

# 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 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\_wp017

#### Request ID: cder\_mpl2p\_wp017

**<u>Request Description</u>**: In this report we compared risk of stroke, intracranial hemorrhage, and bleeding outcomes associated with use of dabigatran, rivaroxaban, and apixaban in those aged 65 years or older in the Sentinel Distributed Database (SDD).

<u>Sentinel Routine Querying Module</u>: Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis tools, Version 8.0.3, with additional programming

**Data Source:** The study period spanned from October 19, 2010 to September 30, 2015. This request was distributed on December 20, 2019. See Appendix A for a list of the latest dates of available data for each Data Partner (DP).

<u>Study Design</u>: We identified individuals with incident use of dabigatran, rivaroxaban, or apixaban and evaluated the occurrence of thromboembolic stroke (stroke), intracranial hemorrhage (ICH), major extracranial bleeding (MEB), and GI bleeding (GIB) outcomes among patients aged 65 years or older. We then conducted a Propensity Score Analysis (PSA) comparing the three NOAC-NOAC comparisons (1:1 (Propensity Score (PS) matching). This study used a retrospective new-user cohort design. It is a Type 2 analysis using the Propensity Score Analysis module in the Query Request Package (QRP)

**Exposure and Comparator:** We defined exposures of interest as new use of standard dose rivaroxaban (20 mg once daily), dabigatran (150 mg twice daily), and apixaban (5 mg twice daily). The exposure drugs were defined using National Drug Codes (NDCs). For a list of generic names used to define the exposure and comparator drugs, please see Appendix B.

Outcomes of Interest: We defined the following outcomes of interest:

1. MEB was defined as one ICD-9-CM (International Classification of Diseases, 9th Revision, Clinical Modification) diagnosis code from "Major Extracranial Bleeding - List 1"(Appendix C) as primary diagnosis from inpatient encounter AND no code from "Major Extracranial Bleeding - List 3" OR (one ICD-9-CM diagnosis code from "Major Extracranial Bleeding - List 3" OR (one ICD-9-CM diagnosis code from "Major Extracranial Bleeding - List 3" OR (one ICD-9-CM diagnosis code from "Major Extracranial Bleeding - List 3" OR (one ICD-9-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").

2.GIB was defined as one ICD-9-CM diagnosis code from "Gastrointestinal Bleeding - List 1"(Appendix C) as primary diagnosis from inpatient encounter OR (one ICD-9-CM diagnosis code from "Gastrointestinal Bleeding - List 2" (Appendix C) as primary diagnosis from inpatient encounter AND one ICD-9-CM diagnosis code from "Gastrointestinal Bleeding - List 1" as secondary or unspecified diagnosis from inpatient encounter on the same day).

3. ICH and stroke were defined using ICD-9-CM diagnosis codes flagged as a primary diagnosis in an inpatient encounter. Patients were excluded from the analysis if they had evidence of the outcome on the day of exposure initiation or in the 183 days preceding exposure initiation. For a list of diagnosis codes used to define the outcomes, please see Appendix C.

**Cohort Eligibility Criteria:** We required patients aged 65 years or older to be enrolled in plans with both medical and drug coverage for at least 183 days before index dispensing, during which gaps in coverage of up to 45 days were allowed and treated as continuous enrollment. New use was defined as no use of apixaban, dabigatran, edoxaban, rivaroxaban, or warfarin in the 183 days period preceding the index dispensing. We included patients with evidence of atrial fibrillation in the 183 days preceding and including index date. We 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 any other NOAC or an institutional stay encounter on their index date. Inclusion and exclusion criteria were defined using NDCs, ICD-9-CM, and Current Procedural Terminology, Fourth Edition (CPT-4) codes. For a list of specific codes used to define cohort eligibility, please see Appendices D-E.



#### Overview for Request cder\_mpl2p\_wp017

**Follow-up:** We determined follow-up time based on the length of the exposure episodes and censored on prespecified criteria. 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 episodes 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 initiation of any other NOAC, low dose of the index NOAC, warfarin or edoxaban dispensing, 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. Please see Appendices D and F for a list of codes used to define censoring criteria.

**Baseline Covariates:** Please refer to Appendices G-J for a list of covariates, codes, and evaluation windows used to defined covariates.

**Propensity Score Estimation:** For each of the three NOAC NOAC comparison, we fit a logistic regression model separately for each of the four outcomes (stroke, MEB, GIB, ICH) to estimate the propensity score (PS) based on potential confounders outlined in Appendix J. The matching ratio for the PS was 1:1 and the matching caliper was 0.05. Patients in the exposed and comparator cohorts were nearest neighbor matched without replacement, meaning that each comparator patient was matched one time, at most, to an exposed patient. For each comparison, we used Cox proportional hazards regression model to estimate the adjusted hazard ratio and 95% confidence intervals for the unmatched analyses and unconditional and conditional matched analyses. Subgroup analyses for effect estimation included prior antiplatelet use in 183 days, age categories, sex, CHA<sub>2</sub>DS<sub>2</sub>-VASc and HAS-BLED score categories

#### See Appendices I and J for complete specifications for this request.

**Limitations:** 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



	Table of Contents
<u>CIDA Glossary</u>	List of terms and their definitions found in this report pertaining to Sentinel's Cohort Identification and
	Descriptive Analysis (CIDA) Module
PSA Glossary	List of terms and their definitions found in this report pertaining to Sentinel's Propensity Score Analysis
Table 4 a	(PSA) Tool
<u>Table 1a</u>	Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed
Tabla 1b	Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed
<u>Table 1b</u>	Database (SDD) between October 19, 2010 to September 30, 2015, After Matching
Table 1c	Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database
	(SDD) between October 19, 2010 to September 30, 2015, Before Matching
Table 1d	
10010 20	(SDD) between October 19, 2010 to September 30, 2015, After Matching
Table 1e	Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database
	(SDD) between October 19, 2010 to September 30, 2015, Before Matching
Table 1f	Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database
	(SDD) between October 19, 2010 to September 30, 2015, After Matching
Table 2	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
Table 3	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
	and Antiplatelet Use
<u>Table 4</u>	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
Tabla C	and Sex Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran in the Sentinel
<u>Table 5</u>	Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Users by Analysis Type
	and Age Group
<u>Table 6</u>	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
	and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
Table 7	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
	and HAS-BLED Score
<u>Table 8</u>	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 9</u>	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
T-1-1- 40	and Antiplatelet Use
	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
	and Sex
Table 11	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the
10010 11	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
	and Age Group
<u>Table 1</u> 2	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
	and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score



	Table of Contents
<u>Table 13</u>	Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
Table 14	Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 15</u>	Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use
<u> Table 16</u>	Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 17</u>	Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 18</u>	Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u>Table 19</u>	Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
<u> Table 20</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 21</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use
<u>Table 22</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 23</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 24</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u>Table 25</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 27</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use
<u>Table 28</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 29</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group



	Table of Contents	
<u>Table 30</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Sentinel Distributed Database (SDD) between October 19, 2010 to September and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	
<u>Table 31</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and HAS-BLED Score	-
<u>Table 32</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. A Sentinel Distributed Database (SDD) between October 19, 2010 to September 3	
<u>Table 33</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. A Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Antiplatelet Use	-
<u>Table 34</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. A Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Sex	
<u>Table 35</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. A Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Age Group	
<u>Table 36</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. A Sentinel Distributed Database (SDD) between October 19, 2010 to September 2 and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	
<u>Table 37</u>	Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. A Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and HAS-BLED Score	
<u>Table 38</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Da Sentinel Distributed Database (SDD) between October 19, 2010 to September 3	-
<u>Table 39</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Da Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Antiplatelet Use	-
<u>Table 40</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Da Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Sex	-
<u>Table 41</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Da Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Age Group	-
<u>Table 42</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Da Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and CHA <sub>2</sub> DS <sub>2</sub> -VAScScore	
<u>Table 43</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. D Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and HAS-BLED Score	
<u>Table 44</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Ap Sentinel Distributed Database (SDD) between October 19, 2010 to September 3	
<u>Table 45</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Ap Sentinel Distributed Database (SDD) between October 19, 2010 to September 3 and Antiplatelet Use	
<u>Table 46</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. As Sentinel Distributed Database (SDD) between October 19, 2010 to September and Sex	



	Table of Contonta
	Table of Contents
<u>1able 47</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 48</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u>Table 49</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
<u> Table 50</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 51</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use
<u>Table 52</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 53</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 54</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u>Table 55</u>	Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
<u> Table 56</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 57</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use
<u>Table 58</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 59</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 60</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u> Table 61</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
<u> Table 62</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 63</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use



	Table of Contents
Table 64	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the
	Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 65</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 66</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u>Table 67</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
<u> Table 68</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type
<u>Table 69</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use
<u>Table 70</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex
<u>Table 71</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group
<u>Table 72</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA <sub>2</sub> DS <sub>2</sub> -VASc Score
<u>Table 73</u>	Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score
Figure 1a	Histograms Depicting Propensity Score Distributions of Rivaroxaban and Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching
Figure 1b	Histogram Depicting Propensity Score Distributions of Rivaroxaban and Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, After Matching
Figure 2a	Histogram Depicting Propensity Score Distributions of Rivaroxaban and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching
Figure 2b	Histogram Depicting Propensity Score Distributions of Rivaroxaban and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, After Matching
Figure 3a	Histogram Depicting Propensity Score Distributions of Dabigatran and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching
Figure 3b	Histogram Depicting Propensity Score Distributions of Dabigatran and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, After Matching
<u>Figure 4a</u>	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort
<u>Figure 4b</u>	Kaplan Meier Survival Curves of Informative Events and Follow-up Time for for Rivaroxaban and Dabigatran and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort



	Table of Contents
Figure 4c	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of
	Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
Figure 4d	Kaplan Meier Survival Curves of Informative Events and Follow-up Time for for Rivaroxaban and
	Apixaban and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between
	October 19, 2010 to September 30, 2015, Conditional Matched Cohort
Figure 4e	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of
	Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
<u>Figure 4f</u>	Kaplan Meier Survival Curves of Informative Events and Follow-up Time for for Dabigatran and Apixaban
	and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to Sentember 20, 2015. Conditional Matched Cohort
<b>F</b> igure <b>F</b>	2010 to September 30, 2015, Conditional Matched Cohort
Figure 5a	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
Figure 5b	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of
<u>ingule 55</u>	Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
Figure 5c	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of
	Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
Figure 5d	Kaplan Meier Survival Curves of Events and Follow-up Time for Apixaban and Dabigatran and Risk of
	Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
Figure 5e	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of
	Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
Figure 5f	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Dabigatran and Risk of
	Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
Figure 6a	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of
	Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort
Figure Ch	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of
Figure 6b	Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
Figure 6c	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of
<u></u>	Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
Figure 6d	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of
	Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
Figure 6e	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of
	Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Unconditional Matched Cohort
Figure 6f	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of
	Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort



	Table of Contents
Figure 7a	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of
	Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort
Figure 7b	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of
	Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
Figure 7c	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of
	Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort
Figure 7d	Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of
	Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
<u>Figure 7e</u>	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of
	Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort
Figure 7f	Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of
	Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to
	September 30, 2015, Conditional Matched Cohort
<u>Appendix A</u>	Dates of Available Data for Each Data Partner (DP) up to Request End Date (September 30, 2015) as of
Appendix B	Query Distribution Date List of Generic and Brand Names of Medical Products Used to Define Exposures in this Request
<u>Appendix B</u> Appendix C	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and
_ <u>+- +</u>	Current Procedural Terminology, Fourth Edition (CPT-4), Diagnosis and Procedure Codes Used to Define
	Outcomes and Censoring Criteria in this Request
<u>Appendix D</u>	List of Generic an Brand Names of Medical Products Used to Define Exposure Incidence and Censoring
Appendix E	Criteria in this Request List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and
	Current Procedural Terminology, Fourth Edition (CPT-4) Diagnosis and Procdure Codes Used to Define
	Inclusion and Exclusion Criteria in this Request
<u>Appendix F</u>	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and
	Current Procedural Terminology, Fourth Edition (CPT-4) Diagnosis and Procedure Codes Used to Define Censoring Criteria in this Request
Appendix G	List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), Current
<u>Appendix C</u>	Procedural Terminology, Fourth Edition (CPT-4), and Healthcare Common Procedure Coding System
	(HCPCS) Diagnosis and Procedure Codes Used to Define Covariates in this Request
Appendix H	List of Names of Medical Products Used to Define Covariates in this Request
<u>Appendix I</u>	Baseline Covariate Groups Evaluated in this Request
<u>Appendix J</u>	Specifications Defining Parameters Used in this Request



### 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; 03:

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

**Switch Gap Inclusion Indicator - 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



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

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

1. Age (continuous)

2. Sex

- 3. Time period (i.e., monitoring period for sequential analyses)
- 4. Year of exposure
- 5. Comorbidity score
- 6. Medical utilization number of inpatient stays
- 7. Medical utilization number of institutional stays
- 8. Medical utilization number of emergency department visits
- 9. Medical utilization number of outpatient visits
- 10. Health care utilization number of other ambulatory encounters (e.g., telemedicine, email consults)
- 11. Drug utilization number of dispensings
- 12. Drug utilization number of unique generics dispensed
- 13. Drug Utilization number of unique drug classes dispensed

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

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

Mahalanobis Distance - provides a measure of balance across all variables while accounting for their correlation.

**Matching Caliper** - maximum allowed difference in propensity scores between treatment and control patients. Requester 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 ratio.

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

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

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

**Risk-set Level Data Return** - alternative to the patient-level data return approach. In this approach, the PSM tool will produce deidentified, risk-set level datasets instead of or in addition to individual-level output. Whereas each observation in the patientlevel 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



 Table 1a. Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

	Medical Product				Covariate Balance	
	Rivar	oxaban	Dabi	gatran		
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients (N)	110,113	100.0%	84,473	100.0%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	75.5	6.4	76.1	6.6	-0.590	-0.091
Age (years)	Number	Percent	Number	Percent		
65-74	56,862	51.6%	40,695	48.2%	3.465	0.069
75-85	43,527	39.5%	34,508	40.9%	-1.322	-0.027
85+	9,724	8.8%	9,270	11.0%	-2.143	-0.072
Sex						
Female	51,156	46.5%	40,824	48.3%	-1.870	-0.037
Male	58,957	53.5%	43,649	51.7%	1.870	0.037
Race <sup>2</sup>						
American Indian or Alaska Native	315	0.3%	224	0.3%	0.021	0.004
Asian	1,440	1.3%	1,361	1.6%	-0.303	-0.025
Black or African American	3,949	3.6%	2,992	3.5%	0.044	0.002
Unknown	3,394	3.1%	2,459	2.9%	0.171	0.010
White	101,015	91.7%	77,437	91.7%	0.067	0.002
Hispanic Origin	1,305	1.2%	1,116	1.3%	-0.136	-0.012
Year						
2010	-	0.0%	1,270	1.5%	-1.503	-
2011	149	0.1%	31,776	37.6%	-37.481	-1.091
2012	13,749	12.5%	23,083	27.3%	-14.840	-0.378
2013	31,382	28.5%	13,927	16.5%	12.013	0.291
2014	38,641	35.1%	9,432	11.2%	23.926	0.592
2015	26,192	23.8%	4,985	5.9%	17.885	0.520
CHA <sub>2</sub> DS <sub>2</sub> -VASc						
mean, standard deviation	3.8	1.5	3.9	1.5	-0.103	-0.067
0-1	3,766	3.4%	2,768	3.3%	0.143	0.008
2	18,605	16.9%	12,943	15.3%	1.574	0.043
3	27,766	25.2%	19,794	23.4%	1.784	0.042
4	26,827	24.4%	21,631	25.6%	-1.244	-0.029
5	17,526	15.9%	13,980	16.5%	-0.633	-0.017
>= 6	15,623	14.2%	13,357	15.8%	-1.624	-0.045
HAS-BLED	-					
mean, standard deviation	2.5	0.9	2.5	0.9	-0.031	-0.034
0-1	10,726	9.7%	7,779	9.2%	0.532	0.018
2	50,401	45.8%	37,972	45.0%	0.820	0.016
3	34,578	31.4%	26,850	31.8%	-0.383	-0.008
>= 4	14,408	13.1%	11,872	14.1%	-0.969	-0.028



 Table 1a. Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

Recorded History of:	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Acute myocardial infarction - Past 0-30 days	1,613	1.5%	1,003	1.2%	0.277	0.024
Acute myocardial infarction - Past 31-183	880	0.8%	692	0.8%	-0.020	-0.002
Jays	000	0.070	052	0.070	0.020	0.002
Cardioablation	2,335	2.1%	1,906	2.3%	-0.136	-0.009
Cardioversion	10,129	9.2%	8,099	9.6%	-0.389	-0.013
Coronary revascularization	16,265	14.8%	12,495	14.8%	-0.021	-0.001
Diabetes	35,515	32.3%	28,371	33.6%	-1.333	-0.028
Falls	5,260	4.8%	3,880	4.6%	0.184	0.009
Fractures	1,478	1.3%	1,132	1.3%	0.002	0.000
Heart failure - hospitalized	5,424	4.9%	4,314	5.1%	-0.181	-0.008
Heart failure - outpatient	24,279	22.0%	20,499	24.3%	-2.218	-0.053
Hypercholesterolemia	41,671	37.8%	33,068	39.1%	-1.302	-0.027
Hypertension	94,768	86.1%	73,079	86.5%	-0.447	-0.013
Kidney failure - acute	5,253	4.8%	3,746	4.4%	0.336	0.016
Kidney failure - chronic	9,705	8.8%	8,332	9.9%	-1.050	-0.036
Vicotine dependency	24,121	21.9%	14,997	17.8%	4.152	0.104
Dbesity	18,102	16.4%	11,356	13.4%	2.996	0.084
Other ischemic heart disease	48,516	44.1%	38,603	45.7%	-1.638	-0.033
Peptic ulcer disease	411	0.4%	330	0.4%	-0.017	-0.003
Prior hospitalized bleeding	723	0.7%	575	0.7%	-0.024	-0.003
Stroke - past 0-30 days	1,822	1.7%	1,440	1.7%	-0.050	-0.004
Stroke - past 31-183 days	1,343	1.2%	1,190	1.4%	-0.189	-0.017
Syncope	9,786	8.9%	7,432	8.8%	0.089	0.003
Fransient ischemic attack	6,700	6.1%	5,568	6.6%	-0.507	-0.021
Walker use	-	0.0%	-	0.0%	0.000	-
History of Use:						
Angiotensin-converting enzyme Inhibitors ACEI)/Angiotensin II Receptor Blockers (ARB)	65,128	59.1%	50,576	59.9%	-0.726	-0.015
Amiodarone	11,559	10.5%	9,241	10.9%	-0.442	-0.014
Anti-coagulant (injectable)	9,899	9.0%	5,989	7.1%	1.900	0.070
Antiarrhythmics	14,689	13.3%	11,523	13.6%	-0.301	-0.009
Antiplatelets	16,045	14.6%	13,071	15.5%	-0.902	-0.025
Beta blockers	78,479	71.3%	59,939	71.0%	0.315	0.007
Calcium channel blockers	46,764	42.5%	36,204	42.9%	-0.390	-0.008
Digoxin	11,910	10.8%	12,618	14.9%	-4.121	-0.123
Diuretics - loop	25,291	23.0%	21,867	25.9%	-2.918	-0.068
Diuretics - potassium sparing	8,643	7.8%	7,291	8.6%	-0.782	-0.028
Diuretics - thiazide	31,394	28.5%	24,717	29.3%	-0.750	-0.017
Dronedarone	4,259	3.9%	4,709	5.6%	-1.707	-0.081
Estrogen	2,355	2.1%	2,002	2.4%	-0.231	-0.016
	<b>_</b> ,555		2,002	<b></b>	0.201	0.010



 Table 1a. Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

					Absolute	Standardized
History of Use:	Number	Percent	Number	Percent	Difference	Difference
H2-antagonist	5,884	5.3%	4,695	5.6%	-0.214	-0.009
Insulin	6,713	6.1%	5,398	6.4%	-0.294	-0.012
Metformin	17,078	15.5%	12,838	15.2%	0.312	0.009
Nonsteroidal anti-inflammatory drugs (NSAIDs)	16,862	15.3%	12,756	15.1%	0.213	0.006
Nitrates	9,958	9.0%	8,477	10.0%	-0.992	-0.034
Other diabetes medications	6,475	5.9%	5,383	6.4%	-0.492	-0.021
Proton pump inhibitors	30,707	27.9%	22,673	26.8%	1.046	0.023
Selective Serotonin Reuptake Inhibitor (SSRI) antidepressants	14,878	13.5%	11,401	13.5%	0.015	0.000
Statins	64,665	58.7%	49,288	58.3%	0.378	0.008
Sulfonyureas	9,195	8.4%	7,940	9.4%	-1.049	-0.037
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.2	9.1	12.4	9.4	-0.185	-0.020
Mean number of emergency room	0.4	0.8	0.3	0.7	0.043	0.057
encounters						
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.010	-0.013
Mean number of generics	9.6	4.8	9.7	4.8	-0.072	-0.015

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.



 Table 1b. Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

	Medical Product				Covaria	te Balance
	Rivaro	oxaban	Dabi	gatran		
					Absolute	Standardized
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Difference	Difference
Patients (N)	82,326	74.8%	82,326	97.5%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	76.0	6.5	76.0	6.6	-0.008	-0.001
Age (years)	Number	Percent	Number	Percent		
65-74	39,956	48.5%	40,092	48.7%	-0.165	-0.003
75-85	33,965	41.3%	33,438	40.6%	0.640	0.013
85+	8,405	10.2%	8,796	10.7%	-0.475	-0.016
Sex						
Female	39,426	47.9%	39,491	48.0%	-0.079	-0.002
Male	42,900	52.1%	42,835	52.0%	0.079	0.002
Race <sup>2</sup>						
American Indian or Alaska Native	228	0.3%	219	0.3%	0.011	0.002
Asian	1,270	1.5%	1,270	1.5%	0.000	0.000
Black or African American	2,922	3.5%	2,911	3.5%	0.013	0.001
Unknown	2,421	2.9%	2,414	2.9%	0.009	0.001
White	75,485	91.7%	75,512	91.7%	-0.033	-0.001
Hispanic Origin	997	1.2%	1,092	1.3%	-0.115	-0.010
Year						
2010	-	0.0%	1,212	1.5%	-1.472	-
2011	120	0.1%	30,687	37.3%	-37.129	-1.083
2012	10,857	13.2%	22,532	27.4%	-14.181	-0.358
2013	23,986	29.1%	13,68 <mark>2</mark>	16.6%	12.516	0.301
2014	28,507	34.6%	9,299	11.3%	23.332	0.577
2015	18,856	22.9%	4,914	6.0%	16.935	0.496
CHA <sub>2</sub> DS <sub>2</sub> -VASc						
mean, standard deviation	3.9	1.5	3.9	1.5	0.006	0.004
0-1	2,743	3.3%	2,740	3.3%	0.004	0.000
2	12,769	15.5%	12,831	15.6%	-0.075	-0.002
3	19,566	23.8%	19,585	23.8%	-0.023	-0.001
4	20,955	25.5%	20,996	25.5%	-0.050	-0.001
5	13,590	16.5%	13,506	16.4%	0.102	0.003
>= 6	12,703	15.4%	12,668	15.4%	0.043	0.001
HAS-BLED						
mean, standard deviation	2.5	0.9	2.5	0.9	0.003	0.003
0-1	7,628	9.3%	7,676	9.3%	-0.058	-0.002
2	37,237	45.2%	37,279	45.3%	-0.051	-0.001
3	26,118	31.7%	26,065	31.7%	0.064	0.001
>= 4	11,343	13.8%	11,306	13.7%	0.045	0.001



Table 1b. Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD)between October 19, 2010 to September 30, 2015, After Matching

between october 19, 2010 to september 30, 2	,				Absolute	Standardized
Recorded History of:	Number	Percent	Number	Percent	Difference	Difference
Acute myocardial infarction - Past 0-30 days	1,028	1.2%	993	1.2%	0.043	0.004
Acute myocardial infarction - Past 31-183	678	0.8%	664	0.8%	0.017	0.002
days						
Cardioablation	1,826	2.2%	1,811	2.2%	0.018	0.001
Cardioversion	7,813	9.5%	7,756	9.4%	0.069	0.002
Coronary revascularization	12,215	14.8%	12,080	14.7%	0.164	0.005
Diabetes	27,451	33.3%	27,349	33.2%	0.124	0.003
Falls	3,816	4.6%	3,784	4.6%	0.039	0.002
Fractures	1,085	1.3%	1,103	1.3%	-0.022	-0.002
Heart failure - hospitalized	4,115	5.0%	4,119	5.0%	-0.005	-0.000
Heart failure - outpatient	19,514	23.7%	19,400	23.6%	0.138	0.003
Hypercholesterolemia	32,178	39.1%	32,046	38.9%	0.160	0.003
Hypertension	71,170	86.4%	71,130	86.4%	0.049	0.001
Kidney failure - acute	3,676	4.5%	3,643	4.4%	0.040	0.002
Kidney failure - chronic	7,906	9.6%	7,842	9.5%	0.078	0.003
Nicotine dependency	14,980	18.2%	14,889	18.1%	0.111	0.003
Obesity	11,335	13.8%	11,285	13.7%	0.061	0.002
Other ischemic heart disease	37,440	45.5%	37,291	45.3%	0.181	0.004
Peptic ulcer disease	309	0.4%	314	0.4%	-0.006	-0.001
Prior hospitalized bleeding	551	0.7%	542	0.7%	0.011	0.001
Stroke - past 0-30 days	1,415	1.7%	1,394	1.7%	0.026	0.002
Stroke - past 31-183 days	1,121	1.4%	1,119	1.4%	0.002	0.000
Syncope	7,168	8.7%	7,197	8.7%	-0.035	-0.001
Transient ischemic attack	5,308	6.4%	5,331	6.5%	-0.028	-0.001
Walker use	-	0.0%	-	0.0%	0.000	-
History of Use:						
Angiotensin-converting enzyme Inhibitors	49,201	59.8%	49,093	59.6%	0.131	0.003
(ACEI)/Angiotensin II Receptor Blockers (ARB)						
Amiodarone	8,938	10.9%	8,934	10.9%	0.005	0.000
Anti-coagulant (injectable)	5,963	7.2%	5,931	7.2%	0.039	0.002
Antiarrhythmics	11,294	13.7%	11,204	13.6%	0.109	0.003
Antiplatelets	12,540	15.2%	12,506	15.2%	0.041	0.001
Beta blockers	58,429	71.0%	58,347	70.9%	0.100	0.002
Calcium channel blockers	35,304	42.9%	35,230	42.8%	0.090	0.002
Digoxin	11,113	13.5%	11,198	13.6%	-0.103	-0.003
Diuretics - loop	20,847	25.3%	20,652	25.1%	0.237	0.005
Diuretics - potassium sparing	6,935	8.4%	6,972	8.5%	-0.045	-0.002
Diuretics - thiazide	24,015	29.2%	23,965	29.1%	0.061	0.001
Dronedarone	4,048	4.9%	4,057	4.9%	-0.011	-0.001
Estrogen	1,905	2.3%	1,917	2.3%	-0.015	-0.001
Fibrates	3,804	4.6%	3,802	4.6%	0.002	0.000



 Table 1b. Baseline Characteristics of New Users of Rivaroxaban and Dabigatran in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

					Absolute	Standardized
History of Use:	Number	Percent	Number	Percent	Difference	Difference
H2-antagonist	4,523	5.5%	4,513	5.5%	0.012	0.001
Insulin	5,227	6.3%	5,172	6.3%	0.067	0.003
Metformin	12,585	15.3%	12,536	15.2%	0.060	0.002
Nonsteroidal anti-inflammatory drugs (NSAIDs)	12,496	15.2%	12,458	15.1%	0.046	0.001
Nitrates	8,077	9.8%	8,031	9.8%	0.056	0.002
Other diabetes medications	5,153	6.3%	5,153	6.3%	0.000	0.000
Proton pump inhibitors	22,193	27.0%	22,145	26.9%	0.058	0.001
Selective Serotonin Reuptake Inhibitor (SSRI)	11,145	13.5%	11,074	13.5%	0.086	0.003
antidepressants						
Statins	48,075	58.4%	48,058	58.4%	0.021	0.000
Sulfonyureas	7,569	9.2%	7,551	9.2%	0.022	0.001
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.4	9.2	12.4	9.4	-0.003	-0.000
Mean number of emergency room	0.3	0.7	0.3	0.7	0.003	0.004
encounters						
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	0.004	0.005
Mean number of generics	9.7	4.8	9.7	4.8	0.015	0.003

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.



