemoval of Internal Fixation De	0QP60KZ	Removal of Nonautologous Tissue Substitute from Right Upper Femur, Open Approach	PX	ICD-10-CM
OQP637ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CMOQP63JZRemoval of Synthetic Substitute from Right Upper Femur, PercutaneousPXICD-10-CMOQP63JZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CMOQP64JZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP645ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP647ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64IZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CMOQP704ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Open ApproachPXICD-10-CMOQP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP701ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP701ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73	0QP634Z	Removal of Internal Fixation Device from Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QP631ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous ApproachPXICD-10-CM0QP63KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP644ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of External Fixation Device from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CM0QP647ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CM0QP64IZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP64KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP701ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP701ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP735ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPX	0QP635Z	Removal of External Fixation Device from Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QP63KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CM0QP644ZRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM0QP645ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM0QP647ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM0QP641ZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM0QP64LZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP707ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP701ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP701ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP737ZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP731ZRemoval of Nonautologous Tissue Su	0QP637Z	Removal of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QP644Z ApproachRemoval of Internal Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM ICD-10-CM ICD-10-CM Approach0QP645Z QP647ZRemoval of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM ICD-10-CM PX0QP647Z QP641Z QP641Z Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CM ICD-10-CM Endoscopic Approach0QP704Z QP704Z QP704Z Removal of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM PX0QP704Z QP705Z Removal of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP707Z QP707Z Removal of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CM0QP701Z QP708Z Removal of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CM0QP734Z QP734Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP735Z QP735Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP731Z Removal of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP731Z Removal of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP731Z Removal of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CM0QP731Z Removal of Synthe	0QP63JZ	Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
Approach  OQP645Z Removal of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic Approach  OQP647Z Removal of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic Approach  OQP64IZ Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach  OQP64IZ Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous PX ICD-10-CM Endoscopic Approach  OQP704Z Removal of Internal Fixation Device from Left Upper Femur, Open Approach PX ICD-10-CM OQP705Z Removal of External Fixation Device from Left Upper Femur, Open Approach PX ICD-10-CM OQP707Z Removal of Synthetic Substitute from Left Upper Femur, Open Approach PX ICD-10-CM OQP707Z Removal of Synthetic Substitute from Left Upper Femur, Open Approach PX ICD-10-CM OQP707Z Removal of Nonautologous Tissue Substitute from Left Upper Femur, Open Approach PX ICD-10-CM OQP707Z Removal of Internal Fixation Device from Left Upper Femur, Open Approach PX ICD-10-CM OQP707Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP735Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP737Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP731Z Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP731Z Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP731Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP731Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP734Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP734Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM OQP744Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM O	0QP63KZ	Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous	PX	ICD-10-CM
OQP645Z ApproachRemoval of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP647Z ApproachRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP64IZ Endoscopic ApproachPXICD-10-CMOQP64KZ Endoscopic ApproachPXICD-10-CMOQP704Z Endoscopic ApproachPXICD-10-CMOQP704Z Endoscopic ApproachPXICD-10-CMOQP704Z Endoscopic ApproachPXICD-10-CMOQP705Z QP705Z Emoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP707Z QP707Z Emoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP701Z QP701Z QP701Z Emoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP701Z QP734Z QP734Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP734Z QP735Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP731Z QP731Z Removal of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP731Z QP73KZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZ ApproachPXICD-10-CMICD-10-CMOQP74KZ ApproachRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-C	0QP644Z	Removal of Internal Fixation Device from Right Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
Approach  OQP647Z Removal of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic Approach  OQP641Z Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic PX ICD-10-CM CM C		Approach		
OQP647ZRemoval of Autologous Tissue Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64JZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP707ZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70IZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP731ZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP731ZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP731ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP745ZRemoval of Au	0QP645Z	Removal of External Fixation Device from Right Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
Approach  OQP64JZ Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic PX ICD-10-CM  OQP64KZ Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous PX ICD-10-CM  Endoscopic Approach  OQP704Z Removal of Internal Fixation Device from Left Upper Femur, Open Approach PX ICD-10-CM  OQP705Z Removal of External Fixation Device from Left Upper Femur, Open Approach PX ICD-10-CM  OQP707Z Removal of Autologous Tissue Substitute from Left Upper Femur, Open Approach PX ICD-10-CM  OQP70JZ Removal of Synthetic Substitute from Left Upper Femur, Open Approach PX ICD-10-CM  OQP70JZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Open Approach PX ICD-10-CM  OQP70KZ Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP734Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP737Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP73IZ Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP73IZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP73IZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP744Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach PX ICD-10-CM  OQP744Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM  OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM  OQP745Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM  OQP745Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM  OQP745Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM		Approach		
OQP64JZRemoval of Synthetic Substitute from Right Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP64KZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, PercutaneousPXICD-10-CMEndoscopic ApproachEndoscopic ApproachPXICD-10-CMOQP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP707ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70JZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP734ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP745ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP745ZRemoval of Autologous Tissue Substitute from Left Upper Femu	0QP647Z	Removal of Autologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
OQP64KZ CORP704ZRemoval of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous Endoscopic ApproachPXICD-10-CMOQP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP707ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70JZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP745ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachPXICD-10-CMOQP745ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachPXICD-10-CMOQP747ZRemoval of Autologous Tis		Approach		
Endoscopic Approach  OQP704Z Removal of Internal Fixation Device from Left Upper Femur, Open Approach  PX ICD-10-CM  OQP705Z Removal of External Fixation Device from Left Upper Femur, Open Approach  PX ICD-10-CM  OQP707Z Removal of Autologous Tissue Substitute from Left Upper Femur, Open Approach  OQP70JZ Removal of Synthetic Substitute from Left Upper Femur, Open Approach  OQP70KZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Open Approach  OQP734Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach  OQP735Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Approach  OQP737Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Approach  OQP731Z Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach  OQP73KZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach  OQP74KZ Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach  OQP74KZ Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach  OQP74FZ Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic  Approach  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  Approach  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  Approach  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  Approach  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  Approach  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  PX ICD-10-CM  Approach  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  PX ICD-10-CM  OQP74FZ Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic  PX ICD-10-CM	0QP64JZ	Removal of Synthetic Substitute from Right Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
OQP704ZRemoval of Internal Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP707ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70IZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73IZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP745ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP745ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM	0QP64KZ	Removal of Nonautologous Tissue Substitute from Right Upper Femur, Percutaneous	PX	ICD-10-CM
OQP705ZRemoval of External Fixation Device from Left Upper Femur, Open ApproachPXICD-10-CMOQP707ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70JZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP745ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM		Endoscopic Approach		
OQP707ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70JZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP745ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM	0QP704Z	Removal of Internal Fixation Device from Left Upper Femur, Open Approach	PX	ICD-10-CM
OQP70JZRemoval of Synthetic Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CM	0QP705Z	Removal of External Fixation Device from Left Upper Femur, Open Approach	PX	ICD-10-CM
OQP70KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Open ApproachPXICD-10-CMOQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM	0QP707Z	Removal of Autologous Tissue Substitute from Left Upper Femur, Open Approach	PX	ICD-10-CM
OQP734ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM	0QP70JZ	Removal of Synthetic Substitute from Left Upper Femur, Open Approach	PX	ICD-10-CM
OQP735ZRemoval of External Fixation Device from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP737ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73JZRemoval of Synthetic Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP73KZRemoval of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous ApproachPXICD-10-CMOQP744ZRemoval of Internal Fixation Device from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CMApproachApproachPXICD-10-CMOQP747ZRemoval of Autologous Tissue Substitute from Left Upper Femur, Percutaneous EndoscopicPXICD-10-CM	0QP70KZ	Removal of Nonautologous Tissue Substitute from Left Upper Femur, Open Approach	PX	ICD-10-CM
OQP737Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP73JZ Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP73KZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP744Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP734Z	Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
OQP73JZ Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach PX ICD-10-CM OQP73KZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach OQP744Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP735Z	Removal of External Fixation Device from Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
OQP73KZ Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach OQP744Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP737Z	Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
OQP744Z Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach  OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach  OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP73JZ	Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
Approach  OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach  OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP73KZ	Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
OQP745Z Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM Approach  OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP744Z	Removal of Internal Fixation Device from Left Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
Approach OQP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM		Approach		
0QP747Z Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic PX ICD-10-CM	0QP745Z	Removal of External Fixation Device from Left Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
		Approach		
Approach	0QP747Z	Removal of Autologous Tissue Substitute from Left Upper Femur, Percutaneous Endoscopic	PX	ICD-10-CM
		Approach		

cder\_mpl2p\_wp047 Page 670 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
0QP74JZ	Removal of Synthetic Substitute from Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP74KZ	Removal of Nonautologous Tissue Substitute from Left Upper Femur, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QP804Z	Removal of Internal Fixation Device from Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP805Z	Removal of External Fixation Device from Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP807Z	Removal of Autologous Tissue Substitute from Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP80JZ	Removal of Synthetic Substitute from Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP80KZ	Removal of Nonautologous Tissue Substitute from Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP834Z	Removal of Internal Fixation Device from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP835Z	Removal of External Fixation Device from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP837Z	Removal of Autologous Tissue Substitute from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP83JZ	Removal of Synthetic Substitute from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP83KZ	Removal of Nonautologous Tissue Substitute from Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP844Z	Removal of Internal Fixation Device from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP845Z	Removal of External Fixation Device from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP847Z	Removal of Autologous Tissue Substitute from Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP84JZ	Removal of Synthetic Substitute from Right Femoral Shaft, Percutaneous Endoscopic	PX	ICD-10-CM
0QP84KZ	Removal of Nonautologous Tissue Substitute from Right Femoral Shaft, Percutaneous	PX	ICD-10-CM
0000047	Endoscopic Approach	D)/	100 40 604
0QP904Z	Removal of Internal Fixation Device from Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP905Z	Removal of External Fixation Device from Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP907Z	Removal of Autologous Tissue Substitute from Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP90JZ	Removal of Synthetic Substitute from Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP90KZ	Removal of Nonautologous Tissue Substitute from Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QP934Z	Removal of Internal Fixation Device from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP935Z	Removal of External Fixation Device from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP937Z	Removal of Autologous Tissue Substitute from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP93JZ	Removal of Synthetic Substitute from Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QP93KZ	Removal of Nonautologous Tissue Substitute from Left Femoral Shaft, Percutaneous	PX	ICD-10-CM
0QP944Z	Removal of Internal Fixation Device from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP945Z	Removal of External Fixation Device from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP947Z	Removal of Autologous Tissue Substitute from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP94JZ	Removal of Synthetic Substitute from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QP94KZ	Removal of Nonautologous Tissue Substitute from Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPB04Z	Removal of Internal Fixation Device from Right Lower Femur, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 671 of 702