 Table 1c. Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

		Medical	Product		Covaria	te Balance
	Rivard	oxaban	Аріх	aban		
					Absolute	Standardized
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Difference	Difference
Patients (N)	111,816	100.0%	77,232	100.0%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	75.5	6.4	75.7	6.4	-0.288	-0.045
Age (years)	Number	Percent	Number	Percent		
65-74	57,787	51.7%	38,032	49.2%	2.437	0.049
75-85	44,196	39.5%	31,939	41.4%	-1.829	-0.037
85+	9,833	8.8%	7,261	9.4%	-0.608	-0.021
Sex						
Female	51,897	46.4%	37,128	48.1%	-1.660	-0.033
Male	59,919	53.6%	40,104	51.9%	1.660	0.033
Race <sup>2</sup>						
American Indian or Alaska Native	323	0.3%	159	0.2%	0.083	0.017
Asian	1,478	1.3%	785	1.0%	0.305	0.028
Black or African American	3,992	3.6%	2,889	3.7%	-0.171	-0.009
Unknown	3,439	3.1%	2,067	2.7%	0.399	0.024
White	102,584	91.7%	71,332	92.4%	-0.617	-0.023
Hispanic Origin	1,323	1.2%	689	0.9%	0.291	0.029
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	151	0.1%	-	0.0%	0.135	-
2012	13,984	12.5%	-	0.0%	12.506	-
2013	31,948	28.6%	8,722	11.3%	17.279	0.443
2014	39,225	35.1%	30,570	39.6%	-4.502	-0.093
2015	26,508	23.7%	37,940	49.1%	-25.418	-0.548
CHA <sub>2</sub> DS <sub>2</sub> -VASc						
mean, standard deviation	3.8	1.5	4.0	1.6	-0.147	-0.096
0-1	3,845	3.4%	2,079	2.7%	0.747	0.043
2	18,983	17.0%	11,656	15.1%	1.885	0.051
3	28,194	25.2%	18,753	24.3%	0.933	0.022
4	27,248	24.4%	18,872	24.4%	-0.067	-0.002
5	17,765	15.9%	13,134	17.0%	-1.118	-0.030
>= 6	15,781	14.1%	12,738	16.5%	-2.380	-0.066
HAS-BLED						
mean, standard deviation	2.5	0.9	2.6	0.9	-0.095	-0.104
0-1	10,937	9.8%	6,486	8.4%	1.383	0.048
2	51,220	45.8%	33,272	43.1%	2.727	0.055
3	35,069	31.4%	25,062	32.5%	-1.087	-0.023
>= 4	14,590	13.0%	12,412	16.1%	-3.023	-0.086



 Table 1c. Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

	,				Absolute	Standardized
Recorded History of:	Number	Percent	Number	Percent	Difference	Difference
Acute myocardial infarction - Past 0-30 days	1,618	1.4%	1,161	1.5%	-0.056	-0.005
Acute myocardial infarction - Past 31-183	886	0.8%	857	1.1%	-0.317	-0.033
days						
Cardioablation	2,384	2.1%	1,870	2.4%	-0.289	-0.019
Cardioversion	10,318	9.2%	8,207	10.6%	-1.399	-0.047
Coronary revascularization	16,459	14.7%	12,836	16.6%	-1.900	-0.052
Diabetes	35,981	32.2%	26,403	34.2%	-2.008	-0.043
Falls	5,335	4.8%	3,750	4.9%	-0.084	-0.004
Fractures	1,497	1.3%	993	1.3%	0.053	0.005
Heart failure - hospitalized	5,481	4.9%	4,542	5.9%	-0.979	-0.043
Heart failure - outpatient	24,600	22.0%	19,092	24.7%	-2.720	-0.064
Hypercholesterolemia	42,317	37.8%	29,286	37.9%	-0.074	-0.002
Hypertension	96,188	86.0%	67,758	87.7%	-1.710	-0.051
Kidney failure - acute	5,305	4.7%	5,444	7.0%	-2.304	-0.098
Kidney failure - chronic	9,834	8.8%	10,601	13.7%	-4.931	-0.156
Nicotine dependency	24,353	21.8%	18,443	23.9%	-2.100	-0.050
Obesity	18,301	16.4%	14,307	18.5%	-2.158	-0.057
Other ischemic heart disease	49,247	44.0%	36,549	47.3%	-3.281	-0.066
Peptic ulcer disease	415	0.4%	348	0.5%	-0.079	-0.012
Prior hospitalized bleeding	733	0.7%	573	0.7%	-0.086	-0.010
Stroke - past 0-30 days	1,843	1.6%	1,376	1.8%	-0.133	-0.010
Stroke - past 31-183 days	1,356	1.2%	1,175	1.5%	-0.309	-0.027
Syncope	9,909	8.9%	7,455	9.7%	-0.791	-0.027
Transient ischemic attack	6,792	6.1%	5,150	6.7%	-0.594	-0.024
Walker use	-	0.0%	-	0.0%	0.000	-
History of Use:						
Angiotensin-converting enzyme Inhibitors	66,064	59.1%	47,305	61.3%	-2.168	-0.044
(ACEI)/Angiotensin II Receptor Blockers (ARB)	44 770	10 50/	0.022	11 10/	0.000	0.020
Amiodarone	11,773	10.5%	8,833	11.4%	-0.908	-0.029
Anti-coagulant (injectable)	10,015	9.0%	7,554	9.8%	-0.824	-0.028
Antiarrhythmics	15,073	13.5%	11,047	14.3%	-0.823	-0.024
Antiplatelets	16,236	14.5%	12,584	16.3%	-1.773	-0.049
Beta blockers	79,641	71.2%	57,149	74.0%	-2.771	-0.062
Calcium channel blockers	47,420	42.4%	33,144	42.9%	-0.506	-0.010
Digoxin	12,136	10.9%	7,163	9.3%	1.579	0.052
Diuretics - loop	25,660	22.9%	20,390	26.4%	-3.453	-0.080
Diuretics - potassium sparing	8,791	7.9%	6,665	8.6%	-0.768	-0.028
Diuretics - thiazide	31,835	28.5%	22,310	28.9%	-0.416	-0.009
Dronedarone	4,398	3.9%	3,182	4.1%	-0.187	-0.010
Estrogen	2,389	2.1%	1,517	2.0%	0.172	0.012
Fibrates	4,790	4.3%	3,599	4.7%	-0.376	-0.018



 Table 1c. Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

					Absolute	Standardized
History of Use:	Number	Percent	Number	Percent	Difference	Difference
H2-antagonist	5,962	5.3%	4,395	5.7%	-0.359	-0.016
Insulin	6,801	6.1%	5,762	7.5%	-1.378	-0.055
Metformin	17,291	15.5%	12,475	16.2%	-0.689	-0.019
Nonsteroidal anti-inflammatory drugs (NSAIDs)	17,082	15.3%	11,464	14.8%	0.433	0.012
Nitrates	10,074	9.0%	7,925	10.3%	-1.252	-0.042
Other diabetes medications	6,548	5.9%	4,996	6.5%	-0.613	-0.025
Proton pump inhibitors	31,180	27.9%	23,356	30.2%	-2.356	-0.052
Selective Serotonin Reuptake Inhibitor (SSRI)	15,111	13.5%	10,858	14.1%	-0.545	-0.016
antidepressants						
Statins	65,614	58.7%	47,889	62.0%	-3.326	-0.068
Sulfonyureas	9,302	8.3%	6,818	8.8%	-0.509	-0.018
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.2	9.1	13.0	9.3	-0.763	-0.083
Mean number of emergency room	0.4	0.8	0.4	0.8	-0.022	-0.027
encounters						
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.007	-0.010
Mean number of generics	9.6	4.8	10.1	4.9	-0.451	-0.092

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.



 Table 1d. Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

		Medical	Product		Covaria	te Balance
	Rivaro	oxaban	Аріх	kaban		
					Absolute	Standardized
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Difference	Difference
Patients (N)	75,889	67.9%	75,889	98.3%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	75.7	6.4	75.7	6.4	-0.018	-0.003
Age (years)	Number	Percent	Number	Percent		
65-74	37,958	50.0%	37,493	49.4%	0.613	0.012
75-85	30,797	40.6%	31,310	41.3%	-0.676	-0.014
85+	7,134	9.4%	7,086	9.3%	0.063	0.002
Sex						
Female	36,498	48.1%	36,424	48.0%	0.098	0.002
Male	39,391	51.9%	39,465	52.0%	-0.098	-0.002
Race <sup>2</sup>						
American Indian or Alaska Native	166	0.2%	159	0.2%	0.009	0.002
Asian	815	1.1%	785	1.0%	0.040	0.004
Black or African American	2,775	3.7%	2,797	3.7%	-0.029	-0.002
Unknown	2,082	2.7%	2,053	2.7%	0.038	0.002
White	70,051	92.3%	70,095	92.4%	-0.058	-0.002
Hispanic Origin	847	1.1%	683	0.9%	0.216	0.022
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	101	0.1%	-	0.0%	0.133	-
2012	9,378	12.4%	-	0.0%	12.358	-
2013	21,524	28.4%	8,609	11.3%	17.018	0.437
2014	26,761	35.3%	30,064	39.6%	-4.352	-0.090
2015	18,125	23.9%	37,216	49.0%	-25.156	-0.541
CHA <sub>2</sub> DS <sub>2</sub> -VASc						
mean, standard deviation	3.9	1.5	3.9	1.5	-0.002	-0.001
0-1	2,074	2.7%	2,079	2.7%	-0.007	-0.000
2	11,647	15.3%	11,625	15.3%	0.029	0.001
3	18,587	24.5%	18,612	24.5%	-0.033	-0.001
4	18,652	24.6%	18,657	24.6%	-0.007	-0.000
5	12,749	16.8%	12,801	16.9%	-0.069	-0.002
>= 6	12,180	16.0%	12,115	16.0%	0.086	0.002
HAS-BLED						
mean, standard deviation	2.6	0.9	2.6	0.9	0.001	0.001
0-1	6,472	8.5%	6,485	8.5%	-0.017	-0.001
2	33,239	43.8%	33,236	43.8%	0.004	0.000
3	24,644	32.5%	24,651	32.5%	-0.009	-0.000
>= 4	11,534	15.2%	11,517	15.2%	0.022	0.001



 Table 1d. Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

	-	-			Absolute	Standardized
Recorded History of:	Number	Percent	Number	Percent	Difference	Difference
Acute myocardial infarction - Past 0-30 days	1,123	1.5%	1,134	1.5%	-0.014	-0.001
Acute myocardial infarction - Past 31-183	772	1.0%	768	1.0%	0.005	0.001
days						
Cardioablation	1,813	2.4%	1,812	2.4%	0.001	0.000
Cardioversion	7,943	10.5%	7,902	10.4%	0.054	0.002
Coronary revascularization	12,400	16.3%	12,316	16.2%	0.111	0.003
Diabetes	25,669	33.8%	25,576	33.7%	0.123	0.003
Falls	3,708	4.9%	3,644	4.8%	0.084	0.004
Fractures	956	1.3%	977	1.3%	-0.028	-0.002
Heart failure - hospitalized	4,252	5.6%	4,233	5.6%	0.025	0.001
Heart failure - outpatient	18,343	24.2%	18,293	24.1%	0.066	0.002
Hypercholesterolemia	28,805	38.0%	28,754	37.9%	0.067	0.001
Hypertension	66,435	87.5%	66,444	87.6%	-0.012	-0.000
Kidney failure - acute	4,716	6.2%	4,731	6.2%	-0.020	-0.001
Kidney failure - chronic	9,308	12.3%	9,347	12.3%	-0.051	-0.002
Nicotine dependency	17,873	23.6%	17,852	23.5%	0.028	0.001
Obesity	13,739	18.1%	13,729	18.1%	0.013	0.000
Other ischemic heart disease	35,517	46.8%	35,550	46.8%	-0.043	-0.001
Peptic ulcer disease	336	0.4%	334	0.4%	0.003	0.000
Prior hospitalized bleeding	540	0.7%	545	0.7%	-0.007	-0.001
Stroke - past 0-30 days	1,353	1.8%	1,336	1.8%	0.022	0.002
Stroke - past 31-183 days	1,093	1.4%	1,121	1.5%	-0.037	-0.003
Syncope	7,267	9.6%	7,232	9.5%	0.046	0.002
Transient ischemic attack	4,984	6.6%	4,996	6.6%	-0.016	-0.001
Walker use	-	0.0%	-	0.0%	0.000	-
History of Use:						
Angiotensin-converting enzyme Inhibitors	46,369	61.1%	46,276	61.0%	0.123	0.003
(ACEI)/Angiotensin II Receptor Blockers (ARB)						
Amiodarone	8,519	11.2%	8,533	11.2%	-0.018	-0.001
Anti-coagulant (injectable)	7,338	9.7%	7,340	9.7%	-0.003	-0.000
Antiarrhythmics	10,952	14.4%	10,858	14.3%	0.124	0.004
Antiplatelets	12,164	16.0%	12,140	16.0%	0.032	0.001
Beta blockers	55,886	73.6%	55,967	73.7%	-0.107	-0.002
Calcium channel blockers	32,360	42.6%	32,440	42.7%	-0.105	-0.002
Digoxin	7,181	9.5%	7,116	9.4%	0.086	0.003
Diuretics - loop	19,503	25.7%	19,506	25.7%	-0.004	-0.000
Diuretics - potassium sparing	6,485	8.5%	6,440	8.5%	0.059	0.002
Diuretics - thiazide	21,901	28.9%	21,899	28.9%	0.003	0.000
Dronedarone	3,091	4.1%	3,113	4.1%	-0.029	-0.001
Estrogen	1,502	2.0%	1,503	2.0%	-0.001	-0.000
Fibrates	3,486	4.6%	3,474	4.6%	0.016	0.001



 Table 1d. Baseline Characteristics of New Users of Rivaroxaban and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

					Absolute	Standardized
History of Use:	Number	Percent	Number	Percent	Difference	Difference
H2-antagonist	4,314	5.7%	4,280	5.6%	0.045	0.002
Insulin	5,380	7.1%	5,356	7.1%	0.032	0.001
Metformin	12,199	16.1%	12,191	16.1%	0.011	0.000
Nonsteroidal anti-inflammatory drugs (NSAIDs)	11,260	14.8%	11,283	14.9%	-0.030	-0.001
Nitrates	7,604	10.0%	7,586	10.0%	0.024	0.001
Other diabetes medications	4,849	6.4%	4,801	6.3%	0.063	0.003
Proton pump inhibitors	22,770	30.0%	22,696	29.9%	0.098	0.002
Selective Serotonin Reuptake Inhibitor (SSRI)	10,605	14.0%	10,624	14.0%	-0.025	-0.001
antidepressants						
Statins	46,822	61.7%	46,778	61.6%	0.058	0.001
Sulfonyureas	6,614	8.7%	6,598	8.7%	0.021	0.001
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.9	9.6	12.9	9.1	0.019	0.002
Mean number of emergency room	0.4	0.8	0.4	0.8	0.001	0.002
encounters						
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.000	-0.000
Mean number of generics	10.0	4.9	10.0	4.9	0.005	0.001

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.



 Table 1e. Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

		Medical	Product		Covaria	te Balance
	Dabi	gatran	Аріх	kaban		
					Absolute	Standardized
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Difference	Difference
Patients (N)	84,562	100.0%	76,887	100.0%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	76.0	6.6	75.7	6.4	0.303	0.047
Age (years)	Number	Percent	Number	Percent		
65-74	40,753	48.2%	37,862	49.2%	-1.051	-0.021
75-85	34,534	40.8%	31,785	41.3%	-0.501	-0.010
85+	9,275	11.0%	7,240	9.4%	1.552	0.051
Sex						
Female	40,869	48.3%	37,025	48.2%	0.175	0.004
Male	43,693	51.7%	39,862	51.8%	-0.175	-0.004
Race <sup>2</sup>						
American Indian or Alaska Native	224	0.3%	156	0.2%	0.062	0.013
(Asian	1,363	1.6%	786	1.0%	0.590	0.052
Black or African American	2,997	3.5%	2,889	3.8%	-0.213	-0.011
Unknown	2,461	2.9%	2,068	2.7%	0.221	0.013
White	77,517	91.7%	70,988	92.3%	-0.659	-0.024
Hispanic Origin	1,116	1.3%	694	0.9%	0.417	0.040
Year						
2010	1,270	1.5%	-	0.0%	1.502	-
2011	31,776	37.6%	-	0.0%	37.577	-
2012	23,085	27.3%	-	0.0%	27.299	-
2013	13,943	16.5%	8,608	11.2%	5.293	0.154
2014	9,463	11.2%	30,302	39.4%	-28.220	-0.686
2015	5,025	5.9%	37,977	49.4%	-43.451	-1.111
CHA <sub>2</sub> DS <sub>2</sub> -VASc						
mean, standard deviation	3.9	1.5	4.0	1.6	-0.042	-0.027
0-1	2,775	3.3%	2,050	2.7%	0.615	0.036
2	12,962	15.3%	11,594	15.1%	0.249	0.007
3	19,816	23.4%	18,659	24.3%	-0.834	-0.020
4	21,646	25.6%	18,800	24.5%	1.146	0.026
5	13,991	16.5%	13,112	17.1%	-0.508	-0.014
>= 6	13,372	15.8%	12,672	16.5%	-0.668	-0.018
HAS-BLED						
mean, standard deviation	2.5	0.9	2.6	0.9	-0.064	-0.069
0-1	7,788	9.2%	6,455	8.4%	0.814	0.029
2	38,021	45.0%	33,078	43.0%	1.941	0.039
3	26,875	31.8%	24,997	32.5%	-0.730	-0.016
>= 4	11,878	14.0%	12,357	16.1%	-2.025	-0.057



 Table 1e. Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

					Absolute	Standardized
Recorded History of:	Number	Percent	Number	Percent	Difference	Difference
Acute myocardial infarction - Past 0-30 days	1,003	1.2%	1,164	1.5%	-0.328	-0.028
Acute myocardial infarction - Past 31-183	692	0.8%	857	1.1%	-0.296	-0.030
days						
Cardioablation	1,910	2.3%	1,855	2.4%	-0.154	-0.010
Cardioversion	8,106	9.6%	8,173	10.6%	-1.044	-0.035
Coronary revascularization	12,512	14.8%	12,780	16.6%	-1.826	-0.050
Diabetes	28,398	33.6%	26,301	34.2%	-0.625	-0.013
Falls	3,888	4.6%	3,736	4.9%	-0.261	-0.012
Fractures	1,134	1.3%	992	1.3%	0.051	0.004
Heart failure - hospitalized	4,314	5.1%	4,537	5.9%	-0.799	-0.035
Heart failure - outpatient	20,515	24.3%	19,009	24.7%	-0.463	-0.011
Hypercholesterolemia	33,107	39.2%	29,176	37.9%	1.205	0.025
Hypertension	73,151	86.5%	67,467	87.7%	-1.242	-0.037
Kidney failure - acute	3,747	4.4%	5,426	7.1%	-2.626	-0.113
Kidney failure - chronic	8,336	9.9%	10,550	13.7%	-3.864	-0.120
Nicotine dependency	15,016	17.8%	18,412	23.9%	-6.189	-0.153
Obesity	11,364	13.4%	14,263	18.6%	-5.112	-0.140
Other ischemic heart disease	38,638	45.7%	36,390	47.3%	-1.637	-0.033
Peptic ulcer disease	330	0.4%	342	0.4%	-0.055	-0.008
Prior hospitalized bleeding	574	0.7%	568	0.7%	-0.060	-0.007
Stroke - past 0-30 days	1,440	1.7%	1,358	1.8%	-0.063	-0.005
Stroke - past 31-183 days	1,191	1.4%	1,174	1.5%	-0.118	-0.010
Syncope	7,441	8.8%	7,446	9.7%	-0.885	-0.031
Transient ischemic attack	5,571	6.6%	5,120	6.7%	-0.071	-0.003
Walker use	-	0.0%	-	0.0%	0.000	-
History of Use:						
Angiotensin-converting enzyme Inhibitors	50,619	59.9%	47,103	61.3%	-1.402	-0.029
(ACEI)/Angiotensin II Receptor Blockers (ARB)						
Amiodarone	9,249	10.9%	8,773	11.4%	-0.473	-0.015
Anti-coagulant (injectable)	5,994	7.1%	7,513	9.8%	-2.683	-0.097
Antiarrhythmics	11,541	13.6%	10,968	14.3%	-0.617	-0.018
Antiplatelets	13,085	15.5%	12,538	16.3%	-0.833	-0.023
Beta blockers	60,003	71.0%	56,894	74.0%	-3.040	-0.068
Calcium channel blockers	36,235	42.9%	33,025	43.0%	-0.102	-0.002
Digoxin	12,638	14.9%	7,146	9.3%	5.651	0.174
Diuretics - loop	21,887	25.9%	20,319	26.4%	-0.544	-0.012
Diuretics - potassium sparing	7,298	8.6%	6,623	8.6%	0.016	0.001
Diuretics - thiazide	24,743	29.3%	22,202	28.9%	0.384	0.008
Dronedarone	4,716	5.6%	3,157	4.1%	1.471	0.069
Estrogen	2,003	2.4%	1,514	2.0%	0.400	0.027
Fibrates	3,986	4.7%	3,581	4.7%	0.056	0.003



 Table 1e. Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, Before Matching

					Absolute	Standardized
History of Use:	Number	Percent	Number	Percent	Difference	Difference
H2-antagonist	4,699	5.6%	4,374	5.7%	-0.132	-0.006
Insulin	5,405	6.4%	5,731	7.5%	-1.062	-0.042
Metformin	12,855	15.2%	12,450	16.2%	-0.991	-0.027
Nonsteroidal anti-inflammatory drugs (NSAIDs)	12,763	15.1%	11,423	14.9%	0.236	0.007
Nitrates	8,482	10.0%	7,911	10.3%	-0.259	-0.009
Other diabetes medications	5,392	6.4%	4,970	6.5%	-0.088	-0.004
Proton pump inhibitors	22,700	26.8%	23,243	30.2%	-3.386	-0.075
Selective Serotonin Reuptake Inhibitor (SSRI)	11,409	13.5%	10,822	14.1%	-0.583	-0.017
antidepressants						
Statins	49,325	58.3%	47,697	62.0%	-3.705	-0.076
Sulfonyureas	7,949	9.4%	6,794	8.8%	0.564	0.020
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.4	9.4	13.0	9.3	-0.578	-0.062
Mean number of emergency room	0.3	0.7	0.4	0.8	-0.064	-0.083
encounters						
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	0.004	0.005
Mean number of generics	9.7	4.8	10.1	4.9	-0.380	-0.078

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.



 Table 1f. Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

		Medical	Product		Covaria	te Balance
	Dabi	gatran	Аріх	aban		
1					Absolute	Standardized
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Difference	Difference
Patients (N)	69,054	81.7%	69,054	89.8%	-	-
		Standard		Standard		
Demographics	Mean	Deviation	Mean	Deviation		
Mean age (years)	75.9	6.6	75.9	6.4	-0.008	-0.001
Age (years)	Number	Percent	Number	Percent		
65-74	33,929	49.1%	33,418	48.4%	0.740	0.015
75-85	27,970	40.5%	28,879	41.8%	-1.316	-0.027
85+	7,155	10.4%	6,757	9.8%	0.576	0.019
Sex						
Female	33,272	48.2%	33,262	48.2%	0.014	0.000
Male	35,782	51.8%	35,792	51.8%	-0.014	-0.000
Race <sup>2</sup>						
American Indian or Alaska Native	152	0.2%	150	0.2%	0.003	0.001
Asian	768	1.1%	776	1.1%	-0.012	-0.001
Black or African American	2,506	3.6%	2,469	3.6%	0.054	0.003
Unknown	1,896	2.7%	1,912	2.8%	-0.023	-0.001
White	63,732	92.3%	63,747	92.3%	-0.022	-0.001
Hispanic Origin	853	1.2%	643	0.9%	0.304	0.029
Year						
2010	980	1.4%	-	0.0%	1.419	-
2011	25,133	36.4%	-	0.0%	36.396	-
2012	18,831	27.3%	-	0.0%	27.270	-
2013	11,699	16.9%	7,939	11.5%	5.445	0.156
2014	8,058	11.7%	27,394	39.7%	-28.001	-0.677
2015	4,353	6.3%	33,721	48.8%	-42.529	-1.082
CHA <sub>2</sub> DS <sub>2</sub> -VASc						
mean, standard deviation	3.9	1.5	3.9	1.5	-0.007	-0.004
0-1	1,989	2.9%	2,000	2.9%	-0.016	-0.001
2	10,763	15.6%	10,709	15.5%	0.078	0.002
3	16,787	24.3%	16,801	24.3%	-0.020	-0.000
4	17,213	24.9%	17,217	24.9%	-0.006	-0.000
5	11,468	16.6%	11,441	16.6%	0.039	0.001
>= 6	10,834	15.7%	10,886	15.8%	-0.075	-0.002
HAS-BLED						
mean, standard deviation	2.6	0.9	2.6	0.9	-0.002	-0.002
0-1	6,206	9.0%	6,157	8.9%	0.071	0.002
2	30,688	44.4%	30,678	44.4%	0.014	0.000
3	22,122	32.0%	22,164	32.1%	-0.061	-0.001
>= 4	10,038	14.5%	10,055	14.6%	-0.025	-0.001



 Table 1f. Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

		Absolute	Standardized
Recorded History of: Number Percent Number	Percent	Difference	Difference
Acute myocardial infarction - Past 0-30 days 885 1.3% 922	1.3%	-0.054	-0.005
Acute myocardial infarction - Past 31-183 625 0.9% 631	0.9%	-0.009	-0.001
days			
Cardioablation 1,577 2.3% 1,587	2.3%	-0.014	-0.001
Cardioversion 6,905 10.0% 6,950	10.1%	-0.065	-0.002
Coronary revascularization 10,638 15.4% 10,684	15.5%	-0.067	-0.002
Diabetes 22,937 33.2% 23,006	33.3%	-0.100	-0.002
Falls 3,231 4.7% 3,236	4.7%	-0.007	-0.000
Fractures 894 1.3% 882	1.3%	0.017	0.002
Heart failure - hospitalized 3,587 5.2% 3,610	5.2%	-0.033	-0.001
Heart failure - outpatient 16,396 23.7% 16,365	23.7%	0.045	0.001
Hypercholesterolemia 26,405 38.2% 26,392	38.2%	0.019	0.000
Hypertension 60,068 87.0% 60,107	87.0%	-0.056	-0.002
Kidney failure - acute 3,550 5.1% 3,562	5.2%	-0.017	-0.001
Kidney failure - chronic 7,686 11.1% 7,776	11.3%	-0.130	-0.004
Nicotine dependency 13,911 20.1% 13,958	20.2%	-0.068	-0.002
Obesity 10,680 15.5% 10,786	15.6%	-0.154	-0.004
Other ischemic heart disease 31,807 46.1% 31,805	46.1%	0.003	0.000
Peptic ulcer disease 283 0.4% 282	0.4%	0.001	0.000
Prior hospitalized bleeding 465 0.7% 474	0.7%	-0.013	-0.002
Stroke - past 0-30 days 1,196 1.7% 1,184	1.7%	0.017	0.001
Stroke - past 31-183 days 996 1.4% 1,008	1.5%	-0.017	-0.001
Syncope 6,327 9.2% 6,349	9.2%	-0.032	-0.001
Transient ischemic attack 4,554 6.6% 4,525	6.6%	0.042	0.002
Walker use - 0.0% -	0.0%	0.000	-
History of Use:			
Angiotensin-converting enzyme Inhibitors 41,771 60.5% 41,805	60.5%	-0.049	-0.001
(ACEI)/Angiotensin II Receptor Blockers (ARB)			
Amiodarone 7,592 11.0% 7,594	11.0%	-0.003	-0.000
Anti-coagulant (injectable) 5,586 8.1% 5,653	8.2%	-0.097	-0.004
Antiarrhythmics 9,783 14.2% 9,815	14.2%	-0.046	-0.001
Antiplatelets 10,793 15.6% 10,789	15.6%	0.006	0.000
Beta blockers 50,352 72.9% 50,278	72.8%	0.107	0.002
Calcium channel blockers 29,479 42.7% 29,454	42.7%	0.036	0.001
Digoxin 6,998 10.1% 7,046	10.2%	-0.070	-0.002
Diuretics - loop 17,596 25.5% 17,655	25.6%	-0.085	-0.002
Diuretics - potassium sparing 5,881 8.5% 5,802	8.4%	0.114	0.004
Diuretics - thiazide 20,011 29.0% 20,067	29.1%	-0.081	-0.002
Dronedarone 2,998 4.3% 3,059	4.4%	-0.088	-0.004
Estrogen 1,437 2.1% 1,433	2.1%	0.006	0.000
Fibrates 3,127 4.5% 3,149	4.6%	-0.032	-0.002



 Table 1f. Baseline Characteristics of New Users of Dabigatran and Apixaban in the Sentinel Distributed Database (SDD)

 between October 19, 2010 to September 30, 2015, After Matching

					Absolute	Standardized
History of Use:	Number	Percent	Number	Percent	Difference	Difference
H2-antagonist	3,804	5.5%	3,808	5.5%	-0.006	-0.000
Insulin	4,636	6.7%	4,657	6.7%	-0.030	-0.001
Metformin	10,751	15.6%	10,795	15.6%	-0.064	-0.002
Nonsteroidal anti-inflammatory drugs (NSAIDs)	10,288	14.9%	10,335	15.0%	-0.068	-0.002
Nitrates	6,819	9.9%	6,870	9.9%	-0.074	-0.002
Other diabetes medications	4,315	6.2%	4,378	6.3%	-0.091	-0.004
Proton pump inhibitors	19,645	28.4%	19,736	28.6%	-0.132	-0.003
Selective Serotonin Reuptake Inhibitor (SSRI)	9,485	13.7%	9,454	13.7%	0.045	0.001
antidepressants						
Statins	41,792	60.5%	41,826	60.6%	-0.049	-0.001
Sulfonyureas	6,048	8.8%	6,093	8.8%	-0.065	-0.002
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.7	9.6	12.7	9.1	-0.009	-0.001
Mean number of emergency room	0.4	0.8	0.4	0.7	-0.002	-0.003
encounters						
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.000	-0.000
Mean number of generics	9.8	4.9	9.8	4.8	-0.014	-0.003

<sup>1</sup>Covariates in blue show a standardized difference greater than 0.1.



Table 2. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	is (Site-adjuste	d only)									
Rivaroxaban	110,113	37,287.25	123.68	0.34	292	7.83	2.65	-1.29	-0.25	0.87 (0.74, 1.03)	0.114
Dabigatran	84,473	26,858.70	116.13	0.32	245	9.12	2.9	-1.29			0.114
1:1 Matched Condi	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	82,326	12,020.37	53.33	0.15	142	11.81	1.72	1 22	0.10	0.90 ( 0.72, 1.13)	0.250
Dabigatran	82,326	12,020.37	53.33	0.15	158	13.14	1.92	-1.33	-0.19		0.356
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05								
Rivaroxaban	82,326	27,774.62	123.23	0.34	221	7.96	2.68	1 1 1	-0.21	0.89 ( 0.74, 1.07)	0.205
Dabigatran	82,326	26,242.22	116.43	0.32	238	9.07	2.89	-1.11			0.205

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 3. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

Medical Product No Antiplatelets	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	94,068	31,920.44	123.94	0.34	233	7.3	2.48				
Dabigatran	71,402	22,722.51	116.23	0.32	187	8.23	2.62	-0.93	-0.14	0.90 (0.75, 1.10)	0.303
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	69,758	10,226.98	53.55	0.15	116	11.34	1.66	0.00	0.1	0.94 ( 0.73, 1.22)	0.051
Dabigatran	69,758	10,226.98	53.55	0.15	123	12.03	1.76	-0.68	-0.1	0.94 (0.73, 1.22)	0.651
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	05								
Rivaroxaban	69,758	23,594.14	123.54	0.34	173	7.33	2.48	-0.85	-0.13	0.91 ( 0.74, 1.12)	0.375
Dabigatran	69,758	22,245.22	116.48	0.32	182	8.18	2.61	-0.85	-0.15	0.91 (0.74, 1.12)	0.375
Antiplatelets											
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	16,045	5,366.81	122.17	0.33	59	10.99	3.68	-3.03	-0.76	0.79 ( 0.55, 1.13)	0.199
Dabigatran	13,071	4,136.20	115.58	0.32	58	14.02	4.44	-3.05	-0.70	0.79 (0.55, 1.15)	0.199
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	12,416	1,791.59	52.7	0.14	29	16.19	2.34	-3.35	-0.48	0.83 ( 0.51, 1.36)	
Dabigatran	12,416	1,791.59	52.7	0.14	35	19.54	2.82	-3.33	-0.48	0.85 (0.51, 1.50)	0.454
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Rivaroxaban	12,416	4,137.37	121.71	0.33	48	11.6	3.87	-2.56	-0.64	0.82 ( 0.56, 1.21)	0.317
Dabigatran	12,416	3,953.22	116.29	0.32	56	14.17	4.51	-2.50	-0.04	0.82 (0.30, 1.21)	0.517

<sup>1</sup>Conditional analysis includes informative events and person-time.



 Table 4. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analysis	(Site-adjusted or	nly)									
Rivaroxaban	58,957	19,586.52	121.34	0.33	131	6.69	2.22	-1.31	-0.3	0.84 (0.65, 1.08)	0.182
Dabigatran	43,649	13,750.04	115.06	0.32	110	8	2.52	-1.51			0.102
1:1 Matched Condition	onal Analysis; Ca	liper= 0.05 <sup>1</sup>									
Rivaroxaban	42,684	6,223.10	53.25	0.15	57	9.16	1.34	-2.57	-0.37	0.78 ( 0.55, 1.10)	0.162
Dabigatran	42,684	6,223.10	53.25	0.15	73	11.73	1.71	-2.57	-0.57	0.78 (0.55, 1.10)	0.162
1:1 Matched Uncond	litional Analysis;	Caliper= 0.05									
Rivaroxaban	42,684	14,091.00	120.58	0.33	90	6.39	2.11	1 ( 1	0.42		0.110
Dabigatran	42,684	13,457.06	115.15	0.32	108	8.03	2.53	-1.64	-0.42	0.80 (0.60, 1.06)	0.116
Sex: Female											
Unmatched Analysis	(Site-adjusted or	nly)									
Rivaroxaban	51,156	17,700.73	126.38	0.35	161	9.1	3.15	1 0	0.16	0.01 ( 0.72 1.14)	0.204
Dabigatran	40,824	13,108.67	117.28	0.32	135	10.3	3.31	-1.2	-0.16	0.91 (0.72, 1.14)	0.394
1:1 Matched Conditi	onal Analysis; Ca	liper= 0.05 <sup>1</sup>									
Rivaroxaban	39,269	5,728.64	53.28	0.15	85	14.84	2.16	4.22	0.40		0 500
Dabigatran	39,269	5,728.64	53.28	0.15	92	16.06	2.34	-1.22	-0.18	0.92 (0.69, 1.24)	0.599
1:1 Matched Uncond	litional Analysis;	Caliper= 0.05									
Rivaroxaban	39,269	13,558.25	126.11	0.35	129	9.51	3.29	0.76	0.00		0.65
Dabigatran	39,269	12,651.02	117.67	0.32	130	10.28	3.31	-0.76	-0.03	0.95 (0.74, 1.21)	0.65

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 5. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Users by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analysis	(Site-adjusted or	nly)									
Rivaroxaban	56,862	19,632.17	126.11	0.35	114	5.81	2	-1.12	-0.23	0.86 ( 0.65, 1.13)	0.274
Dabigatran	40,695	13,143.72	117.97	0.32	91	6.92	2.24	-1.12	-0.25	0.80 ( 0.85, 1.15)	0.274
1:1 Matched Conditio	onal Analysis; Ca	liper= 0.05 <sup>1</sup>									
Rivaroxaban	39,926	5,941.38	54.35	0.15	46	7.74	1.15	-2.36	-0.35	0.77 ( 0.52, 1.13)	0.175
Dabigatran	39,926	5,941.38	54.35	0.15	60	10.1	1.5	-2.50	-0.55	0.77 (0.32, 1.13)	0.175
1:1 Matched Uncondi	itional Analysis;	Caliper= 0.05	;								
Rivaroxaban	39,926	13,763.29	125.91	0.34	85	6.18	2.13	-0.56	-0.05	0.94 ( 0.70, 1.27)	0.683
Dabigatran	39,926	12,914.53	118.14	0.32	87	6.74	2.18	-0.30	-0.05	0.34 ( 0.70, 1.27)	0.005
Age Group: 75-84											
Unmatched Analysis	(Site-adjusted or	nly)									
Rivaroxaban	43,527	14,753.69	123.8	0.34	140	9.49	3.22	-0.78	-0.09	0.94 ( 0.73, 1.20)	0.596
Dabigatran	34,508	11,097.34	117.46	0.32	114	10.27	3.3	-0.76	-0.05	0.54 (0.75, 1.20)	0.550
1:1 Matched Conditio	onal Analysis; Ca	liper= 0.05 <sup>1</sup>									
Rivaroxaban	33,403	4,890.12	53.47	0.15	66	13.5	1.98	-1.02	-0.15	0.93 ( 0.66, 1.30)	0.669
Dabigatran	33,403	4,890.12	53.47	0.15	71	14.52	2.13	-1.02	-0.15	0.95 (0.00, 1.50)	0.009
1:1 Matched Uncondi	itional Analysis;	Caliper= 0.05	;								
Rivaroxaban	33,403	11,304.40	123.61	0.34	100	8.85	2.99	-1.65	-0.39	0.85 ( 0.65, 1.11)	0.234
Dabigatran	33,403	10,763.47	117.69	0.32	113	10.5	3.38	-1.05	-0.39	0.85 (0.65, 1.11)	0.234
Age Group: 85+											
Unmatched Analysis	(Site-adjusted or	nly)									
Rivaroxaban	9,724	2,901.39	108.98	0.3	38	13.1	3.91	-2.18	-0.41	0.85 ( 0.55, 1.33)	0.485
Dabigatran	9,270	2,617.65	103.14	0.28	40	15.28	4.31	-2.10	-0.41	0.05 (0.55, 1.55)	0.405


 Table 5. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran in the Sentinel Distributed Database (SDD) between October 19, 2010 to

 September 30, 2015, Users by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Conditi	ional Analysis; Ca	liper= 0.05 <sup>1</sup>									
Rivaroxaban	8,388	1,075.86	46.85	0.13	19	17.66	2.27	2 70	0.26		0.64
Dabigatran	8,388	1,075.86	46.85	0.13	22	20.45	2.62	-2.79	-0.36	0.86 (0.47, 1.60)	0.64
1:1 Matched Uncond	ditional Analysis;	Caliper= 0.05	5								
Rivaroxaban	8,388	2,516.20	109.57	0.3	33	13.12	3.93	1 50	-0.24	0.80(0.55, 1.44)	0.637
Dabigatran	8,388	2,382.12	103.73	0.28	35	14.69	4.17	-1.58	-0.24	0.89 ( 0.55, 1.44)	0.037



Table 6. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor											
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	3,766	1,229.68	119.26	0.33	****	****	****	-0.24	-0.02	0.91 ( 0.20, 4.07)	0.902
Dabigatran	2,768	859.06	113.36	0.31	* * * * *	****	****	-0.24	-0.02	0.51 ( 0.20, 4.07)	0.502
1:1 Matched Condi	tional Analysis;	Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	2,726	395.41	52.98	0.15	* * * * *	****	****	-2.53	-0.37	0.50 ( 0.05, 5.51)	0.571
Dabigatran	2,726	395.41	52.98	0.15	* * * * *	****	****	-2.35	-0.37	0.50 ( 0.05, 5.51)	0.371
1:1 Matched Uncor	nditional Analys	is; Caliper=	0.05								
Rivaroxaban	2,726	888.59	119.06	0.33	****	****	****	0.97	0.37	1 24 / 0 28 5 54	0.779
Dabigatran	2,726	849.07	113.76	0.31	****	****	****	0.97	0.37	1.24 ( 0.28, 5.54)	0.779
CHA2DS2-VASc Scor	re: 2										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	18,605	6,550.83	128.6	0.35	****	****	****	-0.52	-0.05	0.93 ( 0.51, 1.72)	0.827
Dabigatran	12,943	4,148.21	117.06	0.32	****	****	****	-0.52	-0.05	0.93 ( 0.51, 1.72)	0.827
1:1 Matched Condi	tional Analysis;	Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	12,668	1,959.70	56.5	0.15	****	****	****	4 50	0.24	0.72 ( 0.20 . 4.04 )	0.402
Dabigatran	12,668	1,959.70	56.5	0.15	****	****	****	-1.53	-0.24	0.73 (0.29, 1.81)	0.493
1:1 Matched Uncor	nditional Analys	is; Caliper= (	0.05								
Rivaroxaban	12,668	4,454.51	128.43	0.35	****	****	****	1.20	0.22	0.76 ( 0.20 , 4.52)	0 422
Dabigatran	12,668	4,065.50	117.22	0.32	****	****	****	-1.28	-0.32	0.76(0.38, 1.52)	0.432
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 3										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	27,766	9,689.18	127.46	0.35	46	4.75	1.66	2.40	0.62		0.070
Dabigatran	19,794	6,483.95	119.65	0.33	45	6.94	2.27	-2.19	-0.62	0.69 (0.45, 1.04)	0.073



Table 6. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	)5 <sup>1</sup>								
Rivaroxaban	19,542	2,938.95	54.93	0.15	16	5.44	0.82	- 4	0.77	0.52 ( 0.20 . 0.04)	0.022
Dabigatran	19,542	2,938.95	54.93	0.15	31	10.55	1.59	-5.1	-0.77	0.52 ( 0.28, 0.94)	0.032
1:1 Matched Unco	nditional Analys	is; Caliper=	0.05								
Rivaroxaban	19,542	6,769.98	126.53	0.35	32	4.73	1.64	246	0.64	0.00/0.42.4.00	0 1 0 2
Dabigatran	19,542	6,390.96	119.45	0.33	44	6.88	2.25	-2.16	-0.61	0.68 (0.43, 1.08)	0.103
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 4										
Unmatched Analys	is (Site-adjusted	l only)									
Rivaroxaban	26,827	9,260.57	126.08	0.35	71	7.67	2.65	-0.92	-0.17	0.00/0.64 1.27)	0 5 4 6
Dabigatran	21,631	7,101.32	119.91	0.33	61	8.59	2.82	-0.92	-0.17	0.90 ( 0.64, 1.27)	0.546
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	05 <sup>1</sup>								
Rivaroxaban	20,835	3,121.17	54.72	0.15	39	12.5	1.87	-0.96	-0.14	0.93 ( 0.60, 1.44)	0.739
Dabigatran	20,835	3,121.17	54.72	0.15	42	13.46	2.02	-0.90	-0.14	0.95 (0.00, 1.44)	0.759
1:1 Matched Unco	nditional Analys	is; Caliper=	0.05								
Rivaroxaban	20,835	7,191.33	126.07	0.35	54	7.51	2.59	-0.79	-0.14	0.01/0.62 1.22)	0.62
Dabigatran	20,835	6,870.31	120.44	0.33	57	8.3	2.74	-0.79	-0.14	0.91 ( 0.63, 1.32)	0.62
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 5										
Unmatched Analys	is (Site-adjusted	l only)									
Rivaroxaban	17,526	5,714.86	119.1	0.33	61	10.67	3.48	-0.2	0.12	0.99 ( 0.68, 1.45)	0.97
Dabigatran	13,980	4,323.18	112.95	0.31	47	10.87	3.36	-0.2	0.12	0.99 (0.08, 1.45)	0.97
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	05 <sup>1</sup>								
Rivaroxaban	13,481	1,890.25	51.21	0.14	31	16.4	2.3	2.12	0.3	1.15 ( 0.69, 1.92)	0.6
Dabigatran	13,481	1,890.25	51.21	0.14	27	14.28	2	2.12	0.5	1.13(0.09, 1.92)	0.0
	10,401	1,050.25	51.21	0.1		1.110	-				
1:1 Matched Unco	-			0.2.		1.120	-				
1:1 Matched Uncor Rivaroxaban	-			0.33	46	10.48	3.41	-0.5	0	0.96 ( 0.64, 1.45)	0.857



Table 6. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	Number of New Users re: 6+	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Unmatched Analysi	s (Site-adjustea	l only)									
Rivaroxaban	15,623	4,842.13	113.2	0.31	85	17.55	5.44	0.45	0.12		0.016
Dabigatran	13,357	3,942.98	107.82	0.3	71	18.01	5.32	-0.45	0.13	0.98 ( 0.72, 1.35)	0.916
1:1 Matched Condit	tional Analysis;	Caliper= 0.0	95 <sup>1</sup>								
Rivaroxaban	12,542	1,656.93	48.25	0.13	46	27.76	3.67	1 21	0.16		0 0 7 7
Dabigatran	12,542	1,656.93	48.25	0.13	48	28.97	3.83	-1.21	-0.16	0.96 ( 0.64, 1.44)	0.837
1:1 Matched Uncon	ditional Analys	is; Caliper= (	0.05								
Rivaroxaban	12,542	3,905.66	113.74	0.31	70	17.92	5.58	0.15	0.24	1 01 / 0 72 1 41	0.005
Dabigatran	12,542	3,708.01	107.99	0.3	67	18.07	5.34	-0.15	0.24	1.01 ( 0.72, 1.41)	0.965

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 7. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	1										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	10,726	3,711.82	126.4	0.35	21	5.66	1.96	****	****		0.47
Dabigatran	7,779	2,451.25	115.09	0.32	****	****	****	* * * * *	* * * * *	1.77 (0.78, 4.00)	0.17
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	7,582	1,118.93	53.9	0.15	****	****	****	2.60			0.44
Dabigatran	7,582	1,118.93	53.9	0.15	****	****	****	2.68	0.4	1.60 ( 0.52, 4.89)	0.41
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	05								
Rivaroxaban	7,582	2,591.50	124.84	0.34	13	5.02	1.71	* * * * *	****	1 51 ( 0 62 - 2 64)	0.261
Dabigatran	7,582	2,390.63	115.16	0.32	****	****	****			1.51 (0.62, 3.64)	0.361
HAS-BLED Score: 2											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	50,401	17,982.00	130.31	0.36	94	5.23	1.87	-1.77	-0.48		0.069
Dabigatran	37,972	12,723.87	122.39	0.34	89	6.99	2.34	-1.//	-0.48	0.76 (0.57, 1.02)	0.069
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	37,179	5,705.52	56.05	0.15	47	8.24	1.26	-2.28	-0.35	0.78 ( 0.53, 1.15)	0.21
Dabigatran	37,179	5,705.52	56.05	0.15	60	10.52	1.61	-2.28	-0.35	0.78 (0.53, 1.15)	0.21
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	37,179	13,245.00	130.12	0.36	67	5.06	1.8	1 01	0.54	074/054 102)	0.004
Dabigatran	37,179	12,478.69	122.59	0.34	87	6.97	2.34	-1.91	-0.54	0.74 ( 0.54, 1.02)	0.064
HAS-BLED Score: 3											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	34,578	11,415.89	120.59	0.33	116	10.16	3.35	-0.11	0.19	1.01 ( 0.76, 1.33)	0.969
Dabigatran	26,850	8,275.39	112.57	0.31	85	10.27	3.17	-0.11	0.19	1.01 ( 0.70, 1.33)	0.909



Table 7. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05	1								
Rivaroxaban	25,923	3,678.69	51.83	0.14	54	14.68	2.08	0	0	1.00 ( 0.69, 1.46)	1
Dabigatran	25,923	3,678.69	51.83	0.14	54	14.68	2.08	0	0	1.00 ( 0.09, 1.40)	1
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	05								
Rivaroxaban	25,923	8,530.15	120.19	0.33	92	10.79	3.55	0.65	0.42	1.08 ( 0.80, 1.46)	0.616
Dabigatran	25,923	7,989.80	112.57	0.31	81	10.14	3.12	0.05	0.42	1.08 ( 0.80, 1.40)	0.010
HAS-BLED Score: 4+	÷										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	14,408	4,177.54	105.9	0.29	61	14.6	4.23	****	* * * * *	0.78 ( 0.55, 1.11)	0.167
Dabigatran	11,872	3,408.19	104.86	0.29	* * * * *	****	****			0.78 ( 0.55, 1.11)	0.107
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05	1								
Rivaroxaban	11,241	1,440.71	46.81	0.13	****	****	****	-2.08	-0.27	0.93 ( 0.59, 1.45)	0.733
Dabigatran	11,241	1,440.71	46.81	0.13	****	****	****	-2.08	-0.27	0.95 (0.59, 1.45)	0.755
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	05								
Rivaroxaban	11,241	3,264.82	106.08	0.29	48	14.7	4.27	****	****		0 211
Dabigatran	11,241	3,248.88	105.56	0.29	****	****	****			0.78 (0.54, 1.15)	0.211

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 8. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analysi</b>	s (Site-adjusted	only)									
Rivaroxaban	111,816	37,792.24	123.45	0.34	298	7.89	2.67	-1.29	0.15	0.94 ( 0.79, 1.13)	0.532
Apixaban	77,232	21,151.93	100.03	0.27	194	9.17	2.51	-1.29	0.15	0.94 (0.79, 1.15)	0.552
1:1 Matched Condit	ional Analysis;	Caliper= 0.05 <sup>1</sup>	L								
Rivaroxaban	75,889	10,853.49	52.24	0.14	127	11.7	1.67	0.00	0.01	1 01 ( 0 70 1 20)	0.05
Apixaban	75,889	10,853.49	52.24	0.14	126	11.61	1.66	0.09	0.01	1.01 (0.79, 1.29)	0.95
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	75,889	25,335.44	121.94	0.33	212	8.37	2.79	-0.74	0.29	1.00 ( 0.82, 1.22)	0.987
Apixaban	75,889	20,856.28	100.38	0.27	190	9.11	2.5	-0.74	0.29	1.00 ( 0.82, 1.22)	0.987



Table 9. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analysi	is (Site-adjusted	d only)									
Rivaroxaban	95,580	32,365.36	123.68	0.34	238	7.35	2.49	-0.89	0.22	0.98 ( 0.80, 1.21)	0.872
Apixaban	64,648	17,827.12	100.72	0.28	147	8.25	2.27	-0.69	0.22	0.98 ( 0.80, 1.21)	0.872
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	63,624	9,121.46	52.36	0.14	105	11.51	1.65	1 22	0.10	1 1 2 / 0 05 1 40)	0.204
Apixaban	63,624	9,121.46	52.36	0.14	93	10.2	1.46	1.32	0.19	1.13 (0.85, 1.49)	0.394
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	.05								
Rivaroxaban	63,624	21,305.34	122.31	0.33	168	7.89	2.64	0.25	0.20	1 04 / 0 02 1 20	0 710
Apixaban	63,624	17,596.51	101.02	0.28	145	8.24	2.28	-0.35	0.36	1.04 ( 0.83, 1.30)	0.719
Antiplatelets											
Unmatched Analysi	is (Site-adjusted	d only)									
Rivaroxaban	16,236	5,426.88	122.08	0.33	60	11.06	3.7	2.09	-0.04		0.389
Apixaban	12,584	3,324.81	96.5	0.26	47	14.14	3.73	-3.08	-0.04	0.84 (0.57, 1.24)	0.389
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,067	1,679.34	50.83	0.14	28	16.67	2.32	0.6	0.00		0.005
Apixaban	12,067	1,679.34	50.83	0.14	29	17.27	2.4	-0.6	-0.08	0.97 (0.57, 1.62)	0.895
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	.05								
Rivaroxaban	12,067	3,968.32	120.12	0.33	43	10.84	3.56	2.2	0.17		0.200
Apixaban	12,067	3,207.14	97.08	0.27	45	14.03	3.73	-3.2	-0.17	0.83 (0.55, 1.27)	0.398



Table 10. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex

			_			Incidence		Incidence Rate			
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	59,919	19,861.98	121.07	0.33	135	6.8	2.25	-1.5	-0.02	0.90(0.69, 1.17)	0.429
Apixaban	40,104	10,966.23	99.88	0.27	91	8.3	2.27	-1.5	-0.02	0.90 ( 0.09, 1.17)	0.429
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	39,359	5,660.85	52.53	0.14	57	10.07	1.45	0.18	0.03	1.02 ( 0.70, 1.47)	0.925
Apixaban	39,359	5,660.85	52.53	0.14	56	9.89	1.42	0.16	0.05	1.02 ( 0.70, 1.47)	0.925
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	39,359	12,870.32	119.44	0.33	85	6.6	2.16	-1.55	-0.08	0.88 ( 0.65, 1.19)	0.403
Apixaban	39,359	10,795.76	100.18	0.27	88	8.15	2.24	-1.55	-0.08	0.88 ( 0.05, 1.19)	0.405
Sex: Female											
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	51,897	17,930.26	126.19	0.35	163	9.09	3.14	-1.02	0.37	0.99 ( 0.77, 1.27)	0.936
Apixaban	37,128	10,185.70	100.2	0.27	103	10.11	2.77	-1.02	0.57	0.99 (0.77, 1.27)	0.930
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	36,358	5,215.49	52.39	0.14	75	14.38	2.06	2.3	0.33	1.19 ( 0.85, 1.66)	0.308
Apixaban	36,358	5,215.49	52.39	0.14	63	12.08	1.73	2.3	0.55	1.19 (0.03, 1.00)	0.508
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	36,358	12,417.29	124.74	0.34	126	10.15	3.47	0.16	0.72	1.11 ( 0.85, 1.44)	0.45
Apixaban	36,358	10,013.53	100.6	0.28	100	9.99	2.75	0.10	0.72	1.11(0.03, 1.44)	0.45



Table 11. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

						Incidence		Incidence Rate			
			Average	Average		Rate per		Difference	Difference in		
		Person	Person	Person		1,000	Risk per	per 1,000	Risk per	Hazard Ratio	
	Number of	Years	Days	Years	Number of	Person-	1,000	Person-	1,000	(95% Confidence	Wald P-Value
Medical Product Age Group: 65-74	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
Unmatched Analysi	ic (Sito adjustos	l onlu)									
Rivaroxaban	57,787	19,909.37	125.84	0.34	116	5.83	2.01				
		•			-			-0.91	0.14	0.96 ( 0.71, 1.29)	0.788
Apixaban	38,032	10,540.22	101.23 1	0.28	71	6.74	1.87				
1:1 Matched Condi											
Rivaroxaban	37,491	5,480.65	53.39	0.15	47	8.58	1.25	-0.73	-0.11	0.92 ( 0.62, 1.37)	0.686
Apixaban	37,491	5,480.65	53.39	0.15	51	9.31	1.36		-		
1:1 Matched Uncon	nditional Analys	sis; Caliper= 0.0	05								
Rivaroxaban	37,491	12,780.59	124.51	0.34	79	6.18	2.11	-0.63	0.21	1.01 ( 0.73, 1.39)	0.963
Apixaban	37,491	10,423.04	101.54	0.28	71	6.81	1.89	-0.03	0.21	1.01 ( 0.75, 1.59)	0.903
Age Group: 75-84											
Unmatched Analysi	is (Site-adjusted	l only)									
Rivaroxaban	44,196	14,954.61	123.59	0.34	144	9.63	3.26	0.04	0.20	4 00 ( 0 77 4 20)	0.000
Apixaban	31,939	8,784.27	100.46	0.28	92	10.47	2.88	-0.84	0.38	1.00 (0.77, 1.30)	0.986
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	30,797	4,378.82	51.93	0.14	67	15.3	2.18	0.c=			
Apixaban	30,797	4,378.82	51.93	0.14	51	11.65	1.66	3.65	0.52	1.31 (0.91, 1.89)	0.142
1:1 Matched Uncon	nditional Analys	sis; Caliper= 0.0	05								
Rivaroxaban	30,797	10,287.68	122.01	0.33	107	10.4	3.47				
Apixaban	30,797	, 8,504.11	100.86	0.28	89	10.47	2.89	-0.06	0.58	1.07 (0.80, 1.41)	0.662
Age Group: 85+	,	,									
Unmatched Analysi	is (Site-adjusted	l only)									
Rivaroxaban	9,833	2,928.27	108.77	0.3	38	12.98	3.86	_	_		_
Apixaban	7,261	1,827.44	91.93	0.25	31	16.96	4.27	-3.99	-0.4	0.82 (0.51, 1.32)	0.42



Table 11. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Rivaroxaban	7,020	898.42	46.74	0.13	14	15.58	1.99	-7.79	-1	0.67 ( 0.34, 1.31)	0.24
Apixaban	7,020	898.42	46.74	0.13	21	23.37	2.99	-7.79	-1	0.07 (0.34, 1.31)	0.24
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	7,020	2,078.32	108.13	0.3	25	12.03	3.56	4 27	0.57	079/046 124)	0.276
Apixaban	7,020	1,779.64	92.59	0.25	29	16.3	4.13	-4.27	-0.57	0.78 (0.46, 1.34)	0.376



Table 12. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor					LVEIIUS	16013	New Osers	Tears		intervalj	F-Value
Unmatched Analys		onlv)									
Rivaroxaban	3,845	1,253.20	119.05	0.33	****	****	****				
Apixaban	2,079	586.61	103.06	0.28	****	****	****	-1.92	-0.4	0.71 (0.16, 3.16)	0.649
1:1 Matched Condi	,	Caliper= 0.05	5 <sup>1</sup>								
Rivaroxaban	2,044	303.26	54.19	0.15	****	****	****				
Apixaban	2,044	303.26	54.19	0.15	****	****	****	-3.3	-0.49	0.50 ( 0.05, 5.51)	0.571
1:1 Matched Uncor	nditional Analys	is; Caliper= 0	0.05								
Rivaroxaban	2,044	650.49	116.24	0.32	* * * * *	****	* * * * *	0.00	0		0.004
Apixaban	2,044	578.58	103.39	0.28	****	****	* * * * *	-0.38	0	0.99 ( 0.14, 7.02)	0.991
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 2										
Unmatched Analys	is (Site-adjusted	only)									
Rivaroxaban	18,983	6,664.10	128.22	0.35	****	****	****	-0.05	0.22	1.07 ( 0.56, 2.04)	0.846
Apixaban	11,656	3,412.18	106.92	0.29	* * * * *	****	****	-0.05	0.22	1.07 (0.56, 2.04)	0.640
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	5 <sup>1</sup>								
Rivaroxaban	11,587	1,764.71	55.63	0.15	* * * * *	****	****	0.57	0.09	1.10 ( 0.47, 2.59)	0.827
Apixaban	11,587	1,764.71	55.63	0.15	* * * * *	****	****	0.57	0.05	1.10 ( 0.47, 2.33)	0.027
1:1 Matched Uncor	nditional Analys	is; Caliper= 0	0.05								
Rivaroxaban	11,587	4,053.59	127.78	0.35	* * * * *	****	* * * * *	-1.16	-0.17	0.77 ( 0.36, 1.68)	0.518
Apixaban	11,587	3,397.62	107.1	0.29	****	****	****	-1.10	-0.17	0.77 (0.30, 1.08)	0.310
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 3										
Unmatched Analys	is (Site-adjusted	only)									
Rivaroxaban	28,194	9,822.58	127.25	0.35	47	4.78	1.67	0.33	0.39	1.17 (0.71, 1.91)	0.535
Apixaban	18,753	5,384.17	104.87	0.29	24	4.46	1.28	0.00	0.55	1.17 (0.71, 1.91)	0.555



Table 12. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	, <sup>1</sup>								
Rivaroxaban	18,534	2,789.63	54.98	0.15	22	7.89	1.19	2.15	0.22	1 27 ( 0 72 2 62)	0.332
Apixaban	18,534	2,789.63	54.98	0.15	16	5.74	0.86	2.15	0.32	1.37 (0.72, 2.62)	0.332
1:1 Matched Uncon	nditional Analys	is; Caliper= 0	.05								
Rivaroxaban	18,534	6,379.88	125.73	0.34	37	5.8	2	1 0	0.7	1 20 / 0 22 2 21	0 224
Apixaban	18,534	5,333.47	105.11	0.29	24	4.5	1.29	1.3	0.7	1.38 (0.82, 2.31)	0.224
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 4										
Unmatched Analysi	's (Site-adjustea	only)									
Rivaroxaban	27,248	9,387.62	125.84	0.34	74	7.88	2.72	-0.83	0.33	0.99 ( 0.68, 1.44)	0.966
Apixaban	18,872	5,161.97	99.91	0.27	45	8.72	2.38	-0.85	0.55	0.99 (0.08, 1.44)	0.900
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	18,616	2,684.04	52.66	0.14	29	10.8	1.56	0.37	0.05	1.04 ( 0.62, 1.74)	0.895
Apixaban	18,616	2,684.04	52.66	0.14	28	10.43	1.5	0.57	0.05	1.04 (0.02, 1.74)	0.895
1:1 Matched Uncon	nditional Analys	is; Caliper= 0	.05								
Rivaroxaban	18,616	6,338.77	124.37	0.34	46	7.26	2.47	-1.56	0.05	0.89 ( 0.59, 1.34)	0.571
Apixaban	18,616	5,102.06	100.1	0.27	45	8.82	2.42	-1.50	0.05	0.89 (0.39, 1.34)	0.371
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 5										
Unmatched Analysi	s (Site-adjustea	only)									
Rivaroxaban	17,765	5,772.68	118.69	0.32	61	10.57	3.43	-2.35	0.01	0.89 ( 0.61, 1.31)	0.559
Apixaban	13,134	3,482.85	96.86	0.27	45	12.92	3.43	2.55	0.01	0.05 ( 0.01, 1.51)	0.555
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,727	1,739.85	49.93	0.14	27	15.52	2.12	2.3	0.31	1.17 ( 0.67, 2.05)	0.572
Apixaban	12,727	1,739.85	49.93	0.14	23	13.22	1.81	2.5	0.51	1.17 (0.07, 2.03)	0.372
1:1 Matched Uncon	nditional Analys	is; Caliper= 0	.05								
Rivaroxaban	12,727	4,083.95	117.2	0.32	45	11.02	3.54	-1.07	0.31	0.99 ( 0.65, 1.51)	0.965
Apixaban	12,727	3,392.42	97.36	0.27	41	12.09	3.22	-1.07	0.31	0.00 (0.00, 1.01)	0.505