	naracteristics in this Request	Code	Code
Code	Description	Type	Category
0QPB05Z	Removal of External Fixation Device from Right Lower Femur, Open Approach	PX	ICD-10-CM
0QPB07Z	Removal of Autologous Tissue Substitute from Right Lower Femur, Open Approach	PX	ICD-10-CM
0QPB0JZ	Removal of Synthetic Substitute from Right Lower Femur, Open Approach	PX	ICD-10-CM
0QPB0KZ	Removal of Nonautologous Tissue Substitute from Right Lower Femur, Open Approach	PX	ICD-10-CM
0QPB34Z	Removal of Internal Fixation Device from Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPB35Z	Removal of External Fixation Device from Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPB37Z	Removal of Autologous Tissue Substitute from Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPB3JZ	Removal of Synthetic Substitute from Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPB3KZ	Removal of Nonautologous Tissue Substitute from Right Lower Femur, Percutaneous	PX	ICD-10-CM
0QPB44Z	Removal of Internal Fixation Device from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPB45Z	Removal of External Fixation Device from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPB47Z	Removal of Autologous Tissue Substitute from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPB4JZ	Removal of Synthetic Substitute from Right Lower Femur, Percutaneous Endoscopic	PX	ICD-10-CM
0QPB4KZ	Removal of Nonautologous Tissue Substitute from Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPC04Z	Removal of Internal Fixation Device from Left Lower Femur, Open Approach	PX	ICD-10-CM
0QPC05Z	Removal of External Fixation Device from Left Lower Femur, Open Approach	PX	ICD-10-CM
0QPC07Z	Removal of Autologous Tissue Substitute from Left Lower Femur, Open Approach	PX	ICD-10-CM
0QPC0JZ	Removal of Synthetic Substitute from Left Lower Femur, Open Approach	PX	ICD-10-CM
0QPC0KZ	Removal of Nonautologous Tissue Substitute from Left Lower Femur, Open Approach	PX	ICD-10-CM
0QPC34Z	Removal of Internal Fixation Device from Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPC35Z	Removal of External Fixation Device from Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPC37Z	Removal of Autologous Tissue Substitute from Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPC3JZ	Removal of Synthetic Substitute from Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPC3KZ	Removal of Nonautologous Tissue Substitute from Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QPC44Z	Removal of Internal Fixation Device from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPC45Z	Removal of External Fixation Device from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPC47Z	Removal of Autologous Tissue Substitute from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPC4JZ	Removal of Synthetic Substitute from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QPC4KZ	Removal of Nonautologous Tissue Substitute from Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQ60ZZ	Repair Right Upper Femur, Open Approach	PX	ICD-10-CM
0QQ63ZZ	Repair Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QQ64ZZ	Repair Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQ6XZZ	Repair Right Upper Femur, External Approach	PX	ICD-10-CM
0QQ70ZZ	Repair Left Upper Femur, Open Approach	PX	ICD-10-CM
0QQ73ZZ	Repair Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 672 of 702



Appendix H. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) Diagnosis Codes, Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4), and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Baseline Characteristics in this Request

Daseille Cr	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
0QQ74ZZ	Repair Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQ7XZZ	Repair Left Upper Femur, External Approach	PX	ICD-10-CM
0QQ80ZZ	Repair Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QQ83ZZ	Repair Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QQ84ZZ	Repair Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQ8XZZ	Repair Right Femoral Shaft, External Approach	PX	ICD-10-CM
0QQ90ZZ	Repair Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QQ93ZZ	Repair Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QQ94ZZ	Repair Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQ9XZZ	Repair Left Femoral Shaft, External Approach	PX	ICD-10-CM
0QQB0ZZ	Repair Right Lower Femur, Open Approach	PX	ICD-10-CM
0QQB3ZZ	Repair Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QQB4ZZ	Repair Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQBXZZ	Repair Right Lower Femur, External Approach	PX	ICD-10-CM
0QQC0ZZ	Repair Left Lower Femur, Open Approach	PX	ICD-10-CM
0QQC3ZZ	Repair Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QQC4ZZ	Repair Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QQCXZZ	Repair Left Lower Femur, External Approach	PX	ICD-10-CM
OQR60JZ	Replacement of Right Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QR63JZ	Replacement of Right Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QR64JZ	Replacement of Right Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QR70JZ	Replacement of Left Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QR73JZ	Replacement of Left Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QR74JZ	Replacement of Left Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QR80JZ	Replacement of Right Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QR83JZ	Replacement of Right Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QR84JZ	Replacement of Right Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QR90JZ	Replacement of Left Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QR93JZ	Replacement of Left Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QR94JZ	Replacement of Left Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QRB0JZ	Replacement of Right Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QRB3JZ	Replacement of Right Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
OQRB4JZ	Replacement of Right Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QRC0JZ	Replacement of Left Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QRC3JZ	Replacement of Left Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QRC4JZ	Replacement of Left Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS604Z	Reposition Right Upper Femur with Internal Fixation Device, Open Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 673 of 702



Dasellile C	naracteristics in this Request	Code	Code
Code	Description	Type	Category
0QS605Z	Reposition Right Upper Femur with External Fixation Device, Open Approach	PX	ICD-10-CM
0QS606Z	Reposition Right Upper Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS60BZ	Reposition Right Upper Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0QS60CZ	Reposition Right Upper Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0QS60DZ	Reposition Right Upper Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
0QS60ZZ	Reposition Right Upper Femur, Open Approach	PX	ICD-10-CM
0QS634Z	Reposition Right Upper Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS635Z	Reposition Right Upper Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS636Z	Reposition Right Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS63BZ	Reposition Right Upper Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS63CZ	Reposition Right Upper Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS63DZ	Reposition Right Upper Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS63ZZ	Reposition Right Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QS644Z	Reposition Right Upper Femur with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS645Z	Reposition Right Upper Femur with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS646Z	Reposition Right Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS64BZ	Reposition Right Upper Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS64CZ	Reposition Right Upper Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS64DZ	Reposition Right Upper Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS64ZZ	Reposition Right Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS6XZZ	Reposition Right Upper Femur, External Approach	PX	ICD-10-CM
0QS704Z	Reposition Left Upper Femur with Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS705Z	Reposition Left Upper Femur with External Fixation Device, Open Approach	PX	ICD-10-CM
0QS706Z	Reposition Left Upper Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS70BZ	Reposition Left Upper Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0QS70CZ	Reposition Left Upper Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0QS70DZ	Reposition Left Upper Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
0QS70ZZ	Reposition Left Upper Femur, Open Approach	PX	ICD-10-CM
0QS734Z	Reposition Left Upper Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS735Z	Reposition Left Upper Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS736Z	Reposition Left Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS73BZ	Reposition Left Upper Femur with Monoplanar External Fixation Device, Percutaneous  Approach	PX	ICD-10-CM
0QS73CZ	Reposition Left Upper Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 674 of 702



		Code	Code
Code	Description	Type	Category
0QS73DZ	Reposition Left Upper Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS73ZZ	Reposition Left Upper Femur, Percutaneous Approach	PX	ICD-10-CM
0QS744Z	Reposition Left Upper Femur with Internal Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
0QS745Z	Reposition Left Upper Femur with External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
0QS746Z	Reposition Left Upper Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS74BZ	Reposition Left Upper Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS74CZ	Reposition Left Upper Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	РХ	ICD-10-CM
0QS74DZ	Reposition Left Upper Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS74ZZ	Reposition Left Upper Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS7XZZ	Reposition Left Upper Femur, External Approach	PX	ICD-10-CM
0QS804Z	Reposition Right Femoral Shaft with Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS805Z	Reposition Right Femoral Shaft with External Fixation Device, Open Approach	PX	ICD-10-CM
0QS806Z	Reposition Right Femoral Shaft with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS80BZ	Reposition Right Femoral Shaft with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0QS80CZ	Reposition Right Femoral Shaft with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0QS80DZ	Reposition Right Femoral Shaft with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
0QS80ZZ	Reposition Right Femoral Shaft, Open Approach	PX	ICD-10-CM
0QS834Z	Reposition Right Femoral Shaft with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS835Z	Reposition Right Femoral Shaft with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS836Z	Reposition Right Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS83BZ	Reposition Right Femoral Shaft with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS83CZ	Reposition Right Femoral Shaft with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS83DZ	Reposition Right Femoral Shaft with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS83ZZ	Reposition Right Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QS844Z	Reposition Right Femoral Shaft with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS845Z	Reposition Right Femoral Shaft with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS846Z	Reposition Right Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS84BZ	Reposition Right Femoral Shaft with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS84CZ	Reposition Right Femoral Shaft with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS84DZ	Reposition Right Femoral Shaft with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	РХ	ICD-10-CM
0QS84ZZ	Reposition Right Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 675 of 702