Table 12. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 6+										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	15,781	4,892.05	113.23	0.31	85	17.38	5.39	-2.79	0.44	0.96 ( 0.69, 1.34)	0.817
Apixaban	12,738	3,124.16	89.58	0.25	63	20.17	4.95	-2.79	0.44	0.90 (0.09, 1.54)	0.817
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	<b>5</b> <sup>1</sup>								
Rivaroxaban	12,024	1,533.47	46.58	0.13	39	25.43	3.24	2.64	0.22	0.01 ( 0.50 1.40)	0.650
Apixaban	12,024	1,533.47	46.58	0.13	43	28.04	3.58	-2.61	-0.33	0.91(0.59, 1.40)	0.659
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0	.05								
Rivaroxaban	12,024	3,714.25	112.83	0.31	69	18.58	5.74	4.24	0.02	4 0 4 ( 0 7 2 4 4 0 )	0.020
Apixaban	12,024	2,977.02	90.43	0.25	59	19.82	4.91	-1.24	0.83	1.04 (0.73, 1.48)	0.828

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 13. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	1									-	
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	10,937	3,780.12	126.24	0.35	23	6.08	2.1	****	* * * * *	1 01 / 0 77 4 21	0 171
Apixaban	6,486	1,848.42	104.09	0.28	****	****	****			1.81 (0.77, 4.21)	0.171
1:1 Matched Condit	ional Analysis;	Caliper= 0.05	1								
Rivaroxaban	6,472	974.13	54.98	0.15	****	****	****	1.00	0.45		0 700
Apixaban	6,472	974.13	54.98	0.15	****	****	****	1.03	0.15	1.25 (0.34, 4.65)	0.739
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	6,472	2,221.82	125.39	0.34	****	****	****	0.2	0.45	4.04/0.27 2.00)	0.047
Apixaban	6,472	1,843.56	104.04	0.28	****	****	****	-0.2	0.15	1.04 ( 0.37, 2.86)	0.947
HAS-BLED Score: 2											
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	51,220	18,227.38	129.98	0.36	97	5.32	1.89	-1.96	-0.21	0.79 ( 0.58, 1.08)	0.137
Apixaban	33,272	9,611.59	105.51	0.29	70	7.28	2.1	-1.90	-0.21	0.79 (0.58, 1.08)	0.157
1:1 Matched Condit	ional Analysis;	Caliper= 0.05	1								
Rivaroxaban	33,228	4,987.09	54.82	0.15	47	9.42	1.41	0.4	0.00	0.00(0.00, 1.42)	0.020
Apixaban	33,228	4,987.09	54.82	0.15	49	9.83	1.47	-0.4	-0.06	0.96 (0.64, 1.43)	0.838
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	33,228	11,741.85	129.07	0.35	72	6.13	2.17	-1.16	0.00		0 5 1 7
Apixaban	33,228	9,602.88	105.56	0.29	70	7.29	2.11	-1.10	0.06	0.90 (0.64, 1.25)	0.517
HAS-BLED Score: 3											
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	35,069	11,549.72	120.29	0.33	116	10.04	3.31	1.1	0.91	1.22 ( 0.89, 1.67)	0.214
Apixaban	25,062	6,708.68	97.77	0.27	60	8.94	2.39	1.1	0.91	1.22 (0.09, 1.07)	0.214



Table 13. Effect Estimates for Risk of Thromboembolic Stroke among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

								Incidence			
			Average	Average		Incidence Rate per		Rate Difference	Difference in		
		Person	Person	Person		1,000	Risk per	per 1,000	Risk per	Hazard Ratio	
	Number of	Years	Days	Years	Number of	Person-	1,000	Person-	1,000	(95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
1:1 Matched Conditi	ional Analysis; (	Caliper= 0.05	$\frac{1}{2}$								
Rivaroxaban	24,588	3,454.66	51.32	0.14	45	13.03	1.83	1.74	0.24	1.15 ( 0.75, 1.77)	0.513
Apixaban	24,588	3,454.66	51.32	0.14	39	11.29	1.59	1.74	0.24	1.15 (0.75, 1.77)	0.313
1:1 Matched Uncon	ditional Analysi	is; Caliper= 0	.05								
Rivaroxaban	24,588	8,043.89	119.49	0.33	81	10.07	3.29	0.97	0.85	1 21 / 0 96 1 60)	0.271
Apixaban	24,588	6,594.90	97.97	0.27	60	9.1	2.44	0.97	0.85	1.21 (0.86, 1.69)	0.271
HAS-BLED Score: 4+											
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	14,590	4,235.01	106.02	0.29	62	14.64	4.25	* * * * *	* * * * *		0.374
Apixaban	12,412	2,983.24	87.79	0.24	****	****	****			0.85 ( 0.59, 1.22)	0.374
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	51								
Rivaroxaban	11,496	1,409.49	44.78	0.12	****	****	****	4.07	0.61	0 0 0 / 0 5 1 1 2 1	0.4
Apixaban	11,496	1,409.49	44.78	0.12	****	****	****	-4.97	-0.61	0.82 (0.51, 1.31)	0.4
1:1 Matched Uncon	ditional Analysi	is; Caliper= 0	.05								
Rivaroxaban	11,496	3,293.70	104.65	0.29	* * * * *	****	****	2 1 7	0.00	0.01/0.02 1.25	0.646
Apixaban	11,496	2,787.01	88.55	0.24	****	****	****	-3.17	-0.09	0.91 (0.62, 1.35)	0.646

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 14. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	sis (Site-adjuste	d only)									
Dabigatran	84,562	26,877.42	116.09	0.32	246	9.15	2.91	0.11	0.44	1.11 ( 0.92, 1.34)	0.292
Apixaban	76,887	21,016.72	99.84	0.27	190	9.04	2.47	0.11	0.44	1.11(0.92, 1.54)	0.292
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	69,054	9,442.44	49.94	0.14	130	13.77	1.88	2.01	0.20	1 17/001 1 51	0 221
Apixaban	69,054	9,442.44	49.94	0.14	111	11.76	1.61	2.01	0.28	1.17 (0.91, 1.51)	0.221
1:1 Matched Unco	nditional Analy	sis; Caliper=	0.05								
Dabigatran	69,054	21,886.65	115.77	0.32	208	9.5	3.01	0.5	0.54	1 15 ( 0 02 1 40)	0 101
Apixaban	69,054	19,001.49	100.51	0.28	171	9	2.48	0.5	0.54	1.15 ( 0.93, 1.40)	0.191



Table 15. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets										•	
Unmatched Analysi	is (Site-adjusted	only)									
Dabigatran	71,477	22,739.81	116.2	0.32	188	8.27	2.63	0.10	0.44	1 1 2 ( 0 0 0 1 1 0 )	0.202
Apixaban	64,349	17,708.30	100.51	0.28	143	8.08	2.22	0.19	0.41	1.12 ( 0.90, 1.40)	0.292
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Dabigatran	58,127	7,954.50	49.98	0.14	105	13.2	1.81	2 1 4	0.20	1 10 / 0 00 1 50	0 222
Apixaban	58,127	7,954.50	49.98	0.14	88	11.06	1.51	2.14	0.29	1.19 ( 0.90, 1.58)	0.222
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.0	05								
Dabigatran	58,127	18,436.38	115.85	0.32	161	8.73	2.77	0.46	0.48		0.226
Apixaban	58,127	16,084.70	101.07	0.28	133	8.27	2.29	0.46	0.48	1.15 ( 0.92, 1.45)	0.226
Antiplatelets											
Unmatched Analysi	is (Site-adjusted	only)									
Dabigatran	13,085	4,137.62	115.5	0.32	58	14.02	4.43	-0.19	0.68	1.07 ( 0.72, 1.57)	0.743
Apixaban	12,538	3,308.42	96.38	0.26	47	14.21	3.75	-0.19	0.08	1.07 (0.72, 1.57)	0.745
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Dabigatran	10,645	1,416.73	48.61	0.13	31	21.88	2.91	4.94	0.66	1 20 / 0 76 2 20)	0.347
Apixaban	10,645	1,416.73	48.61	0.13	24	16.94	2.25	4.94	0.00	1.29 ( 0.76, 2.20)	0.347
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.0	05								
Dabigatran	10,645	3,350.41	114.96	0.31	46	13.73	4.32	0.71	0.85	1.12 ( 0.72, 1.73)	0.621
Apixaban	10,645	2,842.50	97.53	0.27	37	13.02	3.48	0.71	0.05	1.12 (0.72, 1.73)	0.021



Table 16. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex

		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Incidence Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
	Number of	Years	Days	Years	Number of	Person-	1,000	Person-	1,000	(95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
Sex: Male											
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	43,693	13,759.20	115.02	0.31	110	7.99	2.52	-0.01	0.34	1.09 ( 0.82, 1.45)	0.54
Apixaban	39,862	10,869.87	99.6	0.27	87	8	2.18	0.01	0.54	1.05 ( 0.02, 1.45)	0.54
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	35,590	4,924.68	50.54	0.14	61	12.39	1.71	1 0 2	0.14	1.09 ( 0.76, 1.57)	0.644
Apixaban	35,590	4,924.68	50.54	0.14	56	11.37	1.57	1.02 0.14	0.14	1.09 ( 0.70, 1.37)	0.044
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Dabigatran	35,590	11,231.79	115.27	0.32	93	8.28	2.61	0.2	0.20	1 11 / 0 02 1 50	0.400
Apixaban	35,590	9,775.76	100.33	0.27	79	8.08	2.22	0.2	0.39	1.11 ( 0.82, 1.50)	0.488
Sex: Female											
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	40,869	13,118.22	117.24	0.32	136	10.37	3.33	0.22	0.55	1.12 ( 0.87, 1.45)	0.389
Apixaban	37,025	10,146.86	100.1	0.27	103	10.15	2.78	0.22	0.55	1.12(0.87, 1.45)	0.389
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	33,046	4,469.73	49.4	0.14	78	17.45	2.36	4.00	0.67	1 20 / 0 00 1 00	0.050
Apixaban	33,046	4,469.73	49.4	0.14	56	12.53	1.69	4.92	0.67	1.39 ( 0.99, 1.96)	0.059
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Dabigatran	33,046	10,520.50	116.28	0.32	114	10.84	3.45	0.70	0.67	1 1 ( ) 0 0 1 5 2	0.204
Apixaban	33,046	9,104.61	100.63	0.28	92	10.1	2.78	0.73	0.67	1.16 (0.88, 1.53)	0.284



Table 17. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

			Average	Average		Incidence Rate per		Incidence Rate Difference	Difference in		
	Number of	Person Years	Person Days	Person Years	Number of	1,000 Person-	Risk per 1,000	per 1,000 Person-	Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
Age Group: 65-74											
Unmatched Analysi	, ,										
Dabigatran	40,753	13,154.60	117.9	0.32	92	6.99	2.26	0.31	0.41	1.14 ( 0.84, 1.56)	0.403
Apixaban	37,862	10,478.49	101.08	0.28	70	6.68	1.85			(,	
1:1 Matched Condi											
Dabigatran	33,356	4,660.42	51.03	0.14	57	12.23	1.71	3.22	0.45	1.36 ( 0.91, 2.02)	0.133
Apixaban	33,356	4,660.42	51.03	0.14	42	9.01	1.26	0	0110	1.00 ( 0.01) 1.01)	01200
1:1 Matched Uncor											
Dabigatran	33,356	10,747.87	117.69	0.32	79	7.35	2.37	0.49	0.45	1.15 ( 0.83, 1.61)	0.397
Apixaban	33,356	9,328.57	102.15	0.28	64	6.86	1.92	0.45	0.45	1.13 ( 0.03, 1.01)	0.337
Age Group: 75-84											
Unmatched Analysi	is (Site-adjuste	d only)									
Dabigatran	34,534	11,104.31	117.45	0.32	114	10.27	3.3	0.06	0.5	1.12 ( 0.85, 1.48)	0.433
Apixaban	31,785	8,721.71	100.22	0.27	89	10.2	2.8	0.00	0.5	1.12 ( 0.03, 1.40)	0.435
1:1 Matched Condi	tional Analysis;	; Caliper= 0.05	1								
Dabigatran	27,960	3,842.44	50.19	0.14	62	16.14	2.22	3.64	0.5	1.29 ( 0.89, 1.88)	0.183
Apixaban	27,960	3,842.44	50.19	0.14	48	12.49	1.72	5.04	0.5	1.29 (0.89, 1.88)	0.105
1:1 Matched Uncor	nditional Analy	sis; Caliper= 0.	05								
Dabigatran	27,960	8,966.28	117.13	0.32	97	10.82	3.47	0.84	0.72	1.20 ( 0.89, 1.62)	0.23
Apixaban	27,960	7,715.29	100.79	0.28	77	9.98	2.75	0.64	0.72	1.20 ( 0.89, 1.82)	0.25
Age Group: 85+											
Unmatched Analysi	is (Site-adjuste	d only)									
Dabigatran	9,275	2,618.52	103.12	0.28	40	15.28	4.31	-1.79	0.03	0.94 ( 0.58, 1.50)	0.788
Apixaban	7,240	1,816.52	91.64	0.25	31	17.07	4.28	-1./9	0.05	0.54 (0.56, 1.50)	0.700
1:1 Matched Condi	tional Analysis;	; Caliper= 0.05	1								
Dabigatran	6,751	810.25	43.84	0.12	14	17.28	2.07	-3.7	-0.44		0.591
Apixaban	6,751	810.25	43.84	0.12	17	20.98	2.52	-3./	-0.44	0.82 (0.41, 1.67)	0.291



Table 17. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analys	is; Caliper= 0	.05								
Dabigatran	6,751	1,880.79	101.76	0.28	28	14.89	4.15	2 10	0.15		0.640
Apixaban	6,751	1,698.15	91.87	0.25	29	17.08	4.3	-2.19	-0.15	0.89 (0.52, 1.49)	0.649



Table 18. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 0-1										
Unmatched Analysis	s (Site-adjusted	only)									
Dabigatran	2,775	860.22	113.22	0.31	****	****	****	-1.68	-0.38	0.74 ( 0.15, 3.68)	0.714
Apixaban	2,050	581.06	103.53	0.28	****	****	****	-1.08	-0.38	0.74 (0.15, 3.08)	0.714
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Dabigatran	1,959	269.58	50.26	0.14	****	****	****	-3.71	-0.51	0.50 ( 0.05, 5.51)	0.571
Apixaban	1,959	269.58	50.26	0.14	****	****	****	-3./1	-0.51	0.50 ( 0.05, 5.51)	0.571
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Dabigatran	1,959	611.11	113.94	0.31	****	****	****	-2.1	-0.51	0.66 ( 0.11, 3.98)	0.655
Apixaban	1,959	558.56	104.14	0.29	****	****	****	-2.1	-0.51	0.00 (0.11, 5.98)	0.055
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 2										
Unmatched Analysis	s (Site-adjusted	only)									
Dabigatran	12,962	4,152.11	117	0.32	* * * * *	****	****	0.19	0.18	1.04 ( 0.51, 2.12)	0.906
Apixaban	11,594	3,380.86	106.51	0.29	* * * * *	****	* * * * *	0.19	0.18	1.04 ( 0.31, 2.12)	0.900
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Dabigatran	10,670	1,535.13	52.55	0.14	* * * * *	****	* * * * *	1.95	0.28	1.37 ( 0.55, 3.42)	0.493
Apixaban	10,670	1,535.13	52.55	0.14	* * * * *	****	****	1.95	0.28	1.57 (0.55, 5.42)	0.495
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Dabigatran	10,670	3,418.60	117.02	0.32	* * * * *	****	****	0.81	0.37	1.18 ( 0.57, 2.46)	0.659
Apixaban	10,670	3,120.74	106.83	0.29	* * * * *	****	* * * * *	0.81	0.37	1.18 ( 0.37, 2.40)	0.039
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 3										
Unmatched Analysis	s (Site-adjusted	only)									
Dabigatran	19,816	6,490.63	119.64	0.33	45	6.93	2.27	2.82	1.09	1.85 ( 1.11, 3.08)	0.019
Apixaban	18,659	5,353.49	104.79	0.29	22	4.11	1.18	2.02	1.05	1.05 ( 1.11, 5.08)	0.019
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Dabigatran	16,641	2,371.64	52.05	0.14	28	11.81	1.68	6.75	0.96	2.33 ( 1.19, 4.59)	0.014
Apixaban	16,641	2,371.64	52.05	0.14	12	5.06	0.72	0.75	0.90	2.33 ( 1.13, 4.39)	0.014



Table 18. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

						Incidence		Incidence Rate			
			Average	Average		Rate per		Difference	Difference in		
		Person	Person	Person		1,000	Risk per	per 1,000	Risk per	Hazard Ratio	
	Number of	Years	Days	Years	Number of	Person-	1,000	Person-	1,000	(95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.(	)5								
Dabigatran	16,641	5,439.00	119.38	0.33	37	6.8	2.22	2.21	0.9	165 (007 270)	0.065
Apixaban	16,641	4,792.91	105.2	0.29	22	4.59	1.32	2.21	0.9	1.65 ( 0.97, 2.79)	0.065
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	e: 4										
Unmatched Analysis	s (Site-adjusted	only)									
Dabigatran	21,646	7,105.08	119.89	0.33	61	8.59	2.82	-0.39	0.37	1.07 ( 0.73, 1.57)	0.735
Apixaban	18,800	5,123.62	99.54	0.27	46	8.98	2.45	-0.39	0.37	1.07 (0.73, 1.37)	0.755
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Dabigatran	17,117	2,367.47	50.52	0.14	38	16.05	2.22	5.49	0.76	1.52 ( 0.92, 2.52)	0.104
Apixaban	17,117	2,367.47	50.52	0.14	25	10.56	1.46	5.45	0.70	1.52 (0.92, 2.52)	0.104
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Dabigatran	17,117	5,626.09	120.05	0.33	54	9.6	3.15	1.28	0.88	1.28 ( 0.84, 1.94)	0.244
Apixaban	17,117	4,688.69	100.05	0.27	39	8.32	2.28	1.20	0.88	1.28 ( 0.84, 1.94)	0.244
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	e: 5										
Unmatched Analysis	s (Site-adjusted	only)									
Dabigatran	13,991	4,324.43	112.89	0.31	48	11.1	3.43	-1.59	0.08	0.96 ( 0.64, 1.46)	0.864
Apixaban	13,112	3,467.30	96.59	0.26	44	12.69	3.36	-1.55	0.08	0.90 (0.04, 1.40)	0.804
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Dabigatran	11,373	1,507.72	48.42	0.13	27	17.91	2.37	1.99	0.26	1.12 ( 0.65, 1.95)	0.675
			40.42	0.13	24	15.92	2.11	1.99	0.20	1.12 (0.05, 1.95)	0.075
Apixaban	11,373	1,507.72	48.42	0.15	24						
Apixaban 1:1 Matched Uncon	-			0.15	24						
•	-			0.31	37	10.6	3.25	-2 23	-0.18	090(057 1/1)	0 636
1:1 Matched Uncon Dabigatran Apixaban	ditional Analysis 11,373 11,373	s; Caliper= 0.0	05					-2.23	-0.18	0.90 ( 0.57, 1.41)	0.636
1:1 Matched Uncon Dabigatran	ditional Analysis 11,373 11,373	s; Caliper= 0.0 3,491.79	05 112.14	0.31	37	10.6	3.25	-2.23	-0.18	0.90 ( 0.57, 1.41)	0.636
1:1 Matched Uncon Dabigatran Apixaban	ditional Analysis 11,373 11,373 e: 6+	s; Caliper= 0.0 3,491.79 3,039.75	05 112.14	0.31	37	10.6 12.83	3.25	-2.23	-0.18	0.90 ( 0.57, 1.41)	0.636
1:1 Matched Uncom Dabigatran Apixaban CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	ditional Analysis 11,373 11,373 e: 6+	s; Caliper= 0.0 3,491.79 3,039.75	05 112.14	0.31	37	10.6	3.25	-2.23	-0.18	0.90 ( 0.57, 1.41)	0.636



Table 18. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Dabigatran	10,805	1,339.38	45.28	0.12	38	28.37	3.52	0.75	0.00	102/065 162)	0.908
Apixaban	10,805	1,339.38	45.28	0.12	37	27.62	3.42	0.75	0.09	1.03 (0.65, 1.62)	0.908
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Dabigatran	10,805	3,158.75	106.78	0.29	60	18.99	5.55	-1.21	0.56	1 02 / 0 71 1 50)	
Apixaban	10,805	2,672.77	90.35	0.25	54	20.2	5	-1.21	0.56	1.03 (0.71, 1.50)	0.858

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 19. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0	-1										
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	7,788	2,453.26	115.06	0.32	****	****	****	-0.54	-0.06	0.85 ( 0.30, 2.37)	0.749
Apixaban	6,455	1,841.15	104.18	0.29	****	****	****	-0.54	-0.06	0.85 (0.30, 2.37)	0.749
1:1 Matched Condi	tional Analysis;	: Caliper= 0.05	1								
Dabigatran	6,098	859.78	51.5	0.14	****	****	****	-2.33	-0.33	0.33 ( 0.03, 3.20)	0.341
Apixaban	6,098	859.78	51.5	0.14	****	****	****	-2.55	-0.55	0.55 (0.05, 5.20)	0.541
1:1 Matched Uncor	nditional Analy	sis; Caliper= 0.	.05								
Dabigatran	6,098	1,924.61	115.28	0.32	****	****	****	-1.42	-0.33		0.488
Apixaban	6,098	1,742.89	104.39	0.29	****	****	****	-1.42	-0.33	0.66 ( 0.21, 2.12)	0.488
HAS-BLED Score: 2											
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	38,021	12,735.60	122.34	0.33	90	7.07	2.37	-0.07	0.31	1.09 ( 0.79, 1.50)	0.59
Apixaban	33,078	9,534.18	105.28	0.29	68	7.13	2.06	-0.07	0.51	1.09 ( 0.79, 1.50)	0.59
1:1 Matched Condi	tional Analysis;	: Caliper= 0.05	1								
Dabigatran	30,531	4,396.15	52.59	0.14	51	11.6	1.67	2.27	0.33	1.24 ( 0.82, 1.88)	0.298
Apixaban	30,531	4,396.15	52.59	0.14	41	9.33	1.34	2.27	0.33	1.24 (0.82, 1.88)	0.298
1:1 Matched Uncor	nditional Analy	sis; Caliper= 0.	.05								
Dabigatran	30,531	10,198.85	122.01	0.33	72	7.06	2.36	-0.2	0.26	1.06 ( 0.76, 1.49)	0.729
Apixaban	30,531	8,811.10	105.41	0.29	64	7.26	2.1	-0.2	0.20	1.00 ( 0.76, 1.49)	0.729
HAS-BLED Score: 3											
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	26,875	8,280.22	112.53	0.31	85	10.27	3.16	1.28	0.76	1.24 ( 0.89, 1.73)	0.199
Apixaban	24,997	6,675.35	97.54	0.27	60	8.99	2.4	1.20	0.70	1.24 (0.09, 1.75)	0.155
1:1 Matched Condi	tional Analysis;	: Caliper= 0.05	1								
Dabigatran	22,081	2,971.20	49.15	0.13	48	16.16	2.17	3.7	0.5	1.30 ( 0.84, 1.99)	0.234
Apixaban	22,081	2,971.20	49.15	0.13	37	12.45	1.68	5.7	0.5	1.30 ( 0.64, 1.99)	0.254



Table 19. Effect Estimates for Risk of Thromboembolic Stroke among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

								Incidence			
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	Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncor	nditional Analys	is; Caliper= 0	.05								
Dabigatran	22,081	6,800.57	112.49	0.31	77	11.32	3.49	2.04	1	1 22 / 0 02 1 97	0 1 1 0
Apixaban	22,081	5,923.91	97.99	0.27	55	9.28	2.49	2.04	1	1.32 (0.93, 1.87)	0.119
HAS-BLED Score: 4	+										
Unmatched Analys	is (Site-adjusted	l only)									
Dabigatran	11,878	3,408.34	104.81	0.29	****	****	****	0.06		1 11 / 0 77 1 50)	0 5 9 4
Apixaban	12,357	2,966.03	87.67	0.24	****	****	****	-0.06	0.85	1.11 ( 0.77, 1.59)	0.584
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	5 <sup>1</sup>								
Dabigatran	9,997	1,222.69	44.67	0.12	****	****	****	0.00	0.1	1 02 / 0 02 1 00	0.0
Apixaban	9,997	1,222.69	44.67	0.12	****	****	****	0.82	0.1	1.03 ( 0.63, 1.69)	0.9
1:1 Matched Uncor	nditional Analys	is; Caliper= 0	.05								
Dabigatran	9,997	2,859.68	104.48	0.29	****	****	****	0.42	0.0		0 5 0 4
Apixaban	9,997	2,438.17	89.08	0.24	****	****	****	0.43	0.9	1.11 ( 0.75, 1.66)	0.594

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



 Table 20. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	is (Site-adjusted	d only)									
Rivaroxaban	110,113	37,287.25	123.68	0.34	1,687	45.24	15.32	5.07	2 5 5	1 14 / 1 OF 1 22)	<0.001
Dabigatran	84,473	26,858.70	116.13	0.32	1,079	40.17	12.77	5.07	2.55	1.14 (1.05, 1.23)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05									
Rivaroxaban	82,326	12,020.37	53.33	0.15	764	63.56	9.28	7.49	1.09	1.13 ( 1.02, 1.26)	0.018
Dabigatran	82,326	12,020.37	53.33	0.15	674	56.07	8.19	7.49	1.09	1.15 ( 1.02, 1.20)	0.018
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0	.05								
Rivaroxaban	82,326	27,774.62	123.23	0.34	1,312	47.24	15.94	7.95	3.41	1 21 / 1 12 1 22)	<0.001
Dabigatran	82,326	26,242.22	116.43	0.32	1,031	39.29	12.52	7.95	5.41	1.21 ( 1.12, 1.32)	<0.001



 Table 21. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analys	is (Site-adjusted	l only)									
Rivaroxaban	94,068	31,920.44	123.94	0.34	1,275	39.94	13.55	4.91	2.41	1.15 ( 1.05, 1.25)	0.002
Dabigatran	71,402	22,722.51	116.23	0.32	796	35.03	11.15	4.91	2.41	1.15 ( 1.05, 1.25)	0.002
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	69,758	10,226.98	53.55	0.15	584	57.1	8.37	7.72	1.13	1 1 6 / 1 0 2 1 20)	0.017
Dabigatran	69,758	10,226.98	53.55	0.15	505	49.38	7.24	1.12	1.13	1.16 ( 1.03, 1.30)	0.017
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	69,758	23,594.14	123.54	0.34	982	41.62	14.08	7 10	2.1	1 21 / 1 10 1 22)	-0.001
Dabigatran	69,758	22,245.22	116.48	0.32	766	34.43	10.98	7.19	3.1	1.21 ( 1.10, 1.33)	<0.001
Antiplatelets											
Unmatched Analys	is (Site-adjustea	l only)									
Rivaroxaban	16,045	5,366.81	122.17	0.33	412	76.77	25.68	8.35	4.03	1.15 ( 0.99, 1.34)	0.076
Dabigatran	13,071	4,136.20	115.58	0.32	283	68.42	21.65	8.35	4.03	1.15 ( 0.99, 1.34)	0.076
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,416	1,791.59	52.7	0.14	191	106.61	15.38	12.4	1.02	4 4 4 ( 0 0 2 4 4 4 )	0.205
Dabigatran	12,416	1,791.59	52.7	0.14	167	93.21	13.45	13.4	1.93	1.14 (0.93, 1.41)	0.205
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	12,416	4,137.37	121.71	0.33	328	79.28	26.42	10	F 22	1 22 ( 1 04 1 44)	0.017
Dabigatran	12,416	3,953.22	116.29	0.32	262	66.28	21.1	13	5.32	1.22 (1.04, 1.44)	0.017



 Table 22. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	58,957	19,586.52	121.34	0.33	764	39.01	12.96	5.84	2.51	1.19 ( 1.06, 1.34)	0.003
Dabigatran	43,649	13,750.04	115.06	0.32	456	33.16	10.45	5.64	2.51	1.19 ( 1.00, 1.54)	0.005
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	42,684	6,223.10	53.25	0.15	320	51.42	7.5	6.27	0.91	1.14 ( 0.97, 1.34)	0.112
Dabigatran	42,684	6,223.10	53.25	0.15	281	45.15	6.58	0.27	0.91	1.14 ( 0.97, 1.54)	0.112
1:1 Matched Uncon	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	42,684	14,091.00	120.58	0.33	566	40.17	13.26	7.32	2.91	1.23 ( 1.09, 1.40)	<0.001
Dabigatran	42,684	13,457.06	115.15	0.32	442	32.85	10.36	7.52	2.91	1.25 ( 1.09, 1.40)	<0.001
Sex: Female											
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	51,156	17,700.73	126.38	0.35	923	52.14	18.04	4.62	2.78	1.11 ( 1.00, 1.23)	0.048
Dabigatran	40,824	13,108.67	117.28	0.32	623	47.53	15.26	4.02	2.78	1.11 ( 1.00, 1.23)	0.046
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	39,269	5,728.64	53.28	0.15	434	75.76	11.05	13.96	2.04	1.23 ( 1.07, 1.41)	0.004
Dabigatran	39,269	5,728.64	53.28	0.15	354	61.79	9.01	12.90	2.04	1.23 (1.07, 1.41)	0.004
1:1 Matched Uncon	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	39,269	13,558.25	126.11	0.35	741	54.65	18.87	9.04	4.18	1.21 ( 1.08, 1.35)	<0.001
Dabigatran	39,269	12,651.02	117.67	0.32	577	45.61	14.69	3.04	4.10	1.21 ( 1.00, 1.53)	<0.001