baseiiie Ci	naracteristics in this Request	Code	Code
Code	Description	Type	Category
0QS8XZZ	Reposition Right Femoral Shaft, External Approach	PX	ICD-10-CM
0QS904Z	Reposition Left Femoral Shaft with Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS905Z	Reposition Left Femoral Shaft with External Fixation Device, Open Approach	PX	ICD-10-CM
0QS906Z	Reposition Left Femoral Shaft with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QS90BZ	Reposition Left Femoral Shaft with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0QS90CZ	Reposition Left Femoral Shaft with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0QS90DZ	Reposition Left Femoral Shaft with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
0QS90ZZ	Reposition Left Femoral Shaft, Open Approach	PX	ICD-10-CM
0QS934Z	Reposition Left Femoral Shaft with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS935Z	Reposition Left Femoral Shaft with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS936Z	Reposition Left Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous	PX	ICD-10-CM
	Approach		
0QS93BZ	Reposition Left Femoral Shaft with Monoplanar External Fixation Device, Percutaneous	PX	ICD-10-CM
	Approach		
0QS93CZ	Reposition Left Femoral Shaft with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS93DZ	Reposition Left Femoral Shaft with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QS93ZZ	Reposition Left Femoral Shaft, Percutaneous Approach	PX	ICD-10-CM
0QS944Z	Reposition Left Femoral Shaft with Internal Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QS945Z	Reposition Left Femoral Shaft with External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QS946Z	Reposition Left Femoral Shaft with Intramedullary Internal Fixation Device, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QS94BZ	Reposition Left Femoral Shaft with Monoplanar External Fixation Device, Percutaneous	PX	ICD-10-CM
	Endoscopic Approach		
0QS94CZ	Reposition Left Femoral Shaft with Ring External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QS94DZ	Reposition Left Femoral Shaft with Hybrid External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QS94ZZ	Reposition Left Femoral Shaft, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QS9XZZ	Reposition Left Femoral Shaft, External Approach	PX	ICD-10-CM
0QSB04Z	Reposition Right Lower Femur with Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QSB05Z	Reposition Right Lower Femur with External Fixation Device, Open Approach	PX	ICD-10-CM
0QSB06Z	Reposition Right Lower Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QSB0BZ	Reposition Right Lower Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0QSB0CZ	Reposition Right Lower Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0QSB0DZ	Reposition Right Lower Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
0QSB0ZZ	Reposition Right Lower Femur, Open Approach	PX	ICD-10-CM
0QSB34Z	Reposition Right Lower Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSB35Z	Reposition Right Lower Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSB36Z	Reposition Right Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 676 of 702



		Code	Code
Code	Description	Туре	Category
0QSB3BZ	Reposition Right Lower Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSB3CZ	Reposition Right Lower Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSB3DZ	Reposition Right Lower Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSB3ZZ	Reposition Right Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QSB44Z	Reposition Right Lower Femur with Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSB45Z	Reposition Right Lower Femur with External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSB46Z	Reposition Right Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSB4BZ	Reposition Right Lower Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSB4CZ	Reposition Right Lower Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSB4DZ	Reposition Right Lower Femur with Hybrid External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSB4ZZ	Reposition Right Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSBXZZ	Reposition Right Lower Femur, External Approach	PX	ICD-10-CM
0QSC04Z	Reposition Left Lower Femur with Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QSC05Z	Reposition Left Lower Femur with External Fixation Device, Open Approach	PX	ICD-10-CM
0QSC06Z	Reposition Left Lower Femur with Intramedullary Internal Fixation Device, Open Approach	PX	ICD-10-CM
0QSC0BZ	Reposition Left Lower Femur with Monoplanar External Fixation Device, Open Approach	PX	ICD-10-CM
0QSC0CZ	Reposition Left Lower Femur with Ring External Fixation Device, Open Approach	PX	ICD-10-CM
0QSC0DZ	Reposition Left Lower Femur with Hybrid External Fixation Device, Open Approach	PX	ICD-10-CM
0QSC0ZZ	Reposition Left Lower Femur, Open Approach	PX	ICD-10-CM
0QSC34Z	Reposition Left Lower Femur with Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSC35Z	Reposition Left Lower Femur with External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSC36Z	Reposition Left Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSC3BZ	Reposition Left Lower Femur with Monoplanar External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSC3CZ	Reposition Left Lower Femur with Ring External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSC3DZ	Reposition Left Lower Femur with Hybrid External Fixation Device, Percutaneous Approach	PX	ICD-10-CM
0QSC3ZZ	Reposition Left Lower Femur, Percutaneous Approach	PX	ICD-10-CM
0QSC44Z	Reposition Left Lower Femur with Internal Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
0QSC45Z	Reposition Left Lower Femur with External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
0QSC46Z	Reposition Left Lower Femur with Intramedullary Internal Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSC4BZ	Reposition Left Lower Femur with Monoplanar External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSC4CZ	Reposition Left Lower Femur with Ring External Fixation Device, Percutaneous Endoscopic Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 677 of 702



baseline Ci	naracteristics in this Request	Code	Code
Code	Description	Type	Category
0QSC4DZ	Reposition Left Lower Femur with Hybrid External Fixation Device, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QSC4ZZ	Reposition Left Lower Femur, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QSCXZZ	Reposition Left Lower Femur, External Approach	PX	ICD-10-CM
0QU60JZ	Supplement Right Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QU63JZ	Supplement Right Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QU64JZ	Supplement Right Upper Femur with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-CM
0QU70JZ	Supplement Left Upper Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QU73JZ	Supplement Left Upper Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QU74JZ	Supplement Left Upper Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QU80JZ	Supplement Right Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QU83JZ	Supplement Right Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QU84JZ	Supplement Right Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-CM
	Approach		
0QU90JZ	Supplement Left Femoral Shaft with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QU93JZ	Supplement Left Femoral Shaft with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QU94JZ	Supplement Left Femoral Shaft with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0QUB0JZ	Supplement Right Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QUB3JZ	Supplement Right Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QUB4JZ	Supplement Right Lower Femur with Synthetic Substitute, Percutaneous Endoscopic	PX	ICD-10-CM
0QUC0JZ	Supplement Left Lower Femur with Synthetic Substitute, Open Approach	PX	ICD-10-CM
0QUC3JZ	Supplement Left Lower Femur with Synthetic Substitute, Percutaneous Approach	PX	ICD-10-CM
0QUC4JZ	Supplement Left Lower Femur with Synthetic Substitute, Percutaneous Endoscopic Approach	PX	ICD-10-CM
0XH23YZ	Insertion of Other Device into Right Shoulder Region, Percutaneous Approach	PX	ICD-10-CM
0XH33YZ	Insertion of Other Device into Left Shoulder Region, Percutaneous Approach	PX	ICD-10-CM
R55	Syncope and collapse	DX	ICD-10-CM
	Cardioversion		
99.61	Atrial cardioversion	PX	ICD-09-CM
99.62	Other electric countershock of heart	PX	ICD-09-CM
92960	External shock to heart to regulate heart beat	PX	CPT-4
92961	Internal shock to heart to regulate heart beat	PX	CPT-4
5A2204Z	Restoration of Cardiac Rhythm, Single	PX	ICD-10-CM
	Cardioablation		
37.33	Excision or destruction of other lesion or tissue of heart, open approach	PX	ICD-09-CM
37.34	Excision or destruction of other lesion or tissue of heart, other approach	PX	ICD-09-CM
33250	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-Parkinson-	PX	CPT-4
	White, atrioventricular node re-entry), tract(s) and/or focus (foci); without cardiopulmonary		
2225	bypass	<b>5</b>	0.0
33251	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-Parkinson-	PX	CPT-4
	White, atrioventricular node re-entry), tract(s) and/or focus (foci); with cardiopulmonary		
22254	bypass	D\/	CDT 4
33254	Operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure)	PX	CPT-4

cder\_mpl2p\_wp047 Page 678 of 702



		Code	Code
Code	Description	Type	Category
33255	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); without cardiopulmonary bypass	PX	CPT-4
33256	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); with cardiopulmonary bypass	PX	CPT-4
33257	Operative tissue ablation and reconstruction of atria, performed at the time of other cardiac procedure(s), limited (eg, modified maze procedure) (List separately in addition to code for primary procedure)	PX	CPT-4
33258	Operative tissue ablation and reconstruction of atria, performed at the time of other cardiac procedure(s), extensive (eg, maze procedure), without cardiopulmonary bypass (List separately in addition to code for primary procedure)	PX	CPT-4
33259	Operative tissue ablation and reconstruction of atria, performed at the time of other cardiac procedure(s), extensive (eg, maze procedure), with cardiopulmonary bypass (List separately in addition to code for primary procedure)	PX	CPT-4
33261	Operative ablation of ventricular arrhythmogenic focus with cardiopulmonary bypass	PX	CPT-4
33265	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure), without cardiopulmonary bypass	PX	CPT-4
33266	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure), without cardiopulmonary bypass	PX	CPT-4
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction for creation of complete heart block, with or without temporary pacemaker placement	PX	CPT-4
93651	Intracardiac catheter ablation of arrhythmogenic focus; for treatment of supraventricular tachycardia by ablation of fast or slow atrioventricular pathways, accessory atrioventricular connections or other atrial foci, singly or in combination	PX	CPT-4
93652	Intracardiac catheter ablation of arrhythmogenic focus; for treatment of ventricular tachycardia	PX	CPT-4
C1732	Catheter, electrophysiology, diagnostic/ablation, 3D or vector mapping	PX	HCPCS
C1733	Catheter, electrophysiology, diagnostic/ablation, other than 3D or vector mapping, other than cool-tip	PX	HCPCS
C2630	Catheter, electrophysiology, diagnostic/ablation, other than 3D or vector mapping, cool-tip	PX	HCPCS
02550ZZ	Destruction of Atrial Septum, Open Approach	PX	ICD-10-CM
02553ZZ	Destruction of Atrial Septum, Percutaneous Approach	PX	ICD-10-CM
02560ZZ	Destruction of Right Atrium, Open Approach	PX	ICD-10-CM
02563ZZ	Destruction of Right Atrium, Percutaneous Approach	PX	ICD-10-CM
02570ZZ	Destruction of Left Atrium, Open Approach	PX	ICD-10-CM
02573ZZ	Destruction of Left Atrium, Percutaneous Approach	PX	ICD-10-CM
02580ZZ	Destruction of Conduction Mechanism, Open Approach	PX	ICD-10-CM
02583ZZ	Destruction of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-CM
02590ZZ	Destruction of Chordae Tendineae, Open Approach	PX	ICD-10-CM
02593ZZ	Destruction of Chordae Tendineae, Percutaneous Approach	PX	ICD-10-CM
025F0ZZ	Destruction of Aortic Valve, Open Approach	PX	ICD-10-CM
025F3ZZ	Destruction of Aortic Valve, Percutaneous Approach	PX	ICD-10-CM
025G0ZZ	Destruction of Mitral Valve, Open Approach	PX	ICD-10-CM
025G3ZZ	Destruction of Mitral Valve, Percutaneous Approach	PX	ICD-10-CM

cder\_mpl2p\_wp047 Page 679 of 702



Dascillie Ci	laracteristics in this Request	Code	Code
Code	Description	Туре	Category
025H0ZZ	Destruction of Pulmonary Valve, Open Approach	PX	ICD-10-CM
025H3ZZ	Destruction of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-CM
025J0ZZ	Destruction of Tricuspid Valve, Open Approach	PX	ICD-10-CM
025J3ZZ	Destruction of Tricuspid Valve, Percutaneous Approach	PX	ICD-10-CM
025K0ZZ	Destruction of Right Ventricle, Open Approach	PX	ICD-10-CM
025K3ZZ	Destruction of Right Ventricle, Percutaneous Approach	PX	ICD-10-CM
025L0ZZ	Destruction of Left Ventricle, Open Approach	PX	ICD-10-CM
025L3ZZ	Destruction of Left Ventricle, Percutaneous Approach	PX	ICD-10-CM
025M0ZZ	Destruction of Ventricular Septum, Open Approach	PX	ICD-10-CM
025M3ZZ	Destruction of Ventricular Septum, Percutaneous Approach	PX	ICD-10-CM
02B50ZZ	Excision of Atrial Septum, Open Approach	PX	ICD-10-CM
02B53ZZ	Excision of Atrial Septum, Percutaneous Approach	PX	ICD-10-CM
02B60ZZ	Excision of Right Atrium, Open Approach	PX	ICD-10-CM
02B63ZZ	Excision of Right Atrium, Percutaneous Approach	PX	ICD-10-CM
02B70ZZ	Excision of Left Atrium, Open Approach	PX	ICD-10-CM
02B73ZZ	Excision of Left Atrium, Percutaneous Approach	PX	ICD-10-CM
02B80ZZ	Excision of Conduction Mechanism, Open Approach	PX	ICD-10-CM
02B83ZZ	Excision of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-CM
02B90ZZ	Excision of Chordae Tendineae, Open Approach	PX	ICD-10-CM
02B93ZZ	Excision of Chordae Tendineae, Percutaneous Approach	PX	ICD-10-CM
02BF0ZZ	Excision of Aortic Valve, Open Approach	PX	ICD-10-CM
02BF3ZZ	Excision of Aortic Valve, Percutaneous Approach	PX	ICD-10-CM
02BG0ZZ	Excision of Mitral Valve, Open Approach	PX	ICD-10-CM
02BG3ZZ	Excision of Mitral Valve, Percutaneous Approach	PX	ICD-10-CM
02BH0ZZ	Excision of Pulmonary Valve, Open Approach	PX	ICD-10-CM
02BH3ZZ	Excision of Pulmonary Valve, Percutaneous Approach	PX	ICD-10-CM
02BJ0ZZ	Excision of Tricuspid Valve, Open Approach	PX	ICD-10-CM
02BJ3ZZ	Excision of Tricuspid Valve, Percutaneous Approach	PX	ICD-10-CM
02BK0ZZ	Excision of Right Ventricle, Open Approach	PX	ICD-10-CM
02BK3ZZ	Excision of Right Ventricle, Percutaneous Approach	PX	ICD-10-CM
02BL0ZZ	Excision of Left Ventricle, Open Approach	PX	ICD-10-CM
02BL3ZZ	Excision of Left Ventricle, Percutaneous Approach	PX	ICD-10-CM
02BM0ZZ	Excision of Ventricular Septum, Open Approach	PX	ICD-10-CM
02BM3ZZ	Excision of Ventricular Septum, Percutaneous Approach	PX	ICD-10-CM
02T80ZZ	Resection of Conduction Mechanism, Open Approach	PX	ICD-10-CM
02T83ZZ	Resection of Conduction Mechanism, Percutaneous Approach	PX	ICD-10-CM
C2618	Probe/needle, cryoablation	PX	HCPCS
	Hospitalized for bleeding		_
280.0	Iron deficiency anemia secondary to blood loss (chronic)	DX	ICD-09-CM
285.1	Acute posthemorrhagic anemia	DX	ICD-09-CM
285.9	Unspecified anemia	DX	ICD-09-CM
423.0	Hemopericardium	DX	ICD-09-CM
430	Subarachnoid hemorrhage	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 680 of 702



Dascille Ci	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
431	Intracerebral hemorrhage	DX	ICD-09-CM
432.0	Nontraumatic extradural hemorrhage	DX	ICD-09-CM
432.1	Subdural hemorrhage	DX	ICD-09-CM
432.9	Unspecified intracranial hemorrhage	DX	ICD-09-CM
455	Hemorrhoids	DX	ICD-09-CM
455.0	Internal hemorrhoids without mention of complication	DX	ICD-09-CM
455.1	Internal thrombosed hemorrhoids	DX	ICD-09-CM
455.2	Internal hemorrhoids with other complication	DX	ICD-09-CM
455.3	External hemorrhoids without mention of complication	DX	ICD-09-CM
455.4	External thrombosed hemorrhoids	DX	ICD-09-CM
455.5	External hemorrhoids with other complication	DX	ICD-09-CM
455.6	Unspecified hemorrhoids without mention of complication	DX	ICD-09-CM
455.7	Unspecified thrombosed hemorrhoids	DX	ICD-09-CM
455.8	Unspecified hemorrhoids with other complication	DX	ICD-09-CM
455.9	Residual hemorrhoidal skin tags	DX	ICD-09-CM
456.0	Esophageal varices with bleeding	DX	ICD-09-CM
456.20	Esophageal varices with bleeding in diseases classified elsewhere	DX	ICD-09-CM
459.0	Unspecified hemorrhage	DX	ICD-09-CM
530.1	Esophagitis	DX	ICD-09-CM
530.10	Unspecified esophagitis	DX	ICD-09-CM
530.11	Reflux esophagitis	DX	ICD-09-CM
530.12	Acute esophagitis	DX	ICD-09-CM
530.13	Eosinophilic esophagitis	DX	ICD-09-CM
530.19	Other esophagitis	DX	ICD-09-CM
530.7	Gastroesophageal laceration-hemorrhage syndrome	DX	ICD-09-CM
530.82	Esophageal hemorrhage	DX	ICD-09-CM
531.0	Acute gastric ulcer with hemorrhage	DX	ICD-09-CM
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	DX	ICD-09-CM
531.01	Acute gastric ulcer with hemorrhage and obstruction	DX	ICD-09-CM
531.1	Acute gastric ulcer with perforation	DX	ICD-09-CM
531.10	Acute gastric ulcer with perforation, without mention of obstruction	DX	ICD-09-CM
531.11	Acute gastric ulcer with perforation and obstruction	DX	ICD-09-CM
531.2	Acute gastric ulcer with hemorrhage and perforation	DX	ICD-09-CM
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	DX	ICD-09-CM
531.30	Acute gastric ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
531.31	Acute gastric ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
531.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-09-CM
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	DX	ICD-09-CM
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	DX	ICD-09-CM
531.5	Chronic or unspecified gastric ulcer with perforation	DX	ICD-09-CM
531.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 681 of 702



		Code	Code
Code	Description	Type	Category
531.51	Chronic or unspecified gastric ulcer with perforation and obstruction	DX	ICD-09-CM
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	DX	ICD-09-CM
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	DX	ICD-09-CM
531.70	Chronic gastric ulcer without mention of hemorrhage, perforation, without mention of obstruction	DX	ICD-09-CM
531.71	Chronic gastric ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
531.9	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-09-CM
531.90	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
531.91	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
532.0	Acute duodenal ulcer with hemorrhage	DX	ICD-09-CM
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	DX	ICD-09-CM
532.01	Acute duodenal ulcer with hemorrhage and obstruction	DX	ICD-09-CM
532.1	Acute duodenal ulcer with perforation	DX	ICD-09-CM
532.10	Acute duodenal ulcer with perforation, without mention of obstruction	DX	ICD-09-CM
532.11	Acute duodenal ulcer with perforation and obstruction	DX	ICD-09-CM
532.2	Acute duodenal ulcer with hemorrhage and perforation	DX	ICD-09-CM
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-09-CM
532.30	Acute duodenal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
532.31	Acute duodenal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
532.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-09-CM
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	DX	ICD-09-CM
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	DX	ICD-09-CM
532.5	Chronic or unspecified duodenal ulcer with perforation	DX	ICD-09-CM
532.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction	DX	ICD-09-CM
532.51	Chronic or unspecified duodenal ulcer with perforation and obstruction	DX	ICD-09-CM
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	DX	ICD-09-CM
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	DX	ICD-09-CM
532.70	Chronic duodenal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
532.71	Chronic duodenal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-09-CM
532.90	Duodenal ulcer, unspecified as acute or chronic, without hemorrhage, perforation, or obstruction	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 682 of 702