 Table 23. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	sis (Site-adjuste	d only)									
Rivaroxaban	56,862	19,632.17	126.11	0.35	628	31.99	11.04	8.56	3.48	1.39 ( 1.21, 1.59)	<0.001
Dabigatran	40,695	13,143.72	117.97	0.32	308	23.43	7.57	8.50	3.48	1.39 ( 1.21, 1.39)	<0.001
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	1								
Rivaroxaban	39,926	5,941.38	54.35	0.15	276	46.45	6.91	12.40	1.05	1 27/1 14 1 (4)	-0.001
Dabigatran	39,926	5,941.38	54.35	0.15	202	34	5.06	12.46	1.85	1.37 (1.14, 1.64)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Rivaroxaban	39,926	13,763.29	125.91	0.34	455	33.06	11.4	40.22	4.04		-0.001
Dabigatran	39,926	12,914.53	118.14	0.32	295	22.84	7.39	10.22	4.01	1.47 (1.27, 1.70)	<0.001
Age Group: 75-84											
Unmatched Analys	sis (Site-adjuste	d only)									
Rivaroxaban	43,527	14,753.69	123.8	0.34	813	55.1	18.68	0.16	3.58	1 10 / 1 05 1 21)	0.004
Dabigatran	34,508	11,097.34	117.46	0.32	521	46.95	15.1	8.16	3.58	1.18 ( 1.05, 1.31)	0.004
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	1								
Rivaroxaban	33,403	4,890.12	53.47	0.15	385	78.73	11.53	14.01	2.1	1 22 / 1 05 1 42	0.000
Dabigatran	33,403	4,890.12	53.47	0.15	315	64.42	9.43	14.31	2.1	1.22 (1.05, 1.42)	0.008
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Rivaroxaban	33,403	11,304.40	123.61	0.34	633	56	18.95	0.45	2.05	1 20 / 1 07 1 25	0.000
Dabigatran	33,403	10,763.47	117.69	0.32	501	46.55	15	9.45	3.95	1.20 ( 1.07, 1.35)	0.002
Age Group: 85+											
Unmatched Analys	sis (Site-adjuste	d only)									
Rivaroxaban	9,724	2,901.39	108.98	0.3	246	84.79	25.3	-10.72	-1.67	0.90 ( 0.75, 1.07)	0.231
Dabigatran	9,270	2,617.65	103.14	0.28	250	95.51	26.97	-10.72	-1.07	0.50 (0.75, 1.07)	0.231
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	1								
Rivaroxaban	8,388	1,075.86	46.85	0.13	113	105.03	13.47	-16.73	-2.15	0.86 ( 0.67, 1.11)	0.25
Dabigatran	8,388	1,075.86	46.85	0.13	131	121.76	15.62	-10.73	-2.15	0.00(0.07, 1.11)	0.25



 Table 23. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analys	is; Caliper= 0	0.05								
Rivaroxaban	8,388	2,516.20	109.57	0.3	213	84.65	25.39	-8.12	0.05	0 0 2 / 0 7 6 1 1 1 1	0.405
Dabigatran	8,388	2,382.12	103.73	0.28	221	92.77	26.35	-0.12	-0.95	0.92 (0.76, 1.11)	0.405



Table 24. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	e: 0-1										
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	3,766	1,229.68	119.26	0.33	****	****	****	-1.88	-0.43	0.82 ( 0.36, 1.90)	0.648
Dabigatran	2,768	859.06	113.36	0.31	****	****	****	-1.00	-0.43	0.82 ( 0.50, 1.90)	0.048
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	2,726	395.41	52.98	0.15	****	****	****	5.06	0.73	1.33 ( 0.46, 3.84)	0.594
Dabigatran	2,726	395.41	52.98	0.15	****	****	****	5.00	0.75	1.55 ( 0.40, 5.64)	0.594
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	2,726	888.59	119.06	0.33	****	****	****	-0.52	0	0.94 ( 0.39, 2.25)	0.885
Dabigatran	2,726	849.07	113.76	0.31	****	****	****	-0.32	0	0.94 (0.39, 2.23)	0.885
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	e: 2										
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	18,605	6,550.83	128.6	0.35	* * * * *	****	****	3.32	1.67	1.25 ( 0.93, 1.68)	0.146
Dabigatran	12,943	4,148.21	117.06	0.32	****	****	****	5.52	1.07	1.25 ( 0.55, 1.00)	0.140
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	12,668	1,959.70	56.5	0.15	****	****	****	3.57	0.55	1.18 ( 0.77, 1.81)	0.448
Dabigatran	12,668	1,959.70	56.5	0.15	****	****	****	5.57	0.55	1.10(0.77, 1.01)	0.440
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	12,668	4,454.51	128.43	0.35	****	****	****	2.46	1.34	1.20 ( 0.86, 1.67)	0.285
Dabigatran	12,668	4,065.50	117.22	0.32	****	****	****	2.40	1.54	1.20 ( 0.80, 1.07)	0.205
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	e: 3										
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	27,766	9,689.18	127.46	0.35	301	31.07	10.84	2.69	1.54	1.10 ( 0.92, 1.33)	0.29
Dabigatran	19,794	6,483.95	119.65	0.33	184	28.38	9.3	2.05	1.54	1.10 ( 0.52, 1.55)	0.25
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	19,542	2,938.95	54.93	0.15	131	44.57	6.7	7.49	1.13	1.20 ( 0.93, 1.55)	0.156
Dabigatran	19,542	2,938.95	54.93	0.15	109	37.09	5.58	7.45	1.15	1.20 ( 0.33, 1.33)	0.150



Table 24. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

		Demon	Average	Average		Incidence Rate per	Dielenen	Incidence Rate Difference	Difference in	Hazard Ratio	
	Number of	Person Years	Person Days	Person Years	Number of	1,000 Person-	Risk per 1,000	per 1,000 Person-	Risk per 1,000	(95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	19,542	6,769.98	126.53	0.35	217	32.05	11.1	3.89	1.89	1 1 4 / 0 0 4 1 20)	0.188
Dabigatran	19,542	6,390.96	119.45	0.33	180	28.16	9.21	3.89	1.89	1.14 (0.94, 1.39)	0.188
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 4										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	26,827	9,260.57	126.08	0.35	428	46.22	15.95	9.46	3.89	1.27 ( 1.09, 1.49)	0.002
Dabigatran	21,631	7,101.32	119.91	0.33	261	36.75	12.07	9.40	5.69	1.27 (1.09, 1.49)	0.002
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	20,835	3,121.17	54.72	0.15	201	64.4	9.65	18.58	2.78	1.41 ( 1.13, 1.74)	0.002
Dabigatran	20,835	3,121.17	54.72	0.15	143	45.82	6.86	18.58	2.78	1.41 (1.13, 1.74)	0.002
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	20,835	7,191.33	126.07	0.35	333	46.31	15.98	10.65	4.22	1.31 ( 1.11, 1.55)	0.001
Dabigatran	20,835	6,870.31	120.44	0.33	245	35.66	11.76	10.05	4.22	1.31 ( 1.11, 1.55)	0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 5										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	17,526	5,714.86	119.1	0.33	407	71.22	23.22	14.08	5.55	1.25 ( 1.07, 1.47)	0.005
Dabigatran	13,980	4,323.18	112.95	0.31	247	57.13	17.67	14.00	5.55	1.25 (1.07, 1.47)	0.005
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	13,481	1,890.25	51.21	0.14	177	93.64	13.13	11.64	1.63	1 1 4 / 0 02 1 42	0.228
Dabigatran	13,481	1,890.25	51.21	0.14	155	82	11.5	11.04	1.03	1.14 (0.92, 1.42)	0.228
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	13,481	4,390.11	118.94	0.33	323	73.57	23.96	17 77	C AF	1 21 / 1 11 1 []	0.002
Dabigatran	13,481	4,188.73	113.49	0.31	236	56.34	17.51	17.23	6.45	1.31 ( 1.11, 1.55)	0.002
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 6+										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	15,623	4,842.13	113.2	0.31	413	85.29	26.44	6.42	3.15	1.08 ( 0.93, 1.25)	0.318
Dabigatran	13,357	3,942.98	107.82	0.3	311	78.87	23.28	0.42	5.15	1.00 ( 0.33, 1.23)	0.310



Table 24. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	12,542	1,656.93	48.25	0.13	200	120.71	15.95	4 00	0.64		0.686
Dabigatran	12,542	1,656.93	48.25	0.13	192	115.88	15.31	4.83	0.64	1.04 (0.85, 1.27)	0.080
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	12,542	3,905.66	113.74	0.31	340	87.05	27.11	8.04	3.75	1.10 ( 0.94, 1.29)	0.218
Dabigatran	12,542	3,708.01	107.99	0.3	293	79.02	23.36	0.04	5.75	1.10 ( 0.94, 1.29)	0.218

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



 Table 25. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	1										
Unmatched Analysi	s (Site-adjustea	l only)									
Rivaroxaban	10,726	3,711.82	126.4	0.35	68	18.32	6.34	-0.04	0.55	1.01 ( 0.69, 1.47)	0.968
Dabigatran	7,779	2,451.25	115.09	0.32	45	18.36	5.78	-0.04	0.55	1.01 (0.69, 1.47)	0.968
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	7,582	1,118.93	53.9	0.15	25	22.34	3.3	0	0		1
Dabigatran	7,582	1,118.93	53.9	0.15	25	22.34	3.3	0	0	1.00 ( 0.57, 1.74)	1
1:1 Matched Uncon	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	7,582	2,591.50	124.84	0.34	47	18.14	6.2	-0.27	0.4		0.932
Dabigatran	7,582	2,390.63	115.16	0.32	44	18.41	5.8	-0.27	0.4	0.98 (0.65, 1.48)	0.932
HAS-BLED Score: 2											
Unmatched Analysi	s (Site-adjustea	l only)									
Rivaroxaban	50,401	17,982.00	130.31	0.36	549	30.53	10.89	4.52	2.18	1.18 ( 1.03, 1.36)	0.016
Dabigatran	37,972	12,723.87	122.39	0.34	331	26.01	8.72	4.52	2.18	1.18 ( 1.03, 1.30)	0.016
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	37,179	5,705.52	56.05	0.15	256	44.87	6.89	10.34	1.59	1 20 / 1 09 1 56	0.006
Dabigatran	37,179	5,705.52	56.05	0.15	197	34.53	5.3	10.34	1.59	1.30 ( 1.08, 1.56)	0.006
1:1 Matched Uncon	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	37,179	13,245.00	130.12	0.36	418	31.56	11.24	6	2.66	1.24 ( 1.07, 1.44)	0.004
Dabigatran	37,179	12,478.69	122.59	0.34	319	25.56	8.58	0	2.00	1.24 (1.07, 1.44)	0.004
HAS-BLED Score: 3											
Unmatched Analysi	's (Site-adjustea	l only)									
Rivaroxaban	34,578	11,415.89	120.59	0.33	635	55.62	18.36	6.32	3.17	1.14 ( 1.01, 1.29)	0.036
Dabigatran	26,850	8,275.39	112.57	0.31	408	49.3	15.2	0.52	5.17	1.14 ( 1.01, 1.29)	0.030
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	25,923	3,678.69	51.83	0.14	292	79.38	11.26	12.78	1.81	1.19 ( 1.01, 1.41)	0.043
Dabigatran	25,923	3,678.69	51.83	0.14	245	66.6	9.45	12.70	1.01	1.15 ( 1.01, 1.41)	0.045



 Table 25. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Incidence Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
Mardia d Duaduat	Number of New Users	Years at Risk	Days at Risk	Years at Risk	Number of Events	Person- Years	1,000 New Users	Person- Years	1,000 New Users	(95% Confidence	Wald P-Value
Medical Product				dt KISK	Events	Tears	New Users	fears	New Users	Interval)	P-value
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Rivaroxaban	25,923	8,530.15	120.19	0.33	498	58.38	19.21	9.57	4.17	1.21 ( 1.06, 1.38)	0.005
Dabigatran	25,923	7,989.80	112.57	0.31	390	48.81	15.04	9.57	4.17	1.21 ( 1.00, 1.38)	0.005
HAS-BLED Score: 4+	F										
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	14,408	4,177.54	105.9	0.29	435	104.13	30.19	17 57	E 24	1 20 / 1 02 1 20)	0.016
Dabigatran	11,872	3,408.19	104.86	0.29	295	86.56	24.85	17.57	5.34	1.20 ( 1.03, 1.39)	0.016
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	11,241	1,440.71	46.81	0.13	205	142.29	18.24	15.06	2.05	1 1 2 / 0 0 2 1 2 0	0 242
Dabigatran	11,241	1,440.71	46.81	0.13	182	126.33	16.19	15.96	2.05	1.13 ( 0.92, 1.38)	0.243
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Rivaroxaban	11,241	3,264.82	106.08	0.29	343	105.06	30.51	10.0	F 07	1 22 / 1 05 1 44	0.012
Dabigatran	11,241	3,248.88	105.56	0.29	277	85.26	24.64	19.8	5.87	1.23 (1.05, 1.44)	0.012


 Table 26. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	sis (Site-adjuste	d only)									
Rivaroxaban	111,816	37,792.24	123.45	0.34	1,705	45.12	15.25	21.57	8.8	2.10 ( 1.90, 2.32)	<0.001
Apixaban	77,232	21,151.93	100.03	0.27	498	23.54	6.45	21.57	0.0	2.10 ( 1.90, 2.52)	<0.001
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	75,889	10,853.49	52.24	0.14	733	67.54	9.66	20 51	F F1	2 22 ( 2 04 - 2 66)	<0.001
Apixaban	75,889	10,853.49	52.24	0.14	315	29.02	4.15	38.51	5.51	2.33 (2.04, 2.66)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= (	).05								
Rivaroxaban	75,889	25,335.44	121.94	0.33	1,234	48.71	16.26	25.6	9.91	2.29 ( 2.06, 2.55)	<0.001
Apixaban	75,889	20,856.28	100.38	0.27	482	23.11	6.35	23.0	9.91	2.29 (2.00, 2.55)	×0.001



 Table 27. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

	Number of	Number of New Users	Person Years	Average Person Days	Average Person Years	Number of	Incidence Rate per 1,000 Person-	Risk per 1.000	Incidence Rate Difference per 1,000 Person-	Difference in Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product		at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value	
No Antiplatelets												
Unmatched Analys	is (Site-adjusted	d only)										
Rivaroxaban	95,580	32,365.36	123.68	0.34	1,289	39.83	13.49	19.13	7.78	2.09 ( 1.86, 2.35)	<0.001	
Apixaban	64,648	17,827.12	100.72	0.28	369	20.7	5.71	19.15	7.78	2.09 ( 1.80, 2.33)	<0.001	
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1									
Rivaroxaban	63,624	9,121.46	52.36	0.14	529	58	8.31	32.89	4.72	2.31 ( 1.98, 2.70)	<0.001	
Apixaban	63,624	9,121.46	52.36	0.14	229	25.11	3.6	52.09	4.72	2.51 ( 1.96, 2.70)	<0.001	
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05									
Rivaroxaban	63,624	21,305.34	122.31	0.33	899	42.2	14.13	22.02	0 55		<0.001	
Apixaban	63,624	17,596.51	101.02	0.28	355	20.17	5.58	22.02	8.55	2.26 ( 2.00, 2.56)	<0.001	
Antiplatelets												
Unmatched Analys	is (Site-adjusted	d only)										
Rivaroxaban	16,236	5,426.88	122.08	0.33	416	76.66	25.62	37.86	15.37	2.23 ( 1.83, 2.72)	<0.001	
Apixaban	12,584	3,324.81	96.5	0.26	129	38.8	10.25	57.00	15.57	2.25 ( 1.05, 2.72)	<0.001	
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1									
Rivaroxaban	12,067	1,679.34	50.83	0.14	210	125.05	17.4	76.82	10.60		<0.001	
Apixaban	12,067	1,679.34	50.83	0.14	81	48.23	6.71	/0.82	10.69	2.59 ( 2.01, 3.35)	<0.001	
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05									
Rivaroxaban	12,067	3,968.32	120.12	0.33	331	83.41	27.43	<b>4E 27</b>	17 22	2 1 1 / 1 0 2 0 1	<0.001	
Apixaban	12,067	3,207.14	97.08	0.27	122	38.04	10.11	45.37	17.32	2.44 (1.98, 3.01)	<0.001	



 Table 28. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex

						Incidence		Incidence Rate			
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analys	is (Site-adjusted	only)									
Rivaroxaban	59,919	19,861.98	121.07	0.33	774	38.97	12.92	19.27	7.53	2.14 ( 1.84, 2.49)	<0.001
Apixaban	40,104	10,966.23	99.88	0.27	216	19.7	5.39	19.27	7.55	2.14 ( 1.04, 2.49)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	39,359	5,660.85	52.53	0.14	332	58.65	8.44	31.8	4.57	2.18 ( 1.80, 2.65)	<0.001
Apixaban	39,359	5,660.85	52.53	0.14	152	26.85	3.86	51.0	4.57	2.16 ( 1.60, 2.05)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	39,359	12,870.32	119.44	0.33	549	42.66	13.95	23.2	8.61		<0.001
Apixaban	39,359	10,795.76	100.18	0.27	210	19.45	5.34	23.2	8.01	2.35 ( 2.01, 2.76)	<0.001
Sex: Female											
Unmatched Analys	is (Site-adjusted	only)									
Rivaroxaban	51,897	17,930.26	126.19	0.35	931	51.92	17.94	24.24	10.24	200/102 220	<0.001
Apixaban	37,128	10,185.70	100.2	0.27	282	27.69	7.6	24.24	10.34	2.08 (1.82, 2.38)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	36,358	5,215.49	52.39	0.14	406	77.85	11.17	44.07	C 11	2 26 / 1 07 2 2 22	10 001
Apixaban	36,358	5,215.49	52.39	0.14	172	32.98	4.73	44.87	6.44	2.36 (1.97, 2.82)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	36,358	12,417.29	124.74	0.34	683	55	18.79	20.04	11.20		-0.001
Apixaban	36,358	10,013.53	100.6	0.28	270	26.96	7.43	28.04	11.36	2.25 (1.95, 2.59)	<0.001



 Table 29. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	sis (Site-adjuste	d only)									
Rivaroxaban	57,787	19,909.37	125.84	0.34	632	31.74	10.94	13.91	5.99	1.95 ( 1.65, 2.29)	<0.001
Apixaban	38,032	10,540.22	101.23	0.28	188	17.84	4.94	15.91	5.99	1.95 ( 1.05, 2.29)	<0.001
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	37,491	5,480.65	53.39	0.15	257	46.89	6.85	23.9	3.49	204/165 252)	<0.001
Apixaban	37,491	5,480.65	53.39	0.15	126	22.99	3.36	23.9	3.49	2.04 ( 1.65, 2.52)	<0.001
1:1 Matched Unco	nditional Analy	vsis; Caliper= 0	0.05								
Rivaroxaban	37,491	12,780.59	124.51	0.34	441	34.51	11.76	16.76	6.83	2 10 / 1 77 2 50	<0.001
Apixaban	37,491	10,423.04	101.54	0.28	185	17.75	4.93	10.70	0.83	2.10 ( 1.77, 2.50)	<0.001
Age Group: 75-84											
Unmatched Analys	sis (Site-adjuste	d only)									
Rivaroxaban	44,196	14,954.61	123.59	0.34	825	55.17	18.67	28.07	11.22	2.24 ( 1.94, 2.59)	<0.001
Apixaban	31,939	8,784.27	100.46	0.28	238	27.09	7.45	20.07	11.22	2.24 ( 1.94, 2.39)	<0.001
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	30,797	4,378.82	51.93	0.14	358	81.76	11.62	45.67	6.49	2.27 ( 1.88, 2.73)	<0.001
Apixaban	30,797	4,378.82	51.93	0.14	158	36.08	5.13	43.07	0.49	2.27 (1.00, 2.73)	<0.001
1:1 Matched Unco	nditional Analy	vsis; Caliper= 0	0.05								
Rivaroxaban	30,797	10,287.68	122.01	0.33	598	58.13	19.42	32.02	12.21	2.44 ( 2.09, 2.85)	<0.001
Apixaban	30,797	8,504.11	100.86	0.28	222	26.11	7.21	32.02	12.21	2.44 ( 2.09, 2.83)	<0.001
Age Group: 85+											
Unmatched Analys	sis (Site-adjuste	d only)									
Rivaroxaban	9,833	2,928.27	108.77	0.3	248	84.69	25.22	45.29	15.31	2.28 ( 1.75, 2.97)	<0.001
Apixaban	7,261	1,827.44	91.93	0.25	72	39.4	9.92	43.43	13.31	2.20 ( 1.73, 2.37)	<b>\0.001</b>
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	7,020	898.42	46.74	0.13	99	110.19	14.1	64.56	8.26	2.41 ( 1.68, 3.47)	<0.001
Apixaban	7,020	898.42	46.74	0.13	41	45.64	5.84	04.30	0.20	2.41 (1.00, 3.47)	<b>NO.001</b>



 Table 29. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Incidence Rate Difference	Difference in Risk per	Hazard Ratio	
Medical Product	Number of New Users	Years at Risk	Days at Risk	Years at Risk	Number of Events	Person- Years	1,000 New Users	per 1,000 Person- Years	1,000 New Users	(95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05								
Rivaroxaban	7,020	2,078.32	108.13	0.3	180	86.61	25.64	47.27	15.67	2.33 ( 1.76, 3.07)	<0.001
Apixaban	7,020	1,779.64	92.59	0.25	70	39.33	9.97	47.27	13.07	2.35 ( 1.70, 3.07)	7) <0.001



Table 30. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 0-1										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	3,845	1,253.20	119.05	0.33	13	10.37	3.38	* * * * *	****		0 1 1 2
Apixaban	2,079	586.61	103.06	0.28	****	****	****			3.35 ( 0.76, 14.84)	0.112
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	2,044	303.26	54.19	0.15	****	****	****	9.89	1.47	4 00 ( 0 45 25 70)	0.215
Apixaban	2,044	303.26	54.19	0.15	****	****	****	9.89	1.47	4.00 ( 0.45, 35.79)	0.215
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	2,044	650.49	116.24	0.32	****	****	****	8.84	2.94	3.81 ( 0.81, 17.95)	0.091
Apixaban	2,044	578.58	103.39	0.28	****	****	****	0.04	2.94	5.81 (0.81, 17.95)	0.091
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 2										
Unmatched Analysi	's (Site-adjusted	only)									
Rivaroxaban	18,983	6,664.10	128.22	0.35	127	19.06	6.69	****	****	2.33 ( 1.56, 3.47)	<0.001
Apixaban	11,656	3,412.18	106.92	0.29	* * * * *	****	* * * * *			2.55 ( 1.50, 5.47)	<0.001
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	11,587	1,764.71	55.63	0.15	****	****	****	14.17	2.16	2.14 ( 1.29, 3.54)	0.003
Apixaban	11,587	1,764.71	55.63	0.15	* * * * *	****	****	14.17	2.10	2.14 ( 1.29, 3.34)	0.005
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.0	05								
Rivaroxaban	11,587	4,053.59	127.78	0.35	****	****	****	10.41	4.14	2.34 ( 1.54, 3.57)	<0.001
Apixaban	11,587	3,397.62	107.1	0.29	****	****	****	10.41	4.14	2.54 ( 1.54, 5.57)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor											
Unmatched Analysi		only)									
Rivaroxaban	28,194	9,822.58	127.25	0.35	302	30.75	10.71	17	6.77	2.41 ( 1.87, 3.11)	<0.001
Apixaban	18,753	5,384.17	104.87	0.29	74	13.74	3.95	1,	0.77		-0.001
1:1 Matched Condit											
Rivaroxaban	18,534	2,789.63	54.98	0.15	111	39.79	5.99	23.66	3.56	2.47 ( 1.74, 3.49)	<0.001
Apixaban	18,534	2,789.63	54.98	0.15	45	16.13	2.43	20.00	5.50	, ( 1.7 -, 55)	-0.001



Table 30. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	18,534	6,379.88	125.73	0.34	198	31.04	10.68	47 54	6.0	2 44 ( 4 04 - 2 4 C)	-0.001
Apixaban	18,534	5,333.47	105.11	0.29	72	13.5	3.88	17.54	6.8	2.41 ( 1.84, 3.16)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 4										
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	27,248	9,387.62	125.84	0.34	435	46.34	15.96	23.48	9.71	2 2 2 / 1 2 2 2 7 4 \	<0.001
Apixaban	18,872	5,161.97	99.91	0.27	118	22.86	6.25	23.48	9.71	2.23 ( 1.82, 2.74)	<0.001
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	18,616	2,684.04	52.66	0.14	191	71.16	10.26	43.22	6.23	2 EE ( 1 OE 2 22)	<0.001
Apixaban	18,616	2,684.04	52.66	0.14	75	27.94	4.03	43.22	0.23	2.55 ( 1.95, 3.33)	<0.001
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.(	05								
Rivaroxaban	18,616	6,338.77	124.37	0.34	314	49.54	16.87	26.8	10.64	2.40 ( 1.94, 2.97)	<0.001
Apixaban	18,616	5,102.06	100.1	0.27	116	22.74	6.23	20.8	10.04	2.40 ( 1.94, 2.97)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 5										
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	17,765	5,772.68	118.69	0.32	410	71.02	23.08	34.85	13.49	2.15 ( 1.76, 2.63)	<0.001
Apixaban	13,134	3,482.85	96.86	0.27	126	36.18	9.59	54.05	13.45	2.13 ( 1.70, 2.03)	<0.001
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	12,727	1,739.85	49.93	0.14	189	108.63	14.85	62.07	8.49	2.33 ( 1.80, 3.03)	<0.001
Apixaban	12,727	1,739.85	49.93	0.14	81	46.56	6.36	02.07	0.45	2.33 ( 1.80, 3.83)	<0.001
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	05								
Rivaroxaban	12,727	4,083.95	117.2	0.32	302	73.95	23.73	37.69	14.06	2.23 ( 1.80, 2.75)	<0.001
Apixaban	12,727	3,392.42	97.36	0.27	123	36.26	9.66	57.05	14.00	2.23 ( 1.00, 2.75)	NO.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor											
Unmatched Analysis	s (Site-adjusted	only)									
Rivaroxaban	15,781	4,892.05	113.23	0.31	418	85.44	26.49	38.07	14.87	2.00 ( 1.66, 2.42)	<0.001
Apixaban	12,738	3,124.16	89.58	0.25	148	47.37	11.62	50.07	14.07	2.00 ( 1.00, 2.42)	\$0.001



Table 30. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	12,024	1,533.47	46.58	0.13	193	125.86	16.05		0.4	210/164 - 260	<0.001
Apixaban	12,024	1,533.47	46.58	0.13	92	59.99	7.65	65.86	8.4	2.10 (1.64, 2.69)	<0.001
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	05								
Rivaroxaban	12,024	3,714.25	112.83	0.31	328	88.31	27.28	42.20	1 - 00	2 1 2 / 1 7 4 2 5 0	<0.001
Apixaban	12,024	2,977.02	90.43	0.25	137	46.02	11.39	42.29	15.88	2.12 ( 1.74, 2.59)	<0.001

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



 Table 31. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	-1										
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	10,937	3,780.12	126.24	0.35	71	18.78	6.49	7.96	3.41	1 9E / 1 12 2 0E)	0.015
Apixaban	6,486	1,848.42	104.09	0.28	20	10.82	3.08	7.90	3.41	1.85 ( 1.13, 3.05)	0.015
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	6,472	974.13	54.98	0.15	30	30.8	4.64	15 4	2.22	2 00 / 1 00 2 72)	0.020
Apixaban	6,472	974.13	54.98	0.15	15	15.4	2.32	15.4	2.32	2.00 ( 1.08, 3.72)	0.028
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	6,472	2,221.82	125.39	0.34	42	18.9	6.49	0.05	2.4	1 00 / 1 11 2 22)	0.010
Apixaban	6,472	1,843.56	104.04	0.28	20	10.85	3.09	8.05	3.4	1.90 ( 1.11, 3.23)	0.019
HAS-BLED Score: 2											
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	51,220	18,227.38	129.98	0.36	554	30.39	10.82	16.87	6.91		<0.001
Apixaban	33,272	9,611.59	105.51	0.29	130	13.53	3.91	16.87	6.91	2.46 ( 2.03, 2.98)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	33,228	4,987.09	54.82	0.15	206	41.31	6.2	22.20	2.40	2 20 / 1 70 2 02)	-0.001
Apixaban	33,228	4,987.09	54.82	0.15	90	18.05	2.71	23.26	3.49	2.29 ( 1.79, 2.93)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	33,228	11,741.85	129.07	0.35	360	30.66	10.83	17 10	6.92	246/201 201	<0.001
Apixaban	33,228	9,602.88	105.56	0.29	130	13.54	3.91	17.12	6.92	2.46 (2.01, 3.01)	<0.001
HAS-BLED Score: 3											
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	35,069	11,549.72	120.29	0.33	640	55.41	18.25	27.69	10.83	2.17 ( 1.84, 2.56)	<0.001
Apixaban	25,062	6,708.68	97.77	0.27	186	27.73	7.42	27.09	10.02	2.17 ( 1.04, 2.30)	<b>\U.UU1</b>
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	24,588	3,454.66	51.32	0.14	270	78.16	10.98	43.71	6.14	2.27 ( 1.83, 2.81)	<0.001
Apixaban	24,588	3,454.66	51.32	0.14	119	34.45	4.84	45.71	0.14	2.27 ( 1.03, 2.81)	<0.001



Table 31. Effect Estimates for Risk of Major Extracranial Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	24,588	8,043.89	119.49	0.33	458	56.94	18.63	20.04	11 11	2 20 / 1 9E 2 61)	<0.001
Apixaban	24,588	6,594.90	97.97	0.27	184	27.9	7.48	29.04	11.14	2.20 (1.85, 2.61)	<0.001
HAS-BLED Score: 4+	ŀ										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	14,590	4,235.01	106.02	0.29	440	103.9	30.16	40 50	17 11		<0.001
Apixaban	12,412	2,983.24	87.79	0.24	162	54.3	13.05	49.59	17.11	2.09 (1.75, 2.51)	<0.001
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	11,496	1,409.49	44.78	0.12	212	150.41	18.44	02.01	10.10		-0.001
Apixaban	11,496	1,409.49	44.78	0.12	95	67.4	8.26	83.01	10.18	2.23 (1.75, 2.84)	<0.001
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	11,496	3,293.70	104.65	0.29	370	112.34	32.19	F0 22	10.21	2 20 / 1 00 2 70)	-0.001
Apixaban	11,496	2,787.01	88.55	0.24	148	53.1	12.87	59.23	19.31	2.30 (1.90, 2.79)	<0.001



 Table 32. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	sis (Site-adjuste	d only)									
Dabigatran	84,562	26,877.42	116.09	0.32	1,079	40.15	12.76	16.45	6.28	194/165 205)	<0.001
Apixaban	76,887	21,016.72	99.84	0.27	498	23.7	6.48	10.45	0.28	1.84 (1.65, 2.05)	<0.001
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	.1 )								
Dabigatran	69,054	9,442.44	49.94	0.14	539	57.08	7.81	20.00	4.1.1	2 11 / 1 02 2 45	-0.001
Apixaban	69,054	9,442.44	49.94	0.14	255	27.01	3.69	30.08	4.11	2.11 (1.82, 2.45)	<0.001
1:1 Matched Unco	nditional Analys	sis; Caliper= 0	.05								
Dabigatran	69,054	21,886.65	115.77	0.32	894	40.85	12.95	10.40	6 79	1.00 / 1.75 . 2.20)	-0.001
Apixaban	69,054	19,001.49	100.51	0.28	426	22.42	6.17	18.43	6.78	1.96 ( 1.75, 2.20)	<0.001



 Table 33. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

								Incidence			
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	Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	71,477	22,739.81	116.2	0.32	796	35	11.14	14.17	5.4	1.83 ( 1.62, 2.07)	<0.001
Apixaban	64,349	17,708.30	100.51	0.28	369	20.84	5.73	14.17	5.4	1.05 ( 1.02, 2.07)	<0.001
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Dabigatran	58,127	7,954.50	49.98	0.14	388	48.78	6.68	25.77	3.53		<0.001
Apixaban	58,127	7,954.50	49.98	0.14	183	23.01	3.15	25.77	3.53	2.12 (1.78, 2.53)	<0.001
1:1 Matched Unco	nditional Analys	sis; Caliper= 0.	05								
Dabigatran	58,127	18,436.38	115.85	0.32	645	34.99	11.1	15.00	5.59	1 00 / 1 66 2 19)	<0.001
Apixaban	58,127	16,084.70	101.07	0.28	320	19.89	5.51	15.09	5.59	1.90 ( 1.66, 2.18)	<0.001
Antiplatelets											
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	13,085	4,137.62	115.5	0.32	283	68.4	21.63	29.41	11.34	100/154 224)	<0.001
Apixaban	12,538	3,308.42	96.38	0.26	129	38.99	10.29	29.41	11.34	1.90 (1.54, 2.34)	<0.001
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Dabigatran	10,645	1,416.73	48.61	0.13	156	110.11	14.65	62.52	0.45	2 2 6 / 4 77 2 4 5	10.001
Apixaban	10,645	1,416.73	48.61	0.13	66	46.59	6.2	63.53	8.45	2.36 (1.77, 3.15)	<0.001
1:1 Matched Unco	nditional Analys	sis; Caliper= 0.0	05								
Dabigatran	10,645	3,350.41	114.96	0.31	242	72.23	22.73	27.05	12.24	2 4 0 ( 4 7 2 2 7 7	-0.004
Apixaban	10,645	2,842.50	97.53	0.27	100	35.18	9.39	37.05	13.34	2.19 (1.73, 2.77)	<0.001



 Table 34. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analy	sis (Site-adjust	ed only)									
Dabigatran	43,693	13,759.20	115.02	0.31	456	33.14	10.44	13.18	4.99	1.77 ( 1.51, 2.09)	<0.001
Apixaban	39,862	10,869.87	99.6	0.27	217	19.96	5.44	15.10	4.99	1.77 (1.51, 2.09)	<0.001
1:1 Matched Cond	litional Analys	is; Caliper= 0.0	05 <sup>1</sup>								
Dabigatran	35,590	4,924.68	50.54	0.14	241	48.94	6.77	25.59	3.54	2.10 ( 1.68, 2.62)	<0.001
Apixaban	35,590	4,924.68	50.54	0.14	115	23.35	3.23	25.59	5.54	2.10 ( 1.08, 2.02)	<0.001
1:1 Matched Unco	onditional Ana	lysis; Caliper=	0.05								
Dabigatran	35,590	11,231.79	115.27	0.32	379	33.74	10.65	15.43	5.62	1.96 ( 1.64, 2.34)	<0.001
Apixaban	35,590	9,775.76	100.33	0.27	179	18.31	5.03	15.45	5.02	1.90 (1.04, 2.34)	<0.001
Sex: Female											
Unmatched Analy	sis (Site-adjust	ed only)									
Dabigatran	40,869	13,118.22	117.24	0.32	623	47.49	15.24	19.8	7.65	1.89 ( 1.64, 2.18)	<0.001
Apixaban	37,025	10,146.86	100.1	0.27	281	27.69	7.59	19.0	7.05	1.09 ( 1.04, 2.10)	<0.001
1:1 Matched Cond	litional Analys	is; Caliper= 0.0	05 <sup>1</sup>								
Dabigatran	33,046	4,469.73	49.4	0.14	296	66.22	8.96	33.34	4.51	2.01 ( 1.65, 2.45)	<0.001
Apixaban	33,046	4,469.73	49.4	0.14	147	32.89	4.45	55.54	4.31	2.01 ( 1.03, 2.43)	<b>NU.UUI</b>
1:1 Matched Unco	onditional Ana	lysis; Caliper=	0.05								
Dabigatran	33,046	10,520.50	116.28	0.32	513	48.76	15.52	22.18	8.2	2.00 ( 1.72, 2.33)	<0.001
Apixaban	33,046	9,104.61	100.63	0.28	242	26.58	7.32	22.10	0.2	2.00 ( 1.72, 2.33)	<b>NO.001</b>



 Table 35. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	40,753	13,154.60	117.9	0.32	308	23.41	7.56	5.47	2.59	1 / 1 / 1 10 1 70)	<0.001
Apixaban	37,862	10,478.49	101.08	0.28	188	17.94	4.97	5.47	2.59	1.41 ( 1.18, 1.70)	<0.001
1:1 Matched Condi	itional Analysis;	: Caliper= 0.05	1								
Dabigatran	33,356	4,660.42	51.03	0.14	158	33.9	4.74	11.37	1 50	1 50 / 1 19 1 02)	0.001
Apixaban	33,356	4,660.42	51.03	0.14	105	22.53	3.15	11.37	1.59	1.50 ( 1.18, 1.93)	0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= 0.	05								
Dabigatran	33,356	10,747.87	117.69	0.32	250	23.26	7.49	6.75	2.88	1.52 ( 1.24, 1.86)	<0.001
Apixaban	33,356	9,328.57	102.15	0.28	154	16.51	4.62	0.75	2.88	1.52 (1.24, 1.80)	<0.001
Age Group: 75-84											
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	34,534	11,104.31	117.45	0.32	521	46.92	15.09	19.75	7.63	1.90 ( 1.63, 2.22)	<0.001
Apixaban	31,785	8,721.71	100.22	0.27	237	27.17	7.46	19.75	7.05	1.90 ( 1.03, 2.22)	<0.001
1:1 Matched Condi	itional Analysis;	: Caliper= 0.05	1								
Dabigatran	27,960	3,842.44	50.19	0.14	259	67.41	9.26	36.17	4.97	2.16 ( 1.74, 2.68)	<0.001
Apixaban	27,960	3,842.44	50.19	0.14	120	31.23	4.29	50.17	4.97	2.10 ( 1.74, 2.08)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= 0.	05								
Dabigatran	27,960	8,966.28	117.13	0.32	444	49.52	15.88	24.11	8.87	2.12 ( 1.79, 2.51)	<0.001
Apixaban	27,960	7,715.29	100.79	0.28	196	25.4	7.01	24.11	0.07	2.12 ( 1.79, 2.51)	<0.001
Age Group: 85+											
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	9,275	2,618.52	103.12	0.28	250	95.47	26.95	55.29	16.87	2.50 ( 1.92, 3.24)	<0.001
Apixaban	7,240	1,816.52	91.64	0.25	73	40.19	10.08	55.25	10.07	2.30 ( 1.32, 3.24)	<b>\U.UUI</b>
1:1 Matched Condi	itional Analysis;	: Caliper= 0.05	1								
Dabigatran	6,751	810.25	43.84	0.12	102	125.89	15.11	76.52	9.18	2.55 ( 1.77, 3.68)	<0.001
Apixaban	6,751	810.25	43.84	0.12	40	49.37	5.93	70.52	9.10	2.33 ( 1.77, 3.00)	<b>\0.001</b>



 Table 35. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analys	is; Caliper= (	0.05								
Dabigatran	6,751	1,880.79	101.76	0.28	183	97.3	27.11	F7 04	17 10		-0.001
Apixaban	6,751	1,698.15	91.87	0.25	67	39.45	9.92	57.84	17.18	18 2.55 ( 1.92, 3.38)	<0.001



Table 36. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 0-1										
Unmatched Analys	sis (Site-adjusted	d only)									
Dabigatran	2,775	860.22	113.22	0.31	****	****	****	8.18	2.63	3.65 ( 0.80, 16.69)	0.094
Apixaban	2,050	581.06	103.53	0.28	****	****	****	0.10	2.05	5.05 ( 0.80, 10.09)	0.094
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	15 <sup>1</sup>								
Dabigatran	1,959	269.58	50.26	0.14	****	****	****	14.84	2.04	5.00 ( 0.58, 42.80)	0.142
Apixaban	1,959	269.58	50.26	0.14	****	****	****	14.04	2.04	5.00 ( 0.58, 42.80)	0.142
1:1 Matched Unco	nditional Analys	sis; Caliper= (	0.05								
Dabigatran	1,959	611.11	113.94	0.31	****	****	****	8.03	2.55	5.84 ( 0.70, 48.54)	0.103
Apixaban	1,959	558.56	104.14	0.29	****	****	****	8.03	2.55	5.84 (0.70, 48.54)	0.103
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 2										
Unmatched Analys	sis (Site-adjusted	d only)									
Dabigatran	12,962	4,152.11	117	0.32	****	****	* * * * *	7.02	2.5	1.83 ( 1.18, 2.83)	0.007
Apixaban	11,594	3,380.86	106.51	0.29	****	****	* * * * *	7.02	2.5	1.05 ( 1.10, 2.05)	0.007
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	15 <sup>1</sup>								
Dabigatran	10,670	1,535.13	52.55	0.14	****	****	****	13.03	1.87	2.11 ( 1.20, 3.70)	0.009
Apixaban	10,670	1,535.13	52.55	0.14	****	****	* * * * *	15.05	1.87	2.11 ( 1.20, 5.70)	0.009
1:1 Matched Unco	nditional Analys	sis; Caliper= (	0.05								
Dabigatran	10,670	3,418.60	117.02	0.32	****	****	****	7.46	2.62	1.91 ( 1.19, 3.07)	0.007
Apixaban	10,670	3,120.74	106.83	0.29	****	****	****	7.40	2.02	1.91 ( 1.19, 5.07)	0.007
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 3										
Unmatched Analys	sis (Site-adjusted	d only)									
Dabigatran	19,816	6,490.63	119.64	0.33	184	28.35	9.29	14.53	5.32	2.21 ( 1.68, 2.89)	<0.001
Apixaban	18,659	5,353.49	104.79	0.29	74	13.82	3.97	14.33	5.52	2.21 ( 1.00, 2.09)	<b>\U.UUI</b>
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	15 <sup>1</sup>								
Dabigatran	16,641	2,371.64	52.05	0.14	90	37.95	5.41	22.77	3.24	2.50 ( 1.70, 3.68)	<0.001
Apixaban	16,641	2,371.64	52.05	0.14	36	15.18	2.16	22.11	5.24	2.30 ( 1.70, 3.08)	<b>\U.UUI</b>



Table 36. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncor	nditional Analys	sis; Caliper= (	0.05								
Dabigatran	16,641	5,439.00	119.38	0.33	154	28.31	9.25				
Apixaban	16,641	4,792.91	105.2	0.29	64	13.35	3.85	14.96	5.41	2.29 (1.71, 3.07)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco		,									
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	21,646	7,105.08	119.89	0.33	261	36.73	12.06				
Apixaban	18,800	5,123.62	99.54	0.27	120	23.42	6.38	13.31	5.67	1.69 (1.36, 2.10)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.0	95 <sup>1</sup>								
Dabigatran	17,117	2,367.47	50.52	0.14	122	51.53	7.13		2.4		
Apixaban	17,117	2,367.47	50.52	0.14	69	29.15	4.03	22.39	3.1	1.77 ( 1.32, 2.38)	<0.001
1:1 Matched Uncor	nditional Analys	sis; Caliper= (	0.05								
Dabigatran	17,117	5,626.09	120.05	0.33	215	38.21	12.56		c		
Apixaban	17,117	4,688.69	100.05	0.27	106	22.61	6.19	15.61	6.37	1.80 (1.42, 2.28)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 5										
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	13,991	4,324.43	112.89	0.31	247	57.12	17.65	24.25	0.2		-0.001
Apixaban	13,112	3,467.30	96.59	0.26	124	35.76	9.46	21.35	8.2	1.75 ( 1.41, 2.18)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.0	95 <sup>1</sup>								
Dabigatran	11,373	1,507.72	48.42	0.13	113	74.95	9.94	21 17	4.10	1 71 / 1 26 2 22)	-0.001
Apixaban	11,373	1,507.72	48.42	0.13	66	43.77	5.8	31.17	4.13	1.71 ( 1.26, 2.32)	<0.001
1:1 Matched Uncor	nditional Analys	sis; Caliper= (	0.05								
Dabigatran	11,373	3,491.79	112.14	0.31	207	59.28	18.2	25.07	0.00	1 97 / 1 47 2 26	<0.001
Apixaban	11,373	3,039.75	97.62	0.27	104	34.21	9.14	25.07	9.06	1.87 (1.47, 2.36)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 6+										
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	13,372	3,944.95	107.75	0.3	311	78.83	23.26	31.25	11.58	1.87 ( 1.53, 2.27)	<0.001
Apixaban	12,672	3,110.39	89.65	0.25	148	47.58	11.68	51.25	11.30	1.07 (1.33, 2.27)	<b>\U.UUI</b>



Table 36. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	10,805	1,339.38	45.28	0.12	157	117.22	14.53	58.98	7.31	2.01 ( 1.53, 2.64)	<0.001
Apixaban	10,805	1,339.38	45.28	0.12	78	58.24	7.22	50.90	7.51	2.01 (1.55, 2.04)	<0.001
1:1 Matched Unco	nditional Analys	sis; Caliper=	0.05								
Dabigatran	10,805	3,158.75	106.78	0.29	255	80.73	23.6	35.46	12.4	109/150 246)	<0.001
Apixaban	10,805	2,672.77	90.35	0.25	121	45.27	11.2	55.40	12.4	1.98 (1.59, 2.46)	NU.UU1

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



 Table 37. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	-1										
Unmatched Analysi	is (Site-adjusted	l only)									
Dabigatran	7,788	2,453.26	115.06	0.32	45	18.34	5.78	7.48	2.68	1.81 ( 1.07, 3.07)	0.027
Apixaban	6,455	1,841.15	104.18	0.29	20	10.86	3.1	7.40	2.08	1.01 ( 1.07, 5.07)	0.027
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	6,098	859.78	51.5	0.14	17	19.77	2.79	****	* * * * *	2.12 ( 0.92, 4.92)	0.079
Apixaban	6,098	859.78	51.5	0.14	****	****	* * * * *			2.12 (0.92, 4.92)	0.079
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Dabigatran	6,098	1,924.61	115.28	0.32	35	18.19	5.74	7.86	2.79	1.91 ( 1.08, 3.37)	0.026
Apixaban	6,098	1,742.89	104.39	0.29	18	10.33	2.95	7.80	2.79	1.91 ( 1.08, 5.57)	0.020
HAS-BLED Score: 2											
Unmatched Analysi	is (Site-adjusted	l only)									
Dabigatran	38,021	12,735.60	122.34	0.33	331	25.99	8.71	12.25	4.75	2.04 ( 1.67, 2.51)	<0.001
Apixaban	33,078	9,534.18	105.28	0.29	131	13.74	3.96	12.25	4.75	2.04 ( 1.07, 2.31)	<b>\0.001</b>
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	30,531	4,396.15	52.59	0.14	157	35.71	5.14	****	****	2.12 ( 1.61, 2.80)	<0.001
Apixaban	30,531	4,396.15	52.59	0.14	****	****	****			2.12 ( 1.01, 2.00)	<b>\0.001</b>
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Dabigatran	30,531	10,198.85	122.01	0.33	259	25.4	8.48	11.89	4.59	2.03 ( 1.63, 2.52)	<0.001
Apixaban	30,531	8,811.10	105.41	0.29	119	13.51	3.9	11.05	4.55	2.03 ( 1.03, 2.32)	<0.001
HAS-BLED Score: 3											
Unmatched Analysi											
Dabigatran	26,875	8,280.22	112.53	0.31	408	49.27	15.18	21.56	7.78	1.91 ( 1.60, 2.27)	<0.001
Apixaban	24,997	6,675.35	97.54	0.27	185	27.71	7.4	21.00			.0.001
1:1 Matched Condi											
Dabigatran	22,081	2,971.20	49.15	0.13	198	66.64	8.97	36.35	4.89	2.20 ( 1.71, 2.82)	<0.001
Apixaban	22,081	2,971.20	49.15	0.13	90	30.29	4.08	50.00		[,	-0.001



Table 37. Effect Estimates for Risk of Major Extracranial Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

								Incidence			
		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
	Number of	Years	Days	Years	Number of	Person-	1,000	Person-	1,000	(95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.	05								
Dabigatran	22,081	6,800.57	112.49	0.31	333	48.97	15.08	22.13	7.88	1.93 ( 1.60, 2.34)	<0.001
Apixaban	22,081	5,923.91	97.99	0.27	159	26.84	7.2	22.15	7.00	1.95 (1.00, 2.54)	<0.001
HAS-BLED Score: 4-	+										
Unmatched Analysi	is (Site-adjusted	only)									
Dabigatran	11,878	3,408.34	104.81	0.29	295	86.55	24.84	31.93	11.73	177/1/6 215)	<0.001
Apixaban	12,357	2,966.03	87.67	0.24	162	54.62	13.11	51.95	11.75	1.77 ( 1.46, 2.15)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	9,997	1,222.69	44.67	0.12	186	152.12	18.61	86.69	10.6	2 22 / 1 70 2 02)	<0.001
Apixaban	9,997	1,222.69	44.67	0.12	80	65.43	8	80.09	10.6	2.32 (1.79, 3.02)	<0.001
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.	05								
Dabigatran	9,997	2,859.68	104.48	0.29	261	91.27	26.11	20.10	12.4	102/156 220)	-0.001
Apixaban	9,997	2,438.17	89.08	0.24	127	52.09	12.7	39.18	13.4	1.93 (1.56, 2.39)	<0.001

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



 Table 38. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	sis (Site-adjuste	d only)									
Rivaroxaban	110,113	37,287.25	123.68	0.34	1,510	40.5	13.71	3.19	1.85	1.10 ( 1.01, 1.19)	0.023
Dabigatran	84,473	26,858.70	116.13	0.32	1,002	37.31	11.86	5.19	1.65	1.10 ( 1.01, 1.19)	0.025
1:1 Matched Condi	itional Analysis	; Caliper= 0.0	<b>5</b> <sup>1</sup>								
Rivaroxaban	82,326	12,020.37	53.33	0.15	689	57.32	8.37	5.41	0.79	1.10 ( 0.99, 1.23)	0.073
Dabigatran	82,326	12,020.37	53.33	0.15	624	51.91	7.58	5.41	0.79	1.10 ( 0.99, 1.25)	0.075
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Rivaroxaban	82,326	27,774.62	123.23	0.34	1,178	42.41	14.31	6.02	2.71	1 17 / 1 09 1 29)	<0.001
Dabigatran	82,326	26,242.22	116.43	0.32	955	36.39	11.6	0.02	2.71	l 1.17 (1.08, 1.28)	<0.001



 Table 39. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

			Average	Average		Incidence Rate per		Incidence Rate Difference	Difference in	Herend Betie	
	Number of New Users	Person Years at Risk	Person Days	Person Years	Number of	1,000 Person-	Risk per 1,000 New Users	per 1,000 Person- Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence	Wald
Medical Product	New Users		at Risk	at Risk	Events	Years	New Users	rears	New Users	Interval)	P-Value
No Antiplatelets	is (Cita adjusta	d an lui									
Unmatched Analys Rivaroxaban	, ,		123.94	0.34	1 1 7 7	35.62	12.09				
	94,068	31,920.44	123.94 116.23	0.34	1,137 741	35.62 32.61	12.09	3.01	1.71	1.10 ( 1.00, 1.21)	0.047
Dabigatran	71,402	22,722.51		0.32	741	32.01	10.38				
1:1 Matched Condi Rivaroxaban			53.55	0.15	523	51.14	7 5				
	69,758 60,758	10,226.98 10,226.98	53.55 53.55	0.15	523 472	46.15	7.5 6.77	4.99	0.73	1.11 ( 0.98, 1.25)	0.106
Dabigatran	69,758			0.15	472	40.15	0.77				
1:1 Matched Uncon	,	, ,		0.24	000	27 42	12.00				
Rivaroxaban	69,758	23,594.14	123.54	0.34	883	37.42	12.66	5.42	2.45	1.17 ( 1.06, 1.29)	0.002
Dabigatran	69,758	22,245.22	116.48	0.32	712	32.01	10.21	_			_
Antiplatelets	. (61)	1 1 1									
Unmatched Analys						co =					
Rivaroxaban	16,045	5,366.81	122.17	0.33	373	69.5	23.25	6.4	3.28	1.13 ( 0.96, 1.32)	0.137
Dabigatran	13,071	4,136.20	115.58	0.32	261	63.1	19.97				
1:1 Matched Condi											
Rivaroxaban	12,416	1,791.59	52.7	0.14	174	97.12	14.01	12.84	1.85	1.15 ( 0.93, 1.43)	0.202
Dabigatran	12,416	1,791.59	52.7	0.14	151	84.28	12.16	12.0 .	1.00		0.202
1:1 Matched Unco	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	12,416	4,137.37	121.71	0.33	293	70.82	23.6	10.11	4.27	1.19 ( 1.00, 1.41)	0.045
Dabigatran	12,416	3,953.22	116.29	0.32	240	60.71	19.33	10.11	4.27	1.1.5 ( 1.00, 1.41)	0.040



 Table 40. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex

						Incidence		Incidence Rate			
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	58,957	19,586.52	121.34	0.33	685	34.97	11.62	3.7	1.77	1.13 ( 1.01, 1.28)	0.041
Dabigatran	43,649	13,750.04	115.06	0.32	430	31.27	9.85	5.7	1.77	1.13 ( 1.01, 1.28)	0.041
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05 <sup>1</sup>									
Rivaroxaban	42,684	6,223.10	53.25	0.15	287	46.12	6.72	4.34	0.63	1.10 ( 0.93, 1.31)	0.249
Dabigatran	42,684	6,223.10	53.25	0.15	260	41.78	6.09	4.34	0.03	1.10(0.93, 1.31)	0.249
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	5								
Rivaroxaban	42,684	14,091.00	120.58	0.33	510	36.19	11.95	5.20	2.2	4 4 9 / 4 9 4 4 25	0.012
Dabigatran	42,684	13,457.06	115.15	0.32	416	30.91	9.75	5.28	2.2	1.18 ( 1.04, 1.35)	0.012
Sex: Female											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	51,156	17,700.73	126.38	0.35	825	46.61	16.13	2.07	2.42	4 00 ( 0 07 4 20)	0 4 7 4
Dabigatran	40,824	13,108.67	117.28	0.32	572	43.64	14.01	2.97	2.12	1.08 (0.97, 1.20)	0.171
1:1 Matched Condit	ional Analysis; (	Caliper= 0.05 <sup>1</sup>									
Rivaroxaban	39,269	5,728.64	53.28	0.15	388	67.73	9.88		4.6	4 4 9 ( 4 9 9 4 9 9)	0.040
Dabigatran	39,269	5,728.64	53.28	0.15	325	56.73	8.28	11	1.6	1.19 ( 1.03, 1.38)	0.018
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	5								
Rivaroxaban	39,269	13,558.25	126.11	0.35	664	48.97	16.91	7.24	2.46	4 4 0 ( 4 0 5 - 4 2 2 )	0.004
Dabigatran	39,269	12,651.02	117.67	0.32	528	41.74	13.45	7.24	3.46	1.18 ( 1.05, 1.32)	0.004