		Code	Code
Code	Description	Туре	Category
532.91	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	DX	ICD-09-CM
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-09-CM
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-09-CM
533.1	Acute peptic ulcer, unspecified site, with perforation	DX	ICD-09-CM
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	DX	ICD-09-CM
533.11	Acute peptic ulcer, unspecified site, with perforation and obstruction	DX	ICD-09-CM
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	DX	ICD-09-CM
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	DX	ICD-09-CM
533.30	Acute peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with obstruction	DX	ICD-09-CM
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	DX	ICD-09-CM
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	DX	ICD-09-CM
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	DX	ICD-09-CM
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	DX	ICD-09-CM
533.50	Chronic or unspecified peptic ulcer, unspecified site, with perforation, without mention of obstruction	DX	ICD-09-CM
533.51	Chronic or unspecified peptic ulcer, unspecified site, with perforation and obstruction	DX	ICD-09-CM
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	DX	ICD-09-CM
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	DX	ICD-09-CM
533.70	Chronic peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
533.71	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-09-CM
533.90	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
533.91	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
534.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-09-CM
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 683 of 702



	haracteristics in this Request	Code	Code
Code	Description	Type	Category
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-09-CM
534.1	Acute gastrojejunal ulcer with perforation	DX	ICD-09-CM
534.10	Acute gastrojejunal ulcer with perforation, without mention of obstruction	DX	ICD-09-CM
534.11	Acute gastrojejunal ulcer with perforation and obstruction	DX	ICD-09-CM
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	DX	ICD-09-CM
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-09-CM
534.30	Acute gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
534.31	Acute gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-09-CM
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	DX	ICD-09-CM
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	DX	ICD-09-CM
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	DX	ICD-09-CM
534.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction	DX	ICD-09-CM
534.51	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	DX	ICD-09-CM
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	DX	ICD-09-CM
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	DX	ICD-09-CM
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	DX	ICD-09-CM
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	DX	ICD-09-CM
534.70	Chronic gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
534.71	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
534.9	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	DX	ICD-09-CM
534.90	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage, perforation, or obstruction	DX	ICD-09-CM
534.91	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	DX	ICD-09-CM
535.00	Acute gastritis without mention of hemorrhage	DX	ICD-09-CM
535.01	Acute gastritis with hemorrhage	DX	ICD-09-CM
535.10	Atrophic gastritis without mention of hemorrhage	DX	ICD-09-CM
535.11	Atrophic gastritis with hemorrhage	DX	ICD-09-CM
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	DX	ICD-09-CM
535.21	Gastric mucosal hypertrophy with hemorrhage	DX	ICD-09-CM
535.30	Alcoholic gastritis without mention of hemorrhage	DX	ICD-09-CM
535.31	Alcoholic gastritis with hemorrhage	DX	ICD-09-CM
535.40	Other specified gastritis without mention of hemorrhage	DX	ICD-09-CM
535.41	Other specified gastritis with hemorrhage	DX	ICD-09-CM
535.50	Unspecified gastritis and gastroduodenitis without mention of hemorrhage	DX	ICD-09-CM
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	DX	ICD-09-CM
535.60	Duodenitis without mention of hemorrhage	DX	ICD-09-CM
535.61	Duodenitis with hemorrhage	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 684 of 702



		Code	Code
Code	Description	Type	Category
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	DX	ICD-09-CM
562.00	Diverticulosis of small intestine (without mention of hemorrhage)	DX	ICD-09-CM
562.01	Diverticulitis of small intestine (without mention of hemorrhage)	DX	ICD-09-CM
562.02	Diverticulosis of small intestine with hemorrhage	DX	ICD-09-CM
562.03	Diverticulitis of small intestine with hemorrhage	DX	ICD-09-CM
562.10	Diverticulosis of colon (without mention of hemorrhage)	DX	ICD-09-CM
562.11	Diverticulitis of colon (without mention of hemorrhage)	DX	ICD-09-CM
562.12	Diverticulosis of colon with hemorrhage	DX	ICD-09-CM
562.13	Diverticulitis of colon with hemorrhage	DX	ICD-09-CM
568.81	Hemoperitoneum (nontraumatic)	DX	ICD-09-CM
569.3	Hemorrhage of rectum and anus	DX	ICD-09-CM
569.85	Angiodysplasia of intestine with hemorrhage	DX	ICD-09-CM
578.0	Hematemesis	DX	ICD-09-CM
578.1	Blood in stool	DX	ICD-09-CM
578.9	Hemorrhage of gastrointestinal tract, unspecified	DX	ICD-09-CM
593.81	Vascular disorders of kidney	DX	ICD-09-CM
599.7	Hematuria	DX	ICD-09-CM
599.70	Hematuria, unspecified	DX	ICD-09-CM
599.71	Gross hematuria	DX	ICD-09-CM
599.72	Microscopic hematuria	DX	ICD-09-CM
623.8	Other specified noninflammatory disorder of vagina	DX	ICD-09-CM
626.2	Excessive or frequent menstruation	DX	ICD-09-CM
626.6	Metrorrhagia	DX	ICD-09-CM
719.1	Hemarthrosis	DX	ICD-09-CM
719.10	Hemarthrosis, site unspecified	DX	ICD-09-CM
719.11	Hemarthrosis, shoulder region	DX	ICD-09-CM
719.12	Hemarthrosis, upper arm	DX	ICD-09-CM
719.13	Hemarthrosis, forearm	DX	ICD-09-CM
719.14	Hemarthrosis, hand	DX	ICD-09-CM
719.15	Hemarthrosis, pelvic region and thigh	DX	ICD-09-CM
719.16	Hemarthrosis, lower leg	DX	ICD-09-CM
719.17	Hemarthrosis, ankle and foot	DX	ICD-09-CM
719.18	Hemarthrosis, other specified site	DX	ICD-09-CM
719.19	Hemarthrosis, multiple sites	DX	ICD-09-CM
784.7	Epistaxis	DX	ICD-09-CM
784.8	Hemorrhage from throat	DX	ICD-09-CM
786.3	Hemoptysis	DX	ICD-09-CM
790.92	Abnormal coagulation profile	DX	ICD-09-CM
852.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	DX	ICD-09-CM
852.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound,	DX	ICD-09-CM
	unspecified state of consciousness		
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 685 of 702



Code	Description	Code	Code
	·	Туре	Category
852.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	DX	ICD-09-CM
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	DX	ICD-09-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	DX	ICD-09-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	DX	ICD-09-CM
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	DX	ICD-09-CM
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	DX	ICD-09-CM
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	DX	ICD-09-CM
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	DX	ICD-09-CM
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	ICD-09-CM
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	DX	ICD-09-CM
852.23	Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	DX	ICD-09-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	DX	ICD-09-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	DX	ICD-09-CM
852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	DX	ICD-09-CM
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	DX	ICD-09-CM
852.4	Extradural hemorrhage following injury without mention of open intracranial wound	DX	ICD-09-CM
852.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	DX	ICD-09-CM
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	DX	ICD-09-CM
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	DX	ICD-09-CM
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	DX	ICD-09-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	DX	ICD-09-CM

cder\_mpl2p\_wp047 Page 686 of 702



Suscinic (	Characteristics in this Request	Code	Code
Code	Description	Type	Category
852.45	Extradural hemorrhage following injury, without mention of open intracranial wound,	DX	ICD-09-CM
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		
	conscious level		
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of	DX	ICD-09-CM
052.40	consciousness of unspecified duration	DV	ICD 00 CM
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	DX	ICD-09-CM
853.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound	DX	ICD-09-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	DX	ICD-10-CM
D62	Acute posthemorrhagic anemia	DX	ICD-10-CM
D64.9	Anemia, unspecified	DX	ICD-10-CM
131.2	Hemopericardium, not elsewhere classified	DX	ICD-10-CM
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	DX	ICD-10-CM
160.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	DX	ICD-10-CM
160.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	DX	ICD-10-CM
160.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	DX	ICD-10-CM
160.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	DX	ICD-10-CM
160.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	DX	ICD-10-CM
160.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	DX	ICD-10-CM
160.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	DX	ICD-10-CM
160.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	DX	ICD-10-CM
160.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	DX	ICD-10-CM
160.4	Nontraumatic subarachnoid hemorrhage from basilar artery	DX	ICD-10-CM
160.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	DX	ICD-10-CM
160.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	DX	ICD-10-CM
160.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	DX	ICD-10-CM
160.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	DX	ICD-10-CM
160.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	DX	ICD-10-CM
160.8	Other nontraumatic subarachnoid hemorrhage	DX	ICD-10-CM
160.9	Nontraumatic subarachnoid hemorrhage, unspecified	DX	ICD-10-CM
161.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	DX	ICD-10-CM
161.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	DX	ICD-10-CM
161.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	DX	ICD-10-CM
161.3	Nontraumatic intracerebral hemorrhage in brain stem	DX	ICD-10-CM
161.4	Nontraumatic intracerebral hemorrhage in cerebellum	DX	ICD-10-CM
161.5	Nontraumatic intracerebral hemorrhage, intraventricular	DX	ICD-10-CM
161.6	Nontraumatic intracerebral hemorrhage, multiple localized	DX	ICD-10-CM
161.8	Other nontraumatic intracerebral hemorrhage	DX	ICD-10-CM
161.9	Nontraumatic intracerebral hemorrhage, unspecified	DX	ICD-10-CM
162.00	Nontraumatic subdural hemorrhage, unspecified	DX	ICD-10-CM
162.01	Nontraumatic acute subdural hemorrhage	DX	ICD-10-CM
162.02	Nontraumatic subacute subdural hemorrhage	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 687 of 702