 Table 41. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Age Group: 65-74           Unmatched Analysis (Site-adjusted only)           Rivaroxaban         56,862         19,632.17         126.11         0.35         563         28.68         9.9         7.45         3.05         1.38 (1.19, 1.59)           Dabigatran         40,695         13,143.72         117.97         0.32         279         21.23         6.86         7.45         3.05         1.38 (1.19, 1.59)           1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> 6.34         12.96         1.93         1.44 (1.19, 1.74)           Dabigatran         39.926         5.941.38         54.35         0.15         176         29.62         4.41         12.96         1.93         1.44 (1.19, 1.74)           1:1 Matched Unconditional Analysis; Caliper= 0.05             8.34         10.32         266         20.6         6.66         9.34         3.66         1.48 (1.27, 1.73)           Dabigatran         39.926         12,914.53         118.14         0.32         291         44.24         14.23         4.83         2.4         1.11 (0.99, 1.24)           Dabigatran         34,527         14,753.69         12.38         0.34<	Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Rivaroxaban       56,862       19,632.17       126.11       0.35       563       28.68       9.9       7.45       3.05       1.38 (1.19, 1.59)         Dabigatran       40,695       13,143.72       117.97       0.32       279       21.23       6.86       7.45       3.05       1.38 (1.19, 1.59)         1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> 1.93       1.44 (1.19, 1.74)         1:1 Matched Unconditional Analysis; Caliper= 0.05 <sup>1</sup> 7.66       6.34       12.96       1.93       1.44 (1.19, 1.74)         1:1 Matched Unconditional Analysis; Caliper= 0.05          1.38 (1.19, 1.59)       1.44 (1.19, 1.74)         1:1 Matched Unconditional Analysis; Caliper= 0.05         8.435       0.15       176       29.93       10.32       9.34       3.66       1.48 (1.27, 1.73)         Dabigatran       39.926       12,914.53       118.14       0.32       266       20.6       6.66       9.34       3.66       1.48 (1.27, 1.73)         Dabigatran       34,508       11,097.34       117.46       0.32       491       44.24       14.23       4.83       2.4       1.11 (0.99, 1.24)       1.1         1:1 M	Age Group: 65-74											
Dabigatran         40,695         13,143.72         117.97         0.32         279         21.23         6.86         7.45         3.05         1.38 (1.19, 1.59)           1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> 1         1.30         1.34 (1.19, 1.59)         1.31 (1.19, 1.59)           1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> 1.30         5.941.38         54.35         0.15         1.76         29.62         4.41         12.96         1.93         1.44 (1.19, 1.74)           1:1 Matched Unconditional Analysis; Caliper= 0.05         1.3763.29         125.91         0.34         412         29.93         10.32         9.34         3.66         1.48 (1.27, 1.73)           Age Group: 75-84         Unmatched Analysis (Site-adjusted only)         1.11 (0.97.34         117.46         0.32         491         44.24         14.23         4.83         2.4         1.11 (0.99, 1.24)           1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> 1.34 (1.07, 1.35         344         7.24         49.07         16.63         4.83         2.4         1.11 (0.99, 1.24)           1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> 1.34 (1.01, 1.29)         1.44 (1.01, 1.29)         1.47 (1.00, 1.36)           1:1 Matched Unconditional Analysis; Caliper= 0.05 <sup>1</sup> 1.14 (1.01, 1.29)	Unmatched Analys	sis (Site-adjuste	ed only)									
Dabigatran       40,695       13,143,72       117,97       0.32       279       21.23       6.86         1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> Rivaroxaban       39,926       5,941.38       54.35       0.15       253       42.58       6.34       12.96       1.93       1.44 (1.19, 1.74)         1:1 Matched Unconditional Analysis; Caliper= 0.05 <sup>1</sup> 1.76       29.62       4.41       12.96       1.93       1.44 (1.19, 1.74)         1:1 Matched Unconditional Analysis; Caliper= 0.05       1.3763.29       125.91       0.34       412       29.93       10.32       9.34       3.66       1.48 (1.27, 1.73)         Dabigatran       39.926       12,914.53       118.14       0.32       266       20.6       6.66       9.34       3.66       1.48 (1.27, 1.73)         Age Group: 75-84       Unmatched Analysis (Site-adjusted only)       Ita (3.527       14,753.69       123.8       0.34       724       49.07       16.63       4.83       2.4       1.11 (0.99, 1.24)         Babigatran       34,508       11,097.34       117.46       0.32       491       44.24       14.23       4.83       2.4       1.11 (0.9, 1.26)         I:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> Ita (1.01, 1.29)       5	Rivaroxaban	56,862	19,632.17	126.11	0.35	563	28.68	9.9	7 45	2.05	1 29 / 1 10 1 50)	<0.001
Rivaroxaban39,9265,941.3854.350.1525342.586.3412.961.931.44 (1.19, 1.74)Dabigatran39,9265,941.3854.350.1517629.624.4112.961.931.44 (1.19, 1.74)1:1 Matched Unconditional Analysis; Calipere 0.UF81.140.3226620.66.669.343.661.48 (1.27, 1.73)Biyaroxaban39,92612,763.29125.910.3441229.9310.329.343.661.48 (1.27, 1.73)Age Group; 75-84UUU1.11 (0.99, 12.4)1.17.60.3249144.2414.234.832.41.11 (0.99, 1.24)Immatched Analysis (Ste-adjusted onlyRivaroxaban43,52714,753.69123.80.3472449.0716.634.832.41.11 (0.99, 1.24)1:1 Matched Conditional Analysis; Calipere 0.05*II3.441.100.329.561.038.831.0021.471.17 (1.00, 1.36)1:1 Matched Unconditional Analysis; Calipere 0.05IIIIIIIIII (1.09, 1.24)III (1.09, 1.24)Rivaroxaban33,4034,890.1253.470.1534470.3510.310.021.471.17 (1.00, 1.36)I:1 Matched Unconditional Analysis; Calipere 0.UFIIIIIII (1.09, 1.24)1.14 (1.01, 1.29)1.241.242.841.14 (1.01, 1.29)Rivaroxaban33,40311,304.4012.610.3456650.07 </td <td>Dabigatran</td> <td>40,695</td> <td>13,143.72</td> <td>117.97</td> <td>0.32</td> <td>279</td> <td>21.23</td> <td>6.86</td> <td>7.45</td> <td>5.05</td> <td>1.56 ( 1.19, 1.59)</td> <td>&lt;0.001</td>	Dabigatran	40,695	13,143.72	117.97	0.32	279	21.23	6.86	7.45	5.05	1.56 ( 1.19, 1.59)	<0.001
Dabigatran         39,926         5,941.38         54.35         0.15         176         29.62         4.41         12.96         1.93         1.44 (1.19, 1.74)           1:1 Matched Unconditional Analysis; Caliper= 0.05	1:1 Matched Cond	itional Analysis	s; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran       39,926       5,941,38       54.35       0.15       176       29.62       4.41         1:1 Matched Unconditional Analysis; Caliper= 0.05	Rivaroxaban	39,926	5,941.38	54.35	0.15	253	42.58	6.34	12.06	1.02	1 4 4 / 1 10 1 7 4	<0.001
Rivaroxaban39,92613,763.29125.910.3441229.9310.329.343.661.48 (1.27, 1.73)Dabigatran39,92612,914.53118.140.3226620.66.669.343.661.48 (1.27, 1.73)Age Group: 75-84Unmatched Analysis (Site-adjusted only)Rivaroxaban43,52714,753.69123.80.3472449.0716.634.832.41.11 (0.99, 1.24)Dabigatran34,50811,097.34117.460.3249144.2414.234.832.41.11 (0.99, 1.24)1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup> Rivaroxaban33,4034,890.1253.470.1534470.3510.310.021.471.17 (1.00, 1.36)1:1 Matched Unconditional Analysis; Caliper= 0.05 <sup>1</sup> Rivaroxaban33,4031,304.40123.610.3456650.0716.946.312.841.14 (1.01, 1.29)Age Group: 85+Unmatched Analysis (Site-adjusted only)Rivaroxaban33,40311,304.40123.610.3456650.0716.946.312.841.14 (1.01, 1.29)Age Group: 85+Unmatched Analysis (Site-adjusted only)Rivaroxaban9,7242,901.39108.980.322376.8622.93-11.77-2.090.88 (0.73, 1.06)Dabigatran9,2702,617.65103.140.2823288.6325.03-11.77-2.090.88 (0.73, 1.06) <td>Dabigatran</td> <td>39,926</td> <td>5,941.38</td> <td>54.35</td> <td>0.15</td> <td>176</td> <td>29.62</td> <td>4.41</td> <td>12.90</td> <td>1.93</td> <td>1.44 ( 1.19, 1.74)</td> <td>&lt;0.001</td>	Dabigatran	39,926	5,941.38	54.35	0.15	176	29.62	4.41	12.90	1.93	1.44 ( 1.19, 1.74)	<0.001
Dabigatran         39,926         12,914.53         118.14         0.32         266         20.6         6.66         9.34         3.66         1.48 (1.27, 1.73)           Age Group: 75-84         Umatched Analysis (Site-adjusted only)         Rivaroxaban         43,527         14,753.69         123.8         0.34         724         49.07         16.63         4.83         2.4         1.11 (0.99, 1.24)           Dabigatran         34,508         11,097.34         117.46         0.32         491         44.24         14.23         4.83         2.4         1.11 (0.99, 1.24)           1:1 Matched Conditional Analysis; Caliper = 0.05 <sup>1</sup>	1:1 Matched Unco	nditional Analy	/sis; Caliper= (	0.05								
Dabigatran       39,926       12,914.53       118.14       0.32       266       20.6       6.66         Age Group: 75-84         Unmatched Analysis (Site-adjusted only)         Rivaroxaban       43,527       14,753.69       123.8       0.34       724       49.07       16.63       4.83       2.4       1.11 ( 0.99, 1.24)         Dabigatran       34,508       11,097.34       117.46       0.32       491       44.24       14.23       4.83       2.4       1.11 ( 0.99, 1.24)         1:1 Matched Conditional Analysis; Caliper = 0.05 <sup>1</sup> Rivaroxaban       33,403       4,890.12       53.47       0.15       344       70.35       10.3       10.02       1.47       1.17 ( 1.00, 1.36)         Dabigatran       33,403       4,890.12       53.47       0.15       295       60.33       8.83       10.02       1.47       1.17 ( 1.00, 1.36)         1:1 Matched Unconditional Analysis; Caliper = 0.05       Rivaroxaban       33,403       10,763.47       117.69       0.32       471       43.76       14.1       6.31       2.84       1.14 ( 1.01, 1.29)         Age Group: 85+       Unmatched Analysis (Site-adjusted only)       Rivaroxaban       9,724       2,901.39       108.98       0.3       223       76.86 </td <td>Rivaroxaban</td> <td>39,926</td> <td>13,763.29</td> <td>125.91</td> <td>0.34</td> <td>412</td> <td>29.93</td> <td>10.32</td> <td>0.24</td> <td>2.00</td> <td>1 40 / 1 27 1 72)</td> <td>&lt;0.001</td>	Rivaroxaban	39,926	13,763.29	125.91	0.34	412	29.93	10.32	0.24	2.00	1 40 / 1 27 1 72)	<0.001
Unmatched Analysis (Site-adjusted only)         Rivaroxaban       43,527       14,753.69       123.8       0.34       724       49.07       16.63       4.83       2.4       1.11 (0.99, 1.24)         Dabigatran       34,508       11,097.34       117.46       0.32       491       44.24       14.23       4.83       2.4       1.11 (0.99, 1.24)         1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>1</sup>	Dabigatran	39,926	12,914.53	118.14	0.32	266	20.6	6.66	9.34	3.00	1.48 ( 1.27, 1.73)	<0.001
Rivaroxaban43,52714,753.69123.80.3472449.0716.634.832.41.11 (0.99, 1.24)Dabigatran34,50811,097.34117.460.3249144.2414.234.832.41.11 (0.99, 1.24)1:1 Matched Conditional Analysis; Caliper = 0.05 <sup>-1</sup> Rivaroxaban33,4034,890.1253.470.1534470.3510.310.021.471.17 (1.00, 1.36)Dabigatran33,4034,890.1253.470.1529560.338.8310.021.471.17 (1.00, 1.36)1:1 Matched Unconditional Analysis; Caliper = 0.05Rivaroxaban33,40311,304.40123.610.3456650.0716.946.312.841.14 (1.01, 1.29)Dabigatran33,40310,763.47117.690.3247143.7614.16.312.841.14 (1.01, 1.29)Age Group: 85+Unmatched Analysis (Site-adjusted only)Rivaroxaban9,7242,901.39108.980.322376.8622.93-11.77-2.090.88 (0.73, 1.06)Dabigatran9,2702,617.65103.140.2823286.6325.03-11.77-2.090.88 (0.73, 1.06)	Age Group: 75-84											
Dabigatran34,50811,097.34117.460.3249144.2414.234.832.41.11 (0.99, 1.24)1:1 Matched Conditional Analysis; Caliper= 0.05 <sup>-1</sup>	Unmatched Analys	sis (Site-adjuste	ed only)									
Dabigatran       34,508       11,097.34       117.46       0.32       491       44.24       14.23       14.23         1:1 Matched Conditional Analysis; Caliper = 0.05 <sup>-1</sup> 1       1       Matched Conditional Analysis; Caliper = 0.05 <sup>-1</sup> 1       1       Matched Conditional Analysis; Caliper = 0.05 <sup>-1</sup> Rivaroxaban       33,403       4,890.12       53.47       0.15       295       60.33       8.83       10.02       1.47       1.17 (1.00, 1.36)         1:1 Matched Unconditional Analysis; Caliper = 0.05       1       53.47       0.15       295       60.33       8.83       10.02       1.47       1.17 (1.00, 1.36)         1:1 Matched Unconditional Analysis; Caliper = 0.05       5       5       5       5       16.94       6.31       2.84       1.14 (1.01, 1.29)         Dabigatran       33,403       10,763.47       117.69       0.32       471       43.76       14.1       6.31       2.84       1.14 (1.01, 1.29)         Age Group: 85+       Unmatched Analysis (Site-adjusted only)       No.32       76.86       22.93       -11.77       -2.09       0.88 (0.73, 1.06)         No babigatran       9,270       2,617.65       103.14       0.28       232       88.63       25.03       -11.77       -2.09	Rivaroxaban	43,527	14,753.69	123.8	0.34	724	49.07	16.63	1 00	2.4	1 11 / 0 00 1 24)	0.08
Rivaroxaban33,4034,890.1253.470.1534470.3510.310.021.471.17 ( 1.00, 1.36)Dabigatran33,4034,890.1253.470.1529560.338.8310.021.471.17 ( 1.00, 1.36)1:1 Matched Unconditional Analysis; Caliper = 0.05Rivaroxaban33,40311,304.40123.610.3456650.0716.946.312.841.14 ( 1.01, 1.29)Dabigatran33,40310,763.47117.690.3247143.7614.16.312.841.14 ( 1.01, 1.29)Matched Analysis (Site-adjusted only)Rivaroxaban9,7242,901.39108.980.322376.8622.93-11.77-2.090.88 ( 0.73, 1.06)Dabigatran9,2702,617.65103.140.2823288.6325.03-11.77-2.090.88 ( 0.73, 1.06)	Dabigatran	34,508	11,097.34	117.46	0.32	491	44.24	14.23	4.05	2.4	1.11 (0.99, 1.24)	0.08
Dabigatran       33,403       4,890.12       53.47       0.15       295       60.33       8.83       10.02       1.47       1.17 (1.00, 1.36)         1:1 Matched Unconditional Analysis; Caliper= 0.05	1:1 Matched Cond	itional Analysis	s; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran       33,403       4,890.12       53.47       0.15       295       60.33       8.83         1:1 Matched Unconditional Analysis; Caliper= 0.05         Rivaroxaban       33,403       11,304.40       123.61       0.34       566       50.07       16.94       6.31       2.84       1.14 (1.01, 1.29)         Dabigatran       33,403       10,763.47       117.69       0.32       471       43.76       14.1       6.31       2.84       1.14 (1.01, 1.29)         Age Group: 85+         Unmatched Analysis (Site-adjusted only)         Rivaroxaban       9,724       2,901.39       108.98       0.3       223       76.86       22.93       -11.77       -2.09       0.88 (0.73, 1.06)         Dabigatran       9,270       2,617.65       103.14       0.28       232       88.63       25.03       -11.77       -2.09       0.88 (0.73, 1.06)	Rivaroxaban	33,403	4,890.12	53.47	0.15	344	70.35	10.3	10.02	1 47	1 17/1 00 1 20	0.053
Rivaroxaban       33,403       11,304.40       123.61       0.34       566       50.07       16.94       6.31       2.84       1.14 ( 1.01, 1.29)         Dabigatran       33,403       10,763.47       117.69       0.32       471       43.76       14.1       6.31       2.84       1.14 ( 1.01, 1.29)         Age Group: 85+       Unmatched Analysis (Site-adjusted only)       No.32       223       76.86       22.93       -11.77       -2.09       0.88 ( 0.73, 1.06)         Dabigatran       9,270       2,617.65       103.14       0.28       232       88.63       25.03       -11.77       -2.09       0.88 ( 0.73, 1.06)	Dabigatran	33,403	4,890.12	53.47	0.15	295	60.33	8.83	10.02	1.47	1.17 (1.00, 1.30)	0.053
Dabigatran33,40310,763.47117.690.3247143.7614.16.312.841.14 (1.01, 1.29)Age Group: 85+Unmatched Analysis (Site-adjusted only)Rivaroxaban9,7242,901.39108.980.322376.8622.93-11.77-2.090.88 (0.73, 1.06)Dabigatran9,2702,617.65103.140.2823288.6325.03-11.77-2.090.88 (0.73, 1.06)	1:1 Matched Unco	nditional Analy	/sis; Caliper= (	0.05								
Dabigatran       33,403       10,763.47       117.69       0.32       471       43.76       14.1         Age Group: 85+       Unmatched Analysis (Site-adjusted only)         Rivaroxaban       9,724       2,901.39       108.98       0.3       223       76.86       22.93       -11.77       -2.09       0.88 ( 0.73, 1.06)         Dabigatran       9,270       2,617.65       103.14       0.28       232       88.63       25.03       -11.77       -2.09       0.88 ( 0.73, 1.06)	Rivaroxaban	33,403	11,304.40	123.61	0.34	566	50.07	16.94	C 21	2.04	1 1 4 / 1 01 1 20)	0.037
Unmatched Analysis (Site-adjusted only)         Rivaroxaban       9,724       2,901.39       108.98       0.3       223       76.86       22.93         Dabigatran       9,270       2,617.65       103.14       0.28       232       88.63       25.03       -11.77       -2.09       0.88 ( 0.73, 1.06)	Dabigatran	33,403	10,763.47	117.69	0.32	471	43.76	14.1	0.31	2.84	1.14 ( 1.01, 1.29)	0.037
Rivaroxaban9,7242,901.39108.980.322376.8622.93Dabigatran9,2702,617.65103.140.2823288.6325.03-11.77-2.090.88 ( 0.73, 1.06 )	Age Group: 85+											
Dabigatran 9,270 2,617.65 103.14 0.28 232 88.63 25.03 -11.77 -2.09 0.88 ( 0.73, 1.06)	Unmatched Analys	sis (Site-adjuste	ed only)									
Dabigatran 9,270 2,617.65 103.14 0.28 232 88.63 25.03	Rivaroxaban	9,724	2,901.39	108.98	0.3	223	76.86	22.93	11 77	2.00	0 99 / 0 72 1 06	0.171
1.1 Matched Conditional Analysis: Caliper= $0.05^{1}$	Dabigatran	9,270	2,617.65	103.14	0.28	232	88.63	25.03	-11.//	-2.09	0.00 (0.75, 1.00)	0.171
	1:1 Matched Cond	itional Analysis	s; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban 8,388 1,075.86 46.85 0.13 101 93.88 12.04 -19.52 -2.5 0.83 ( 0.64, 1.08)	Rivaroxaban	8,388	1,075.86	46.85	0.13	101	93.88	12.04	10 52	2 5	0.92/0.64 1.09	0.16
Dabigatran 8,388 1,075.86 46.85 0.13 122 113.4 14.54	Dabigatran	8,388	1,075.86	46.85	0.13	122	113.4	14.54	-19.52	-2.5	0.03 ( 0.04, 1.08)	0.10



 Table 41. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analy	sis; Caliper=	0.05								
Rivaroxaban	8,388	2,516.20	109.57	0.3	193	76.7	23.01	0.25	1 40	0.00/0.74 1.10)	0.216
Dabigatran	8,388	2,382.12	103.73	0.28	205	86.06	24.44	-9.35	-1.43	0.90 (0.74, 1.10)	0.316



Table 42. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 0-1										
Unmatched Analys	is (Site-adjustea	l only)									
Rivaroxaban	3,766	1,229.68	119.26	0.33	****	****	****	-2.34	-0.6	0.76(0.31, 1.88)	0.559
Dabigatran	2,768	859.06	113.36	0.31	****	****	****	-2.34	-0.6	0.76 (0.31, 1.88)	0.559
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	2,726	395.41	52.98	0.15	****	****	****	2.53	0.37	1.17 ( 0.39, 3.47)	0.782
Dabigatran	2,726	395.41	52.98	0.15	****	****	****	2.53	0.37	1.17 (0.39, 3.47)	0.782
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	2,726	888.59	119.06	0.33	****	****	****	-0.47	0	0.94 ( 0.37, 2.37)	0.895
Dabigatran	2,726	849.07	113.76	0.31	****	****	****	-0.47	0	0.94 ( 0.57, 2.57)	0.895
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 2										
Unmatched Analys	is (Site-adjustea	l only)									
Rivaroxaban	18,605	6,550.83	128.6	0.35	* * * * *	****	* * * * *	1.97	1.18	1.17 ( 0.86, 1.59)	0.321
Dabigatran	12,943	4,148.21	117.06	0.32	****	****	****	1.97	1.10	1.17 (0.80, 1.39)	0.521
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,668	1,959.70	56.5	0.15	****	****	****	3.06	0.47	1.17 ( 0.75, 1.82)	0.497
Dabigatran	12,668	1,959.70	56.5	0.15	****	****	****	3.00	0.47	1.17 (0.75, 1.82)	0.497
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	12,668	4,454.51	128.43	0.35	****	****	****	0.93	0.79	1.10 ( 0.78, 1.55)	0.587
Dabigatran	12,668	4,065.50	117.22	0.32	****	****	****	0.95	0.79	1.10 ( 0.78, 1.55)	0.587
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 3										
Unmatched Analys	is (Site-adjustea	l only)									
Rivaroxaban	27,766	9,689.18	127.46	0.35	271	27.97	9.76	1.29	1.02	1.06 ( 0.87, 1.28)	0.575
Dabigatran	19,794	6,483.95	119.65	0.33	173	26.68	8.74	1.23	1.02	1.00 ( 0.07, 1.20)	0.575
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	19,542	2,938.95	54.93	0.15	121	41.17	6.19	5.78	0.87	1.16 ( 0.90, 1.51)	0.258



Table 42. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.	05								
Rivaroxaban	19,542	6,769.98	126.53	0.35	199	29.39	10.18	2.05	1 5 4	1 11 / 0 01 1 27)	0.202
Dabigatran	19,542	6,390.96	119.45	0.33	169	26.44	8.65	2.95	1.54	1.11 ( 0.91, 1.37)	0.302
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 4										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	26,827	9,260.57	126.08	0.35	382	41.25	14.24	7.31	3.1	1 22 / 1 04 1 44	0.013
Dabigatran	21,631	7,101.32	119.91	0.33	241	33.94	11.14	7.31	3.1	1.23 ( 1.04, 1.44)	0.013
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	20,835	3,121.17	54.72	0.15	177	56.71	8.5	15.06	2.26	1.36 ( 1.09, 1.71)	0.008
Dabigatran	20,835	3,121.17	54.72	0.15	130	41.65	6.24	15.00	2.20	1.50 ( 1.09, 1.71)	0.008
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.	05								
Rivaroxaban	20,835	7,191.33	126.07	0.35	303	42.13	14.54	9.38	3.74	1.29 ( 1.09, 1.54)	0.004
Dabigatran	20,835	6,870.31	120.44	0.33	225	32.75	10.8	9.30	5.74	1.29 (1.09, 1.34)	0.004
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 5										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	17,526	5,714.86	119.1	0.33	376	65.79	21.45	12.36	4.93	1.24 ( 1.05, 1.46)	0.01
Dabigatran	13,980	4,323.18	112.95	0.31	231	53.43	16.52	12.50	4.95	1.24 ( 1.03, 1.40)	0.01
1:1 Matched Condit	ional Analysis;	Caliper= 0.05	1								
Rivaroxaban	13,481	1,890.25	51.21	0.14	166	87.82	12.31	10.58	1.48	1.14 ( 0.91, 1.42)	0.258
Dabigatran	13,481	1,890.25	51.21	0.14	146	77.24	10.83	10.56	1.40	1.14 ( 0.91, 1.42)	0.238
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.	05								
Rivaroxaban	13,481	4,390.11	118.94	0.33	300	68.34	22.25	15.57	5.86	1.30 ( 1.09, 1.55)	0.003
Dabigatran	13,481	4,188.73	113.49	0.31	221	52.76	16.39	13.37	5.60	1.30 ( 1.09, 1.35)	0.003
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 6+										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	15,623	4,842.13	113.2	0.31	357	73.73	22.85	1.7	1.59	1.02 ( 0.87, 1.19)	0.795
Dabigatran	13,357	3,942.98	107.82	0.3	284	72.03	21.26	1.7	1.55	1.02 (0.07, 1.19)	0.755



Table 42. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,542	1,656.93	48.25	0.13	169	102	13.47	-2.41	-0.32	0.98 ( 0.79, 1.21)	0.829
Dabigatran	12,542	1,656.93	48.25	0.13	173	104.41	13.79	-2.41	-0.52	0.98 (0.79, 1.21)	0.829
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.	05								
Rivaroxaban	12,542	3,905.66	113.74	0.31	287	73.48	22.88	1 75	1 67	1 02 / 0 97 1 21)	0.764
Dabigatran	12,542	3,708.01	107.99	0.3	266	71.74	21.21	1.75	1.67	1.03 (0.87, 1.21)	0.764

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



 Table 43. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	1										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	10,726	3,711.82	126.4	0.35	63	16.97	5.87	-0.16	0.47	1.00 ( 0.68, 1.48)	0.985
Dabigatran	7,779	2,451.25	115.09	0.32	42	17.13	5.4	-0.10	0.47	1.00 ( 0.08, 1.48)	0.965
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	7,582	1,118.93	53.9	0.15	23	20.56	3.03	0.89	0.13	1.05 ( 0.58, 1.88)	0.882
Dabigatran	7,582	1,118.93	53.9	0.15	22	19.66	2.9	0.89	0.13	1.05 ( 0.58, 1.88)	0.882
1:1 Matched Uncon	ditional Analysi	is; Caliper= 0.0	05								
Rivaroxaban	7,582	2,591.50	124.84	0.34	44	16.98	5.8	-0.17	0.4		0.959
Dabigatran	7,582	2,390.63	115.16	0.32	41	17.15	5.41	-0.17	0.4	0.99 (0.65, 1.51)	0.959
HAS-BLED Score: 2											
Unmatched Analysi	's (Site-adjusted	only)									
Rivaroxaban	50,401	17,982.00	130.31	0.36	483	26.86	9.58	3.2	1.66	1.14 ( 0.99, 1.32)	0.074
Dabigatran	37,972	12,723.87	122.39	0.34	301	23.66	7.93	5.2	1.00	1.14 ( 0.99, 1.92)	0.074
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	37,179	5,705.52	56.05	0.15	227	39.79	6.11	7.89	1.21	1.25 ( 1.03, 1.52)	0.026
Dabigatran	37,179	5,705.52	56.05	0.15	182	31.9	4.9	7.05	1.21	1.25 ( 1.05, 1.52)	0.020
1:1 Matched Uncon	ditional Analysi	is; Caliper= 0.0	05								
Rivaroxaban	37,179	13,245.00	130.12	0.36	375	28.31	10.09	5.07	2.29	1.22 ( 1.05, 1.42)	0.01
Dabigatran	37,179	12,478.69	122.59	0.34	290	23.24	7.8	5.07	2.29	1.22 (1.05, 1.42)	0.01
HAS-BLED Score: 3											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	34,578	11,415.89	120.59	0.33	573	50.19	16.57	3.55	2.2	1.09 ( 0.96, 1.24)	0.185
Dabigatran	26,850	8,275.39	112.57	0.31	386	46.64	14.38	5.55	2.2	1.05 ( 0.50, 1.24)	0.105
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	25,923	3,678.69	51.83	0.14	263	71.49	10.15	8.16	1.16	1.13 ( 0.95, 1.35)	0.178
Dabigatran	25,923	3,678.69	51.83	0.14	233	63.34	8.99	0.10	1.10	1.13 ( 0.33, 1.33)	0.178



 Table 43. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

						Incidence		Incidence			
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	Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	25,923	8,530.15	120.19	0.33	449	52.64	17.32	6 59	2 1 2	1 1 6 / 1 01 1 22)	0.020
Dabigatran	25,923	7,989.80	112.57	0.31	368	46.06	14.2	6.58	3.12	1.16 ( 1.01, 1.33)	0.039
HAS-BLED Score: 4+	+										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	14,408	4,177.54	105.9	0.29	391	93.6	27.14	13.49	1 1 1	1 17 / 1 00 1 26)	0.053
Dabigatran	11,872	3,408.19	104.86	0.29	273	80.1	23	15.49	4.14	1.17 ( 1.00, 1.36)	0.055
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	11,241	1,440.71	46.81	0.13	185	128.41	16.46	17.35	2.22	1.16 ( 0.94, 1.43)	0.179
Dabigatran	11,241	1,440.71	46.81	0.13	160	111.06	14.23	17.55	2.22	1.10 ( 0.94, 1.45)	0.179
1:1 Matched Uncon	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	11,241	3,264.82	106.08	0.29	304	93.11	27.04	14.63	4.36	1.18 ( 1.00, 1.39)	0.051
Dabigatran	11,241	3,248.88	105.56	0.29	255	78.49	22.68	14.05	4.50	1.10 ( 1.00, 1.59)	0.051



Table 44. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	sis (Site-adjuste	d only)									
Rivaroxaban	111,816	37,792.24	123.45	0.34	1,527	40.41	13.66	19.41	7.91	2.11 ( 1.90, 2.35)	<0.001
Apixaban	77,232	21,151.93	100.03	0.27	444	20.99	5.75	19.41	7.91	2.11 ( 1.90, 2.55)	<0.001
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Rivaroxaban	75,889	10,853.49	52.24	0.14	661	60.9	8.71	24.00	4 99	2.77/1.09 $2.61$	<0.001
Apixaban	75,889	10,853.49	52.24	0.14	291	26.81	3.83	34.09	4.88	2.27 (1.98, 2.61)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Rivaroxaban	75,889	25,335.44	121.94	0.33	1,112	43.89	14.65	23.23	8.97	2.32 ( 2.07, 2.59)	<0.001
Apixaban	75,889	20,856.28	100.38	0.27	431	20.67	5.68	23.23	0.97	2.32 (2.07, 2.59)	<0.001



 Table 45. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

			A	A		Incidence		Incidence Rate Difference	Difference in		
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	per 1,000 Person- Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	95,580	32,365.36	123.68	0.34	1,150	35.53	12.03	17.02	6.93	2.09 ( 1.85, 2.36)	<0.001
Apixaban	64,648	17,827.12	100.72	0.28	330	18.51	5.1	17.02	0.95	2.09 ( 1.83, 2.30)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	63,624	9,121.46	52.36	0.14	472	51.75	7.42	28.39	4.07	2.22 ( 1.88, 2.61)	<0.001
Apixaban	63,624	9,121.46	52.36	0.14	213	23.35	3.35	20.39	4.07	2.22 ( 1.00, 2.01)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	)5								
Rivaroxaban	63,624	21,305.34	122.31	0.33	811	38.07	12.75	19.94	7.73	2.27 ( 1.99, 2.59)	<0.001
Apixaban	63,624	17,596.51	101.02	0.28	319	18.13	5.01	19.94	7.75	2.27 (1.99, 2.59)	<0.001
Antiplatelets											
Unmatched Analysi	is (Site-adjusted	l only)									
Rivaroxaban	16,236	5,426.88	122.08	0.33	377	69.47	23.22	35.18	14.16	2.30 ( 1.86, 2.83)	<0.001
Apixaban	12,584	3,324.81	96.5	0.26	114	34.29	9.06	55.10	14.10	2.30 ( 1.80, 2.83)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,067	1,679.34	50.83	0.14	191	113.74	15.83	69.07	9.61	2.55 ( 1.95, 3.33)	<0.001
Apixaban	12,067	1,679.34	50.83	0.14	75	44.66	6.22	09.07	9.01	2.33 ( 1.93, 3.33)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	)5								
Rivaroxaban	12,067	3,968.32	120.12	0.33	297	74.84	24.61	41.17	15.66	2.49 ( 2.00, 3.11)	<0.001
Apixaban	12,067	3,207.14	97.08	0.27	108	33.67	8.95	41.17	13.00	2.49 (2.00, 3.11)	<0.001



Table 46. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	59,919	19,861.98	121.07	0.33	695	34.99	11.6	17.3	6.76	2.15 ( 1.83, 2.52)	<0.001
Apixaban	40,104	10,966.23	99.88	0.27	194	17.69	4.84	17.5	0.70	2.15 ( 1.65, 2.52)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	39,359	5,660.85	52.53	0.14	304	53.7	7.72	29.5	4.24	2 2 2 / 1 0 1 2 7 1 )	<0.001
Apixaban	39,359	5,660.85	52.53	0.14	137	24.2	3.48	29.5	4.24	2.22 (1.81, 2.71)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	)5								
Rivaroxaban	39,359	12,870.32	119.44	0.33	497	38.62	12.63	21 11	7 02		-0.001
Apixaban	39,359	10,795.76	100.18	0.27	189	17.51	4.8	21.11	7.83	2.38 ( 2.01, 2.81)	<0.001
Sex: Female											
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	51,897	17,930.26	126.19	0.35	832	46.4	16.03	21.00	0.2	2 10 ( 1 02 2 12)	10 001
Apixaban	37,128	10,185.70	100.2	0.27	250	24.54	6.73	21.86	9.3	2.10 ( 1.83, 2.42)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	36,358	5,215.49	52.39	0.14	364	69.79	10.01	20.11	F (1	2 27 ( 1 00 2 74)	-0.001
Apixaban	36,358	5,215.49	52.39	0.14	160	30.68	4.4	39.11	5.61	2.27 (1.89, 2.74)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	)5								
Rivaroxaban	36,358	12,417.29	124.74	0.34	613	49.37	16.86	25.2	10.22	2 27 ( 4 05 - 2 62)	-0.001
Apixaban	36,358	10,013.53	100.6	0.28	241	24.07	6.63	25.3	10.23	2.27 (1.95, 2.63)	<0.001