Daseille C	naracteristics in this Request	Code	Code
Code	Description	Type	Category
162.03	Nontraumatic chronic subdural hemorrhage	DX	ICD-10-CM
162.1	Nontraumatic extradural hemorrhage	DX	ICD-10-CM
162.9	Nontraumatic intracranial hemorrhage, unspecified	DX	ICD-10-CM
185.01	Esophageal varices with bleeding	DX	ICD-10-CM
185.11	Secondary esophageal varices with bleeding	DX	ICD-10-CM
K20.0	Eosinophilic esophagitis	DX	ICD-10-CM
K20.8	Other esophagitis	DX	ICD-10-CM
K20.9	Esophagitis, unspecified	DX	ICD-10-CM
K21.0	Gastro-esophageal reflux disease with esophagitis	DX	ICD-10-CM
K22.6	Gastro-esophageal laceration-hemorrhage syndrome	DX	ICD-10-CM
K22.8	Other specified diseases of esophagus	DX	ICD-10-CM
K25.0	Acute gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.1	Acute gastric ulcer with perforation	DX	ICD-10-CM
K25.2	Acute gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K25.3	Acute gastric ulcer without hemorrhage or perforation	DX	ICD-10-CM
K25.4	Chronic or unspecified gastric ulcer with hemorrhage	DX	ICD-10-CM
K25.5	Chronic or unspecified gastric ulcer with perforation	DX	ICD-10-CM
K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K25.7	Chronic gastric ulcer without hemorrhage or perforation	DX	ICD-10-CM
K25.9	Gastric ulcer, unspecified as acute or chronic, without hemorrhage or perforation	DX	ICD-10-CM
K26.0	Acute duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.1	Acute duodenal ulcer with perforation	DX	ICD-10-CM
K26.2	Acute duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.3	Acute duodenal ulcer without hemorrhage or perforation	DX	ICD-10-CM
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage	DX	ICD-10-CM
K26.5	Chronic or unspecified duodenal ulcer with perforation	DX	ICD-10-CM
K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K26.7	Chronic duodenal ulcer without hemorrhage or perforation	DX	ICD-10-CM
K26.9	Duodenal ulcer, unspecified as acute or chronic, without hemorrhage or perforation	DX	ICD-10-CM
K27.0	Acute peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.1	Acute peptic ulcer, site unspecified, with perforation	DX	ICD-10-CM
K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K27.3	Acute peptic ulcer, site unspecified, without hemorrhage or perforation	DX	ICD-10-CM
K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	DX	ICD-10-CM
K27.5	Chronic or unspecified peptic ulcer, site unspecified, with perforation	DX	ICD-10-CM
K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	DX	ICD-10-CM
K27.7	Chronic peptic ulcer, site unspecified, without hemorrhage or perforation	DX	ICD-10-CM
K27.9	Peptic ulcer, site unspecified, unspecified as acute or chronic, without hemorrhage or perforation	DX	ICD-10-CM
K28.0	Acute gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.1	Acute gastrojejunal ulcer with perforation	DX	ICD-10-CM
K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K28.3	Acute gastrojejunal ulcer without hemorrhage or perforation	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 688 of 702



Dascillic C	naracteristics in this Request	Code	Code
Code	Description	Type	Category
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	DX	ICD-10-CM
K28.5	Chronic or unspecified gastrojejunal ulcer with perforation	DX	ICD-10-CM
K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	DX	ICD-10-CM
K28.7	Chronic gastrojejunal ulcer without hemorrhage or perforation	DX	ICD-10-CM
K28.9	Gastrojejunal ulcer, unspecified as acute or chronic, without hemorrhage or perforation	DX	ICD-10-CM
K29.00	Acute gastritis without bleeding	DX	ICD-10-CM
K29.01	Acute gastritis with bleeding	DX	ICD-10-CM
K29.20	Alcoholic gastritis without bleeding	DX	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	DX	ICD-10-CM
K29.30	Chronic superficial gastritis without bleeding	DX	ICD-10-CM
K29.31	Chronic superficial gastritis with bleeding	DX	ICD-10-CM
K29.40	Chronic atrophic gastritis without bleeding	DX	ICD-10-CM
K29.41	Chronic atrophic gastritis with bleeding	DX	ICD-10-CM
K29.50	Unspecified chronic gastritis without bleeding	DX	ICD-10-CM
K29.51	Unspecified chronic gastritis with bleeding	DX	ICD-10-CM
K29.60	Other gastritis without bleeding	DX	ICD-10-CM
K29.61	Other gastritis with bleeding	DX	ICD-10-CM
K29.70	Gastritis, unspecified, without bleeding	DX	ICD-10-CM
K29.71	Gastritis, unspecified, with bleeding	DX	ICD-10-CM
K29.80	Duodenitis without bleeding	DX	ICD-10-CM
K29.81	Duodenitis with bleeding	DX	ICD-10-CM
K29.90	Gastroduodenitis, unspecified, without bleeding	DX	ICD-10-CM
K29.91	Gastroduodenitis, unspecified, with bleeding	DX	ICD-10-CM
K31.811	Angiodysplasia of stomach and duodenum with bleeding	DX	ICD-10-CM
K55.21	Angiodysplasia of colon with hemorrhage	DX	ICD-10-CM
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction	DX	ICD-10-CM
K57.00	Diverticulitis of small intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.10	Diverticulosis of small intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.12	Diverticulitis of small intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.20	Diverticulitis of large intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.32	Diverticulitis of large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.40	Diverticulitis of both small and large intestine with perforation and abscess without bleeding	DX	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding	DX	ICD-10-CM
K57.50	Diverticulosis of both small and large intestine without perforation or abscess without bleeding	DX	ICD-10-CM
K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 689 of 702



		Code	Code
Code	Description	Туре	Category
K57.52	Diverticulitis of both small and large intestine without perforation or abscess without	DX	ICD-10-CM
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding	DX	ICD-10-CM
K57.80	Diverticulitis of intestine, part unspecified, with perforation and abscess without bleeding	DX	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	DX	ICD-10-CM
K57.90	Diverticulosis of intestine, part unspecified, without perforation or abscess without bleeding	DX	ICD-10-CM
K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with bleeding	DX	ICD-10-CM
K57.92	Diverticulitis of intestine, part unspecified, without perforation or abscess without bleeding	DX	ICD-10-CM
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding	DX	ICD-10-CM
K62.5	Hemorrhage of anus and rectum	DX	ICD-10-CM
K64.0	First degree hemorrhoids	DX	ICD-10-CM
K64.1	Second degree hemorrhoids	DX	ICD-10-CM
K64.2	Third degree hemorrhoids	DX	ICD-10-CM
K64.3	Fourth degree hemorrhoids	DX	ICD-10-CM
K64.4	Residual hemorrhoidal skin tags	DX	ICD-10-CM
K64.5	Perianal venous thrombosis	DX	ICD-10-CM
K64.8	Other hemorrhoids	DX	ICD-10-CM
K64.9	Unspecified hemorrhoids	DX	ICD-10-CM
K66.1	Hemoperitoneum	DX	ICD-10-CM
K92.0	Hematemesis	DX	ICD-10-CM
K92.1	Melena	DX	ICD-10-CM
K92.2	Gastrointestinal hemorrhage, unspecified	DX	ICD-10-CM
M25.00	Hemarthrosis, unspecified joint	DX	ICD-10-CM
M25.011	Hemarthrosis, right shoulder	DX	ICD-10-CM
M25.012	Hemarthrosis, left shoulder	DX	ICD-10-CM
M25.019	Hemarthrosis, unspecified shoulder	DX	ICD-10-CM
M25.021	Hemarthrosis, right elbow	DX	ICD-10-CM
M25.022	Hemarthrosis, left elbow	DX	ICD-10-CM
M25.029	Hemarthrosis, unspecified elbow	DX	ICD-10-CM
M25.031	Hemarthrosis, right wrist	DX	ICD-10-CM
M25.032	Hemarthrosis, left wrist	DX	ICD-10-CM
M25.039	Hemarthrosis, unspecified wrist	DX	ICD-10-CM
M25.041	Hemarthrosis, right hand	DX	ICD-10-CM
M25.042	Hemarthrosis, left hand	DX	ICD-10-CM
M25.049	Hemarthrosis, unspecified hand	DX	ICD-10-CM
M25.051	Hemarthrosis, right hip	DX	ICD-10-CM
M25.052	Hemarthrosis, left hip	DX	ICD-10-CM
M25.059	Hemarthrosis, unspecified hip	DX	ICD-10-CM
M25.061	Hemarthrosis, right knee	DX	ICD-10-CM
M25.062	Hemarthrosis, left knee	DX	ICD-10-CM
M25.069	Hemarthrosis, unspecified knee	DX	ICD-10-CM
M25.071	Hemarthrosis, right ankle	DX	ICD-10-CM
M25.072	Hemarthrosis, left ankle	DX	ICD-10-CM
14123.072			

cder\_mpl2p\_wp047 Page 690 of 702



	naracteristics in this Request	Code	Code
Code	Description	Туре	Category
M25.074	Hemarthrosis, right foot	DX	ICD-10-CM
M25.075	Hemarthrosis, left foot	DX	ICD-10-CM
M25.076	Hemarthrosis, unspecified foot	DX	ICD-10-CM
M25.08	Hemarthrosis, other specified site	DX	ICD-10-CM
N28.0	Ischemia and infarction of kidney	DX	ICD-10-CM
N89.8	Other specified noninflammatory disorders of vagina	DX	ICD-10-CM
N92.0	Excessive and frequent menstruation with regular cycle	DX	ICD-10-CM
N92.1	Excessive and frequent menstruation with irregular cycle	DX	ICD-10-CM
R04.0	Epistaxis	DX	ICD-10-CM
R04.1	Hemorrhage from throat	DX	ICD-10-CM
R31.0	Gross hematuria	DX	ICD-10-CM
R31.1	Benign essential microscopic hematuria	DX	ICD-10-CM
R31.21	Asymptomatic microscopic hematuria	DX	ICD-10-CM
R31.29	Other microscopic hematuria	DX	ICD-10-CM
R31.9	Hematuria, unspecified	DX	ICD-10-CM
R58	Hemorrhage, not elsewhere classified	DX	ICD-10-CM
R79.1	Abnormal coagulation profile	DX	ICD-10-CM
S06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial	DX	ICD-10-CM
S06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre- existing conscious level, initial encounter	DX	ICD-10-CM
S06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre- existing conscious level with patient surviving, initial encounter	DX	ICD-10-CM
S06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	DX	ICD-10-CM
S06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	DX	ICD-10-CM
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.5X1A	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	DX	ICD-10-CM
S06.5X2A	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	DX	ICD-10-CM
S06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	DX	ICD-10-CM
S06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	DX	ICD-10-CM
S06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	DX	ICD-10-CM

cder\_mpl2p\_wp047 Page 691 of 702



		Code	Code
Code	Description	Type	Category
S06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without	DX	ICD-10-CM
	return to pre-existing conscious level with patient surviving, initial encounter		
S06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to	DX	ICD-10-CM
	brain injury before regaining consciousness, initial encounter		
S06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to	DX	ICD-10-CM
	other cause before regaining consciousness, initial encounter		
S06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial	DX	ICD-10-CM
	encounter		
S06.6X0A	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	DX	ICD-10-CM
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial	DX	ICD-10-CM
	encounter		
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes,	DX	ICD-10-CM
	initial encounter		
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59	DX	ICD-10-CM
	minutes, initial encounter		
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial	DX	ICD-10-CM
	encounter		
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with	DX	ICD-10-CM
	return to pre-existing conscious level, initial encounter		
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours	DX	ICD-10-CM
	without return to pre-existing conscious level with patient surviving, initial encounter		
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death	DX	ICD-10-CM
	due to brain injury prior to regaining consciousness, initial encounter		
S06.6X8A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death	DX	ICD-10-CM
	due to other cause prior to regaining consciousness, initial encounter		
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration,	DX	ICD-10-CM
	initial encounter		_

cder\_mpl2p\_wp047 Page 692 of 702



Appendix I. Evaluation Windows Used to Define Baseline Characteristics in this Request

Characteristic	Evaluation Window	Care Settings <sup>1</sup>
KEY: Highlighted = Table 1, not in Propensi	ty Score (PS)	
Age (continuous)	Index date	
Age-group		
21-49	Index date	
50-64	Index date	
Sex		
Female	Index date	
Male	Index date	
Other	Index date	
Race/ethnicity		
American Indian or Alaska Native	Index date	
Asian	Index date	
Black or African American	Index date	
Native Hawaiian or Other Pacific Islander	Index date	
White	Index date	
Unknown	Index date	
Year		
2010	Index date	
2011	Index date	
2012	Index date	
2013	Index date	
2014	Index date	
2015	Index date	
2016	Index date	
2017	Index date	
2018	Index date	
2019	Index date	
2020	Index date	
2021	Index date	
Medical comorbidities	macx date	
Diabetes	-183 to 0	Any
Hypercholesterolemia	-183 to 0	Any
Hypertension	-183 to 0	Any
Kidney failure - Chronic	-183 to 0	Any
Kidney failure - Acute	-183 to 0	Any
Obesity	-183 to 0	Any
Peptic ulcer disease	-183 to 0	Any
Nicotine dependency	-183 to 0	Any
Hospitalized AMI (past 0-30 days)	-30 to 0	IPP or IPS
Hospitalized AMI (past 31-183 days)	-183 to -31	IPP or IPS
Coronary revascularization	-183 to 0	Any
Hospitalized heart failure	-183 to 0	IP* or ED*
Outpatient heart failure	-183 to 0	AV* or OA*
Other ischemic heart disease	-183 to 0	
		Any IPP
Hospitalized stroke (past 0-30 days)	-30 to 0	
Hospitalized stroke (past 31-183 days)	-183 to -31	IPP
Transient ischemic attack	-183 to 0	Any

cder\_mpl2p\_wp047 Page 693 of 702



Appendix I. Evaluation Windows Used to Define Baseline Characteristics in this Request

Characteristic	Evaluation Window	Care Settings <sup>1</sup>
Cardioversion	-183 to 0	Any
Cardioablation	-183 to 0	Any
Hospitalized for bleeding	-183 to 0	IPP
Medication use		
Estrogen replacement	-183 to 0	-
H2-antagonist	-183 to 0	-
NSAIDs	-183 to 0	-
Proton pump inhibitors	-183 to 0	-
SSRI antidepressants	-183 to 0	-
Insulin	-183 to 0	-
Metformin (Biguanide)	-183 to 0	-
Sulfonylureas	-183 to 0	-
Other Diabetes Medications	-183 to 0	-
ACEI/ARB	-183 to 0	-
Antiarrhythmics	-183 to 0	-
Anti-coagulant (injectable)	-183 to 0	-
Anti-platelets	-183 to 0	-
Beta-blockers	-183 to 0	-
Calcium channel blockers	-183 to 0	-
Digoxin	-183 to 0	-
Diuretics - Loop	-183 to 0	-
Diuretics - Potassium sparing	-183 to 0	-
Diuretics - Thiazide	-183 to 0	_
Nitrates	-183 to 0	_
Statins	-183 to 0	-
Fibrates	-183 to 0	-
Amiodarone	-183 to 0	_
Dronedarone	-183 to 0	-
CHA <sub>2</sub> DS <sub>2</sub> -VASc score (continuous)	-183 to 0	
CHA <sub>2</sub> DS <sub>2</sub> -VASc score (continuous)	103 to 0	
	102 +- 0	
0	-183 to 0	-
1	-183 to 0	-
2	-183 to 0	-
3	-183 to 0	-
4	-183 to 0	-
5+	-183 to 0	-
HAS-BLED score (continuous)	-183 to 0	
HAS-BLED score (categorical)		
0	-183 to 0	-
1	-183 to 0	-
2	-183 to 0	-
3+	-183 to 0	-
lealth care utilization		
Number of inpatient hospital stays	-183 to 0	IP*
Number of ambulatory visits	-183 to 0	AV*
Number of emergency room encounters		
0 visit	-30 to 0	ED*
At least 1 visit	-30 to 0	ED*

cder\_mpl2p\_wp047 Page 694 of 702



## Appendix I. Evaluation Windows Used to Define Baseline Characteristics in this Request

Characteristic	Evaluation Window	Care Settings <sup>1</sup>
2+ visits	-30 to 0	ED*
Number of emergency room encounters		
0 visit	-183 to -31	ED*
At least 1 visit	-183 to -31	ED*
2+ visits	-183 to -31	ED*
Number of unique generics dispensed	-183 to 0	-

cder\_mpl2p\_wp047 Page 695 of 702



## Appendix J. Specifications Defining Parameters in this Request

The Center for Drug Evaluation and Research has requested execution of the Cohort Identification and Descriptive AN/Alysis (CIDA) tool v11.3.0 with additional programming to compare risk of stroke and bleeding associated with use of apixaban and dabigatran in those aged 64 years or younger in the Sentinel Distributed Database (SDD).

**Query period:** 10/19/2010 - 02/28/2022

Coverage requirement: Medical and drug coverage

Pre-index enrollment requirement: 183 days
Post-Index Enrollment Requirement: None
Enrollment gap: 45 days

**Age groups:** 21-49, 50-64 years

Stratifications: None
Censor Output Categorization: None

Envelope macro: No reclassification

Freeze data: Yes

Additional programming needed: Risk scores, daily dose requirement, custom forest plots, custom weight distribution output

Output Denominator: No

	Comparison 1		Comparison 2		Comparison 3		Comparison 4	
	Overall		0\	verall	Overall		Overall	
Drug/Exposure								
Exposure/Comparator	Dabigatran,	Apixaban,	Dabigatran,	Apixaban,	Dabigatran,	Apixaban,	Dabigatran,	Apixaban,
Exposure/Comparator	150 mg	5 mg	150 mg	5 mg	150 mg	5 mg	150 mg	5 mg
Daily Dose Requirement	Twice daily	Twice daily	Twice daily	Twice daily	Twice daily	Twice daily	Twice daily	Twice daily
Incident w/ Respect to:	Dabigatran,	Apixaban,	Dabigatran,	Apixaban,	Dabigatran,	Apixaban,	Dabigatran,	Apixaban,
incident w/ Kespect to.	150 mg	5 mg	150 mg	5 mg	150 mg	5 mg	150 mg	5 mg
Incidence Assessment	Dispensing date or days supply		Dispensing date or days supply		Dispensing date or days supply		Dispensing date or days supply	
Washout (days)	183		183		183		183	
Cohort Definition	First valid incident exposure episode		First valid incident exposure episode		First valid incident exposure episode		First valid incident exposure episode	
	i ii se valia iliciaciie	. exposure episode	Thist valid including exposure episode		That valid including exposure episode		Thist valid including exposure episode	
Stockpiling overlapping	33	3%	33%		3	3%	3	33%
Episode Gap	3	3	3		3		3	
<b>Episode Extension Period</b>	3	3	3		3		3	
Minimum Episode Duration	1	1	1		1		1	
Maximum Episode Duration	n None		None		None		None	
Minimum Days Supplied	-	1	1		1		1	
Minimum cumulative dose	NI	/A	,	N/A	N/A		N/A	
of index medication	IN,			1/1	,	1/1		

cder\_mpl2p\_wp047 Page 696 of 702



Appendix J. Specifications De	efining Parameters in this Reques	st			
	Comparison 1	Comparison 2	Comparison 3	Comparison 4	
	Overall	Overall	Overall	Overall	
Maximum cumulative dose	N/A	N/A	N/A	N/A	
of index medication	N/A	IN/A	IN/A	IN/A	
Evaluation period for					
cumulative dose	N/A	N/A	N/A	N/A	
determination					
Minimum Current Filled	N/A	N/A	N/A	N/A	
Daily Dose of index	.,,,,	14,71	14//	1,77	
Maximum Current Filled	N/A	N/A	N/A	N/A	
Daily Dose of index	,	′	<u>'</u>	<b>'</b>	
Forced supply to attach to	N/A	N/A	N/A	N/A	
dispensings	·			· ·	
Censor Criteria	Death,	Death,	Death,	Death,	
	DP end date,	DP end date,	DP end date,	DP end date,	
	Disenrollment,	Disenrollment,	Disenrollment,	Disenrollment,	
	Event,	Event,	Event,	Event,	
	End of exposure episode,	End of exposure episode,	End of exposure episode,	End of exposure episode,	
	Comparator drug dispensing,	Comparator drug dispensing,	Comparator drug dispensing,	Comparator drug dispensing,	
	Low-dose of current exposure,	Low-dose of current exposure,	Low-dose of current exposure,	Low-dose of current exposure,	
	Warfarin dispensing,	Warfarin dispensing,	Warfarin dispensing,	Warfarin dispensing,	
	Edoxaban dispensing,	Edoxaban dispensing,	Edoxaban dispensing,	Edoxaban dispensing,	
	Rivaroxaban dispensing,	Rivaroxaban dispensing,	Rivaroxaban dispensing,	Rivaroxaban dispensing,	
	Kidney transplant,	Kidney transplant,	Kidney transplant,	Kidney transplant,	
	Dialysis,	Dialysis,	Dialysis,	Dialysis,	
	IS encounter,	IS encounter,	IS encounter,	IS encounter,	
	Major extracranial bleeding,	Thromboembolic stroke,	Thromboembolic stroke,	Thromboembolic stroke,	
	Gastrointestinal hemorrhage,	Gastrointestinal hemorrhage,	Major extracranial bleeding,	Major extracranial bleeding,	
	Intracranial hemorrhage	Intracranial hemorrhage	Intracranial hemorrhage	Gastrointestinal hemorrhage	
Create Baseline Table?	Yes	Yes	Yes	Yes	
clusion/Exclusion					
Pre-Existing Condition	Atrial fibrillation or flutter	Atrial fibrillation or flutter	Atrial fibrillation or flutter	Atrial fibrillation or flutter	

cder\_mpl2p\_wp047 Page 697 of 702



Appendix J. Specifications Def	fining Parameters	s in this Request	<u> </u>					
Include/Exclude	Include		Include		ı	nclude	Include	
Care Setting/PDX	Any		Any		Any			Any
Lookback Period	-183, 0			-183, 0		-183, 0		-183, 0
Number of instances the criteria should be found in evaluation period	nould be found in ≥ 1		≥1		≥1		≥1	
	Compar Over		Comparison 2 Overall		Comparison 3 Overall		Comparison 4 Overall	
Pre-Existing Condition	Pre-Existing Condition  Low-dose Low-dose dabigatran, apixaban, rivaroxaban, apixaban, dabigatran, edoxaban, edoxaban, warfarin warfarin		Low-dose dabigatran, rivaroxaban, apixaban, edoxaban, warfarin	Low-dose apixaban, rivaroxaban, dabigatran, edoxaban, warfarin	Low-dose dabigatran, rivaroxaban, apixaban, edoxaban, warfarin	Low-dose apixaban, rivaroxaban, dabigatran, edoxaban, warfarin	Low-dose dabigatran, rivaroxaban, apixaban, edoxaban, warfarin	Low-dose apixaban, rivaroxaban, dabigatran, edoxaban, warfarin
Include/Exclude	Exclu	ude	Exclude		Exclude		Exclude	
Lookback Period	ookback Period -183, 0		-183, 0		-183, 0		-183, 0	
Lookback period to define condition looks for evidence of a date or evidence of an interval	Dispensing date	or days supply	Dispensing d	late or days supply	Dispensing c	late or days supply	Dispensing	date or days supply
Number of instances the criteria should be found in evaluation period	≥1	1	≥1		≥1		≥1	
Minimum Days Supplied	1		1		1		1	
Minimum cumulative dose	N/A	A		N/A	N/A		N/A	
Minimum average filled daily dose	N/A	A	N/A		N/A		N/A	
Maximum average filled daily dose	N/A		N/A		N/A		N/A	
Minimum current filled daily dose	d daily N/A		N/A		N/A		N/A	
Maximum current filled daily dose	N/A	A		N/A		N/A		N/A

cder\_mpl2p\_wp047



Appendix J. Specifications De	fining Parameters in this Reques	<u> </u>			
Forced supply to attach to dispensings	N/A	N/A	N/A	N/A	
Pre-Existing Condition	Institutional stay encounter	Institutional stay encounter	Institutional stay encounter	Institutional stay encounter	
Include/Exclude	Exclude	Exclude	Exclude	Exclude	
Lookback Period	0, 0	0, 0	0, 0	0, 0	
Number of instances the criteria should be found in evaluation period	≥1	≥1	≥1	≥1	
	Comparison 1	Comparison 2	Comparison 3	Comparison 4	
	Overall	Overall	Overall	Overall	
Pre-Existing Condition	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral valve disease, Valve replacement, Valve repair	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral valve disease, Valve replacement, Valve repair	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral valve disease, Valve replacement, Valve repair	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral valve disease, Valve replacement, Valve repair	
Include/Exclude	Exclude	Exclude	Exclude	Exclude	
Care Setting/PDX	Any, except AV/OA for dialysis				
Lookback Period	-183, 0	-183, 0	-183, 0	-183, 0	
Number of instances the criteria should be found in evaluation period Event/Outcome	≥1	≥1	≥1	≥1	
Event/Outcome	Thromboembolic stroke	Major Extracranial Bleeding <sup>1</sup>	Gastrointestinal hemorrhage <sup>2</sup>	Intracranial Hemorrhage	
Care Setting/PDX	IPP	IPP	IPP	IPP	
Washout (days)	0	0	0	0	
Event de-duplication	De-duplicates occurrences of the same event group on the same day	De-duplicates occurrences of the same event group on the same day	De-duplicates occurrences of the same event group on the same day	De-duplicates occurrences of the same event group on the same day	

cder\_mpl2p\_wp047



Appendix J. Specifications Defining Parameters in this Request								
	Comparison 1	Comparison 2	Comparison 3	Comparison 4				
	Overall	Overall	Overall	Overall				
Forced supply to attach to dispensings	N/A	N/A	N/A	N/A				
Risk Window Interval Start	N/A							
Blackout Period	1	1	1	1				

<sup>&</sup>lt;sup>1</sup>The major extracranial bleed outcome is defined as **a)** one code from "MEB\_1" tab in the primary inpatient position AND no code from "MEB\_trauma\_exclusion" on the same day OR **b)** one code from "MEB\_2" in the primary inpatient position AND one code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_trauma\_exclusion" on the same day

cder\_mpl2p\_wp047 Page 700 of 702

<sup>&</sup>lt;sup>2</sup>The gastrointestinal hemorrhage outcome is defined as **a)** one code from "GI\_1" tab in the primary inpatient position OR **b)** one code from "GI\_2" in the primary inpatient position AND one code from "GI\_1" in secondary or unspecified inpatient position on the same day

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360. NDC codes are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."



## Appendix K. Specifications for Propensity Score (PS) Models

The Center for Drug Evaluation and Research has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool with additional programming to compare risk of stroke and bleeding associated with use of apixaban and dabigatran in those aged 64 years or younger in the Sentinel Distributed Database (SDD).

	PS Models	Comparison					Analyses		
	Model	Comparison	EOI	REF	PS Model Label	PS Model Label (plus programming)	Analysis name 1	Analysis name 2	Analysis name 3
1		Dabigatran vs. Apixaban, Stroke	dab_stroke	api_stroke	dab_api_stroke	dab_api	dab_api_stroke_0	dab_api_stroke_1	dab_api_stroke_2.5
2		Dabigatran vs. Apixaban, Major Extracranial Bleeding	dab_meb	api_meb	dab_api_meb	dab_api	dab_api_meb_0	dab_api_meb_1	dab_api_meb_2.5
3		Dabigatran vs. Apixaban, Gastrointestinal Hemorrhage	dab_gi	api_gi	dab_api_gi	dab_api	dab_api_gi_0	dab_api_gi_1	dab_api_gi_2.5
4	Overall	Dabigatran vs. Apixaban, Intracranial Hemorrhage	dab_ich	api_ich	dab_api_ich	dab_api	dab_api_ich_0	dab_api_ich_1	dab_api_ich_2.5

cder\_mpl2p\_wp047 Page 701 of 702



## Appendix K. Specifications for Propensity Score (PS) Models

The Center for Drug Evaluation and Research has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool with additional programming to compare risk of stroke and bleeding associated with use of apixaban and dabigatran in those aged 64 years or younger in the Sentinel Distributed Database (SDD).

	Covariates	See
Score on ers		Appendix J
ty So ation eter		
ity nat	Firth Logistic Intercept	No
oe St	Corrected Method	
δ. a	High-dimensional Propensity	No
<u>a</u>	Score	

		Analysis Group
	Analysis name	All listed
ē	IP weight calculation	ATE
Sco		Stabilized
Propensity Score Analysis	Weight truncation?	- No
yen An		truncation
ρί		- 1st
		percentile
		truncation

		Analysis Group					
	Analysis name	All listed above					
S	Subgroups	Sex	Age Group (years)	CHA2DS2-VASc	HAS-BLED		
Subgroups	Sugroup Categories	Females, Males	21-49, 50- 64	0, 1, 2, 3, 4, 5+	0, 1, 2, 3+		
gqnS	Firth Logistic Intercept Corrected Method	No	No	No	No		
	Re-estimate Propensity Score	sity score will be re-	estimated				

cder\_mpl2p\_wp047 Page 702 of 702