Table 47. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	is (Site-adjuste	d only)									
Rivaroxaban	57,787	19,909.37	125.84	0.34	567	28.48	9.81	12.54	5.39	1.96 ( 1.65, 2.33)	<0.001
Apixaban	38,032	10,540.22	101.23	0.28	168	15.94	4.42	12.54	5.39	1.90 (1.05, 2.33)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	37,491	5,480.65	53.39	0.15	236	43.06	6.29	21.71	3.17		<0.001
Apixaban	37,491	5,480.65	53.39	0.15	117	21.35	3.12	21./1	3.17	2.02 (1.62, 2.52)	<0.001
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	37,491	12,780.59	124.51	0.34	398	31.14	10.62	15.21	6.19	2.12 ( 1.77, 2.55)	<0.001
Apixaban	37,491	10,423.04	101.54	0.28	166	15.93	4.43	15.21	0.19	2.12 ( 1.77, 2.55)	<0.001
Age Group: 75-84											
Unmatched Analys	is (Site-adjuste	d only)									
Rivaroxaban	44,196	14,954.61	123.59	0.34	735	49.15	16.63	25.01	9.99	2.25 ( 1.93, 2.62)	<0.001
Apixaban	31,939	8,784.27	100.46	0.28	212	24.13	6.64	25.01	5.55	2.25 ( 1.55, 2.02)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	30,797	4,378.82	51.93	0.14	320	73.08	10.39	40.65	5.78	2.25 ( 1.85, 2.75)	<0.001
Apixaban	30,797	4,378.82	51.93	0.14	142	32.43	4.61	40.05	5.78	2.23 ( 1.83, 2.73)	<0.001
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	30,797	10,287.68	122.01	0.33	536	52.1	17.4	28.82	10.98	2.46 ( 2.09, 2.90)	<0.001
Apixaban	30,797	8,504.11	100.86	0.28	198	23.28	6.43	20.02	10.56	2.40 ( 2.05, 2.50)	<0.001
Age Group: 85+											
Unmatched Analys		d only)									
Rivaroxaban	9,833	2,928.27	108.77	0.3	225	76.84	22.88	41.82	14.07	2.32 ( 1.76, 3.07)	<0.001
Apixaban	7,261	1,827.44	91.93	0.25	64	35.02	8.81	41.02	14.07	2.32 ( 1.70, 3.07)	
1:1 Matched Condi											
Rivaroxaban	7,020	898.42	46.74	0.13	88	97.95	12.54	57.88	7.41	2.44 ( 1.66, 3.60)	<0.001
Apixaban	7,020	898.42	46.74	0.13	36	40.07	5.13	57.00	,. <b>.</b> .	2(1.00, 5.00)	10.001



Table 47. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncor	nditional Analys	is; Caliper= 0	.05								
Rivaroxaban	7,020	2,078.32	108.13	0.3	165	79.39	23.5		14.67	2 40 / 1 70 2 22)	<0.001
Apixaban	7,020	1,779.64	92.59	0.25	62	34.84	8.83	44.55	14.07	2.40 (1.79, 3.22)	<0.001



Table 48. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	re: 0-1										
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	3,845	1,253.20	119.05	0.33	11	8.78	2.86	* * * * *	****	2.82 ( 0.62, 12.73)	0.178
Apixaban	2,079	586.61	103.06	0.28	****	****	****			2.82 (0.82, 12.73)	0.178
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	2,044	303.26	54.19	0.15	****	****	****	9.89	1.47		0.215
Apixaban	2,044	303.26	54.19	0.15	****	****	****	9.89	1.47	4.00 ( 0.45, 35.79)	0.215
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	2,044	650.49	116.24	0.32	****	****	****	7 0	2.45	2 22 / 0 60 45 08	0 125
Apixaban	2,044	578.58	103.39	0.28	****	****	****	7.3	2.45	3.32 ( 0.69, 15.98)	0.135
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	re: 2										
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	18,983	6,664.10	128.22	0.35	115	17.26	6.06	****	****	2.44 ( 1.59, 3.74)	<0.001
Apixaban	11,656	3,412.18	106.92	0.29	* * * * *	****	* * * * *			2.44 ( 1.55, 5.74)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	11,587	1,764.71	55.63	0.15	****	****	****	13.6	2.07	2.26 ( 1.32, 3.88)	0.003
Apixaban	11,587	1,764.71	55.63	0.15	****	****	****	15.0	2.07	2.20 ( 1.52, 5.66)	0.005
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	11,587	4,053.59	127.78	0.35	****	****	****	9.86	3.88	2.46 ( 1.57, 3.86)	<0.001
Apixaban	11,587	3,397.62	107.1	0.29	* * * * *	****	****	9.80	5.00	2.40 ( 1.57, 5.80)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Score	re: 3										
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	28,194	9,822.58	127.25	0.35	272	27.69	9.65	15.25	6.07	2.41 ( 1.84, 3.15)	<0.001
Apixaban	18,753	5,384.17	104.87	0.29	67	12.44	3.57	13.23	0.07	2.71 ( 1.07, 3.13)	<b>\0.001</b>
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	18,534	2,789.63	54.98	0.15	101	36.21	5.45	20.43	3.08	2.30 ( 1.61, 3.27)	<0.001
Apixaban	18,534	2,789.63	54.98	0.15	44	15.77	2.37	20.45	5.00	2.30 ( 1.01, 3.27)	<b>\U.UUI</b>


Table 48. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	18,534	6,379.88	125.73	0.34	180	28.21	9.71	45.04	6.45	2 44 / 4 04 2 20)	-0.001
Apixaban	18,534	5,333.47	105.11	0.29	66	12.37	3.56	15.84	6.15	2.41 (1.81, 3.20)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 4										
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	27,248	9,387.62	125.84	0.34	388	41.33	14.24	20.41	0 50	217/17(-200)	<0.001
Apixaban	18,872	5,161.97	99.91	0.27	108	20.92	5.72	20.41	8.52	2.17 (1.76, 2.69)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	18,616	2,684.04	52.66	0.14	170	63.34	9.13	38.75	5.59	2 5 9 / 1 0 4 2 4 2 )	<0.001
Apixaban	18,616	2,684.04	52.66	0.14	66	24.59	3.55	38.75	5.59	2.58 (1.94, 3.42)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	18,616	6,338.77	124.37	0.34	283	44.65	15.2	22 67	9.45	2 2 E / 1 99 2 02)	<0.001
Apixaban	18,616	5,102.06	100.1	0.27	107	20.97	5.75	23.67	9.45	2.35 ( 1.88, 2.93)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 5										
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	17,765	5,772.68	118.69	0.32	379	65.65	21.33	33.78	12.88	2.27 ( 1.83, 2.80)	<0.001
Apixaban	13,134	3,482.85	96.86	0.27	111	31.87	8.45	55.76	12.00	2.27 (1.05, 2.00)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,727	1,739.85	49.93	0.14	179	102.88	14.06	62.07	8.49	2.52 ( 1.92, 3.32)	<0.001
Apixaban	12,727	1,739.85	49.93	0.14	71	40.81	5.58	02.07	0.49	2.52 ( 1.52, 5.52)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	12,727	4,083.95	117.2	0.32	282	69.05	22.16	37.22	13.67	2.38 ( 1.90, 2.97)	<0.001
Apixaban	12,727	3,392.42	97.36	0.27	108	31.84	8.49	51.22	13.07	2.38 ( 1.30, 2.37)	\0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 6+										
Unmatched Analysi	is (Site-adjustea	l only)									
Rivaroxaban	15,781	4,892.05	113.23	0.31	362	74	22.94	32.39	12.73	1.98 ( 1.62, 2.42)	<0.001
Apixaban	12,738	3,124.16	89.58	0.25	130	41.61	10.21	52.55	12.75	1.30 (1.02, 2.42)	<b>NO.001</b>



Table 48. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,024	1,533.47	46.58	0.13	162	105.64	13.47	52.82	6 74		<0.001
Apixaban	12,024	1,533.47	46.58	0.13	81	52.82	6.74	52.82	6.74	2.00 (1.53, 2.61)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	05								
Rivaroxaban	12,024	3,714.25	112.83	0.31	283	76.19	23.54	25.00	12 56		<0.001
Apixaban	12,024	2,977.02	90.43	0.25	120	40.31	9.98	35.88	13.56	2.09 (1.69, 2.59)	<0.001

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 49. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0	-1										
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	10,937	3,780.12	126.24	0.35	66	17.46	6.03	8.8	3.57	2.15 ( 1.24, 3.72)	0.006
Apixaban	6,486	1,848.42	104.09	0.28	16	8.66	2.47	0.0	3.37	2.13 ( 1.24, 5.72)	0.000
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	6,472	974.13	54.98	0.15	29	29.77	4.48	17.45	2.63	2.42 ( 1.23, 4.74)	0.01
Apixaban	6,472	974.13	54.98	0.15	12	12.32	1.85	17.45	2.05	2.42 ( 1.25, 4.74)	0.01
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	.05								
Rivaroxaban	6,472	2,221.82	125.39	0.34	40	18	6.18	9.32	3.71	2 25 / 1 26 / 02)	0.006
Apixaban	6,472	1,843.56	104.04	0.28	16	8.68	2.47	9.52	5.71	2.25 ( 1.26, 4.03)	0.000
HAS-BLED Score: 2											
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	51,220	18,227.38	129.98	0.36	487	26.72	9.51	14.23	5.9	2.35 ( 1.92, 2.87)	<0.001
Apixaban	33,272	9,611.59	105.51	0.29	120	12.48	3.61	14.25	5.9	2.55 ( 1.92, 2.87)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	33,228	4,987.09	54.82	0.15	184	36.9	5.54	20.05	2.01	210/100 201	-0.001
Apixaban	33,228	4,987.09	54.82	0.15	84	16.84	2.53	20.05	3.01	2.19 ( 1.69, 2.84)	<0.001
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	.05								
Rivaroxaban	33,228	11,741.85	129.07	0.35	320	27.25	9.63	14.76	6.02	2 27 / 1 02 2 02)	<0.001
Apixaban	33,228	9,602.88	105.56	0.29	120	12.5	3.61	14.70	0.02	2.37 ( 1.92, 2.93)	<0.001
HAS-BLED Score: 3											
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	35,069	11,549.72	120.29	0.33	578	50.04	16.48	25.45	9.9	2.21 ( 1.86, 2.63)	<0.001
Apixaban	25,062	6,708.68	97.77	0.27	165	24.6	6.58	۷۵.45	5.5	2.21 ( 1.00, 2.05)	<b>NU.UUI</b>
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	24,588	3,454.66	51.32	0.14	248	71.79	10.09	40.81	5.73	2.32 ( 1.85, 2.91)	<0.001
Apixaban	24,588	3,454.66	51.32	0.14	107	30.97	4.35	40.01	5.75	2.32 ( 1.03, 2.91)	<0.001



Table 49. Effect Estimates for Risk of Gastrointestinal Bleeding among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

						Incidence		Incidence			
		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
Medical Product	Number of New Users	Years at Risk	Days at Risk	Years at Risk	Number of Events	Person- Years	1,000 New Users	Person- Years	1,000 New Users	(95% Confidence Interval)	Wald P-Value
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.	.05							· ·	
Rivaroxaban	24,588	8,043.89	119.49	0.33	415	51.59	16.88	26.00	10.25	2 25 ( 4 00 - 2 70)	-0.001
Apixaban	24,588	6,594.90	97.97	0.27	163	24.72	6.63	26.88	10.25	2.25 ( 1.88, 2.70)	<0.001
HAS-BLED Score: 4	+										
Unmatched Analys	is (Site-adjusted	l only)									
Rivaroxaban	14,590	4,235.01	106.02	0.29	396	93.51	27.14	45.57	15.62	2.14 ( 1.77, 2.60)	<0.001
Apixaban	12,412	2,983.24	87.79	0.24	143	47.93	11.52	45.57	15.02	2.14 ( 1.77, 2.00)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	11,496	1,409.49	44.78	0.12	189	134.09	16.44	72.37	8.87	2.17 ( 1.69, 2.80)	<0.001
Apixaban	11,496	1,409.49	44.78	0.12	87	61.72	7.57	/2.5/	0.07	2.17 (1.09, 2.80)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0	.05								
Rivaroxaban	11,496	3,293.70	104.65	0.29	333	101.1	28.97	E2 74	17 49	222/100 29E	<0.001
Apixaban	11,496	2,787.01	88.55	0.24	132	47.36	11.48	53.74	17.48	2.33 ( 1.90, 2.85)	<0.001



Table 50. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	is (Site-adjusted	d only)									
Dabigatran	84,562	26,877.42	116.09	0.32	1,002	37.28	11.85	16.15	6.07	1.91 ( 1.71, 2.14)	<0.001
Apixaban	76,887	21,016.72	99.84	0.27	444	21.13	5.77	10.15	0.07	1.91 (1.71, 2.14)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	69,054	9,442.44	49.94	0.14	504	53.38	7.3	20.7	2.02		<0.001
Apixaban	69,054	9,442.44	49.94	0.14	233	24.68	3.37	28.7	3.92	2.16 (1.85, 2.53)	<0.001
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	.05								
Dabigatran	69,054	21,886.65	115.77	0.32	833	38.06	12.06	18.01	6.55	204/191 221)	<0.001
Apixaban	69,054	19,001.49	100.51	0.28	381	20.05	5.52	10.01	0.55	2.04 (1.81, 2.31)	<0.001



Table 51. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

			Average	Average		Incidence Rate per		Incidence Rate Difference	Difference in		
Medical Product	Number of New Users	Person Years at Risk	Person Days at Risk	Person Years at Risk	Number of Events	1,000 Person- Years	Risk per 1,000 New Users	per 1,000 Person- Years	Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analys	is (Site-adjusted	only)									
Dabigatran	71,477	22,739.81	116.2	0.32	741	32.59	10.37	13.95	5.24	1.91 ( 1.67, 2.17)	<0.001
Apixaban	64,349	17,708.30	100.51	0.28	330	18.64	5.13	13.95	5.24	1.91 (1.07, 2.17)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	58,127	7,954.50	49.98	0.14	366	46.01	6.3	24.77	3.39	2.17 ( 1.80, 2.60)	<0.001
Apixaban	58,127	7,954.50	49.98	0.14	169	21.25	2.91	24.77	5.59	2.17 (1.80, 2.80)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Dabigatran	58,127	18,436.38	115.85	0.32	602	32.65	10.36	14.87	5.44	1.99 ( 1.73, 2.29)	<0.001
Apixaban	58,127	16,084.70	101.07	0.28	286	17.78	4.92	14.07	5.44	1.99 (1.75, 2.29)	<0.001
Antiplatelets											
Unmatched Analys	is (Site-adjusted	only)									
Dabigatran	13,085	4,137.62	115.5	0.32	261	63.08	19.95	28.62	10.85	1.96 ( 1.57, 2.45)	<0.001
Apixaban	12,538	3,308.42	96.38	0.26	114	34.46	9.09	20.02	10.85	1.90 ( 1.37, 2.43)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	10,645	1,416.73	48.61	0.13	145	102.35	13.62	59.29	7.89	2.38 ( 1.76, 3.21)	<0.001
Apixaban	10,645	1,416.73	48.61	0.13	61	43.06	5.73	39.29	7.09	2.30 ( 1.70, 3.21)	<0.001
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	)5								
Dabigatran	10,645	3,350.41	114.96	0.31	225	67.16	21.14	35.85	12.78	2.27 ( 1.77, 2.91)	<0.001
Apixaban	10,645	2,842.50	97.53	0.27	89	31.31	8.36	55.05	12.70	2.27 ( 1.77, 2.91)	<0.001



Table 52. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analys	is (Site-adjusted	only)									
Dabigatran	43,693	13,759.20	115.02	0.31	430	31.25	9.84	12 21	4.05		<0.001
Apixaban	39,862	10,869.87	99.6	0.27	195	17.94	4.89	13.31	4.95	1.86 ( 1.57, 2.20)	<0.001
1:1 Matched Condi	tional Analysis;	20.05 Caliper= 0	1								
Dabigatran	35,590	4,924.68	50.54	0.14	225	45.69	6.32	24.37	3.37	2 1 4 / 1 70 2 70	<0.001
Apixaban	35,590	4,924.68	50.54	0.14	105	21.32	2.95	24.37	3.37	2.14 ( 1.70, 2.70)	<0.001
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.0	)5								
Dabigatran	35,590	11,231.79	115.27	0.32	357	31.78	10.03	15 11		202/169 242	<0.001
Apixaban	35,590	9,775.76	100.33	0.27	163	16.67	4.58	15.11	5.45	2.02 (1.68, 2.43)	<0.001
Sex: Female											
Unmatched Analys	is (Site-adjusted	only)									
Dabigatran	40,869	13,118.22	117.24	0.32	572	43.6	14	19.06	7.27	1.96 ( 1.69, 2.28)	<0.001
Apixaban	37,025	10,146.86	100.1	0.27	249	24.54	6.73	19.00	1.21	1.90 ( 1.09, 2.20)	<0.001
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	33,046	4,469.73	49.4	0.14	273	61.08	8.26	31.55	4.27	2.07 ( 1.68, 2.55)	<0.001
Apixaban	33,046	4,469.73	49.4	0.14	132	29.53	3.99	21.22	4.27	2.07 (1.00, 2.33)	<0.001
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.0	)5								
Dabigatran	33,046	10,520.50	116.28	0.32	475	45.15	14.37	21.65	7.9	2.09 ( 1.78, 2.46)	<0.001
Apixaban	33,046	9,104.61	100.63	0.28	214	23.5	6.48	21.05	7.5	2.03 (1.70, 2.40)	<0.001



Table 53. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	sis (Site-adjuste	ed only)									
Dabigatran	40,753	13,154.60	117.9	0.32	279	21.21	6.85	5.18	2.41	1.43 ( 1.18, 1.73)	<0.001
Apixaban	37,862	10,478.49	101.08	0.28	168	16.03	4.44	5.18	2.41	1.43 ( 1.18, 1.73)	<0.001
1:1 Matched Cond	itional Analysis	s; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	33,356	4,660.42	51.03	0.14	142	30.47	4.26	9.66	1.35	1.46 ( 1.13, 1.90)	0.004
Apixaban	33,356	4,660.42	51.03	0.14	97	20.81	2.91	9.00	1.35	1.40 ( 1.13, 1.90)	0.004
1:1 Matched Unco	nditional Analy	ysis; Caliper= C	0.05								
Dabigatran	33,356	10,747.87	117.69	0.32	229	21.31	6.87	6.19	2.64	1.51 ( 1.22, 1.87)	<0.001
Apixaban	33,356	9,328.57	102.15	0.28	141	15.11	4.23	0.19	2.04	1.51 ( 1.22, 1.87)	<0.001
Age Group: 75-84											
Unmatched Analys	sis (Site-adjuste	ed only)									
Dabigatran	34,534	11,104.31	117.45	0.32	491	44.22	14.22	20.02	7.58	2.02 ( 1.71, 2.37)	<0.001
Apixaban	31,785	8,721.71	100.22	0.27	211	24.19	6.64	20.02	7.58	2.02 (1.71, 2.37)	<0.001
1:1 Matched Cond	itional Analysis	s; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	27,960	3,842.44	50.19	0.14	245	63.76	8.76	36.7	5.04	2.36 ( 1.87, 2.96)	<0.001
Apixaban	27,960	3,842.44	50.19	0.14	104	27.07	3.72	50.7	5.04	2.30 ( 1.87, 2.90)	<0.001
1:1 Matched Unco	nditional Analy	ysis; Caliper= C	0.05								
Dabigatran	27,960	8,966.28	117.13	0.32	419	46.73	14.99	24.44	8.83	2.28 ( 1.91, 2.73)	<0.001
Apixaban	27,960	7,715.29	100.79	0.28	172	22.29	6.15	24.44	8.85	2.28 ( 1.91, 2.75)	<0.001
Age Group: 85+											
Unmatched Analys	sis (Site-adjuste	ed only)									
Dabigatran	9,275	2,618.52	103.12	0.28	232	88.6	25.01	52.82	16.04	2.59 ( 1.96, 3.41)	<0.001
Apixaban	7,240	1,816.52	91.64	0.25	65	35.78	8.98	52.02	10.04	2.33 ( 1.30, 3.41)	10.001
1:1 Matched Cond	itional Analysis	s; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	6,751	810.25	43.84	0.12	95	117.25	14.07	69.11	8.3	2.44 ( 1.68, 3.54)	<0.001
Apixaban	6,751	810.25	43.84	0.12	39	48.13	5.78	03.11	0.0	2.77 ( 1.00, 3.34)	×0.001



Table 53. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Incidence Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
Medical Product	Number of New Users	Years at Risk	Days at Risk	Years at Risk	Number of Events	Person- Years	1,000 New Users	Person- Years	1,000 New Users	(95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analy	sis; Caliper=	0.05								
Dabigatran	6,751	1,880.79	101.76	0.28	168	89.32	24.89	53.99	16	2.60 ( 1.93, 3.50)	<0.001
Apixaban	6,751	1,698.15	91.87	0.25	60	35.33	8.89	55.99	10	2.00 ( 1.95, 5.50)	<0.001



Table 54. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	ore: 0-1										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	2,775	860.22	113.22	0.31	****	****	****	7.02	2.27	3.30 ( 0.71, 15.27)	0.127
Apixaban	2,050	581.06	103.53	0.28	****	****	****	7.02	2.27	3.30 ( 0.71, 15.27)	0.127
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	1,959	269.58	50.26	0.14	****	****	****	14.84	2.04	5.00 ( 0.58, 42.80)	0.142
Apixaban	1,959	269.58	50.26	0.14	****	****	****	14.04	2.04	5.00 ( 0.58, 42.80)	0.142
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05								
Dabigatran	1,959	611.11	113.94	0.31	****	****	* * * * *	8.03	2.55	5.84 ( 0.70, 48.54)	0.103
Apixaban	1,959	558.56	104.14	0.29	****	****	****	8.05	2.55	5.84 ( 0.70, 48.54)	0.105
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	ore: 2										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	12,962	4,152.11	117	0.32	****	****	****	7.72	2.69	2.03 ( 1.28, 3.22)	0.003
Apixaban	11,594	3,380.86	106.51	0.29	****	****	****	1.12	2.09	2.03 (1.28, 5.22)	0.003
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	10,670	1,535.13	52.55	0.14	****	****	****	13.03	1.87	2.25 ( 1.25, 4.05)	0.007
Apixaban	10,670	1,535.13	52.55	0.14	****	****	****	15.05	1.87	2.23 (1.23, 4.03)	0.007
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05								
Dabigatran	10,670	3,418.60	117.02	0.32	****	****	****	7.52	2.62	1.99 ( 1.22, 3.25)	0.006
Apixaban	10,670	3,120.74	106.83	0.29	****	****	****	7.52	2.02	1.55 ( 1.22, 5.25)	0.000
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	ore: 3										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	19,816	6,490.63	119.64	0.33	173	26.65	8.73	14.14	5.14	2.28 ( 1.72, 3.03)	<0.001
Apixaban	18,659	5,353.49	104.79	0.29	67	12.52	3.59	17.17	5.14	2.23 ( 1.72, 3.03)	.0.001
1:1 Matched Cond	itional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	16,641	2,371.64	52.05	0.14	87	36.68	5.23	21.93	3.12	2.49 ( 1.68, 3.68)	<0.001
Apixaban	16,641	2,371.64	52.05	0.14	35	14.76	2.1	21.55	5.12	2.75 ( 1.00, 5.00)	10.001



Table 54. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05							· · ·	
Dabigatran	16,641	5,439.00	119.38	0.33	148	27.21	8.89				
Apixaban	16,641	4,792.91	105.2	0.29	57	11.89	3.43	15.32	5.47	2.47 (1.82, 3.35)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 4										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	21,646	7,105.08	119.89	0.33	241	33.92	11.13	42.45	5.20		.0.004
Apixaban	18,800	5,123.62	99.54	0.27	110	21.47	5.85	12.45	5.28	1.71 (1.36, 2.14)	<0.001
1:1 Matched Cond	itional Analysis,	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	17,117	2,367.47	50.52	0.14	112	47.31	6.54	20.7	2.00	4 70 ( 4 24 2 42)	.0.004
Apixaban	17,117	2,367.47	50.52	0.14	63	26.61	3.68	20.7	2.86	1.78 (1.31, 2.42)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05								
Dabigatran	17,117	5,626.09	120.05	0.33	197	35.02	11.51		F 70	1 70 / 1 10 2 20)	-0.001
Apixaban	17,117	4,688.69	100.05	0.27	98	20.9	5.73	14.11	5.78	1.79 ( 1.40, 2.29)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 5										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	13,991	4,324.43	112.89	0.31	231	53.42	16.51	21.98	8.2		<0.001
Apixaban	13,112	3,467.30	96.59	0.26	109	31.44	8.31	21.98	8.2	1.85 ( 1.47, 2.33)	<0.001
1:1 Matched Cond	itional Analysis,	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	11,373	1,507.72	48.42	0.13	109	72.29	9.58	31.84	4.22	1.79 ( 1.31, 2.44)	<0.001
Apixaban	11,373	1,507.72	48.42	0.13	61	40.46	5.36	51.04	4.22	1.79 (1.51, 2.44)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= (	0.05								
Dabigatran	11,373	3,491.79	112.14	0.31	197	56.42	17.32	26.15	9.23	1.99 ( 1.55, 2.56)	<0.001
Apixaban	11,373	3,039.75	97.62	0.27	92	30.27	8.09	20.15	5.25	1.33 (1.33, 2.30)	<0.001
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 6+										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	13,372	3,944.95	107.75	0.3	284	71.99	21.24	30.2	10.98	1.95 ( 1.58, 2.40)	<0.001
Apixaban	12,672	3,110.39	89.65	0.25	130	41.8	10.26	50.2	10.90	1.55 (1.56, 2.40)	<b>\U.UUI</b>



Table 54. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Cond	litional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	10,805	1,339.38	45.28	0.12	138	103.03	12.77	50.77	6.20	107/149 262)	<0.001
Apixaban	10,805	1,339.38	45.28	0.12	70	52.26	6.48	50.77	6.29	1.97 (1.48, 2.63)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper=	0.05								
Dabigatran	10,805	3,158.75	106.78	0.29	230	72.81	21.29	22 52	11 57	2.05/1.54.2.50	-0.001
Apixaban	10,805	2,672.77	90.35	0.25	105	39.29	9.72	33.53	11.57	2.06 (1.64, 2.60)	<0.001

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 55. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0	-1										
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	7,788	2,453.26	115.06	0.32	42	17.12	5.39	8.43	2.91	2 00 / 1 12 2 22)	0.013
Apixaban	6,455	1,841.15	104.18	0.29	16	8.69	2.48	8.43	2.91	2.09 ( 1.17, 3.72)	0.013
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	51								
Dabigatran	6,098	859.78	51.5	0.14	16	18.61	2.62	* * * * *	* * * * *	2 (7 / 1 0 / (9 1))	0.04
Apixaban	6,098	859.78	51.5	0.14	****	****	****			2.67 (1.04, 6.81)	0.04
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Dabigatran	6,098	1,924.61	115.28	0.32	32	16.63	5.25	8.02	2.79	2.08 ( 1.13, 3.85)	0.019
Apixaban	6,098	1,742.89	104.39	0.29	15	8.61	2.46	8.02	2.79	2.08 ( 1.15, 5.85)	0.019
HAS-BLED Score: 2											
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	38,021	12,735.60	122.34	0.33	301	23.63	7.92	10.94	4.26	2.02 ( 1.63, 2.49)	<0.001
Apixaban	33,078	9,534.18	105.28	0.29	121	12.69	3.66	10.54	4.20	2.02 ( 1.03, 2.43)	<0.001
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	$\frac{1}{2}$								
Dabigatran	30,531	4,396.15	52.59	0.14	149	33.89	4.88	****	* * * * *	2.10 ( 1.58, 2.78)	<0.001
Apixaban	30,531	4,396.15	52.59	0.14	****	****	* * * * *			2.10 ( 1.36, 2.78)	<0.001
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Dabigatran	30,531	10,198.85	122.01	0.33	241	23.63	7.89	11.15	4.29	2.05 ( 1.63, 2.57)	<0.001
Apixaban	30,531	8,811.10	105.41	0.29	110	12.48	3.6	11.15	4.29	2.03 ( 1.03, 2.37)	<0.001
HAS-BLED Score: 3											
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	26,875	8,280.22	112.53	0.31	386	46.62	14.36	22.05	7.8	2.03 ( 1.69, 2.44)	<0.001
Apixaban	24,997	6,675.35	97.54	0.27	164	24.57	6.56	22.05	7.0	2.03 ( 1.03, 2.44)	
1:1 Matched Condi	itional Analysis	; Caliper= 0.05									
Dabigatran	22,081	2,971.20	49.15	0.13	192	64.62	8.7	35.68	4.8	2.23 ( 1.73, 2.88)	<0.001
Apixaban	22,081	2,971.20	49.15	0.13	86	28.94	3.89	55.00	τιυ	2.23 ( 1.73, 2.00)	.0.001



Table 55. Effect Estimates for Risk of Gastrointestinal Bleeding among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analys	sis; Caliper= C	0.05								
Dabigatran	22,081	6,800.57	112.49	0.31	315	46.32	14.27	22.60	7.02	207/160252	<0.001
Apixaban	22,081	5,923.91	97.99	0.27	140	23.63	6.34	22.69	7.93	2.07 (1.69, 2.53)	<0.001
HAS-BLED Score: 4	+										
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	11,878	3,408.34	104.81	0.29	273	80.1	22.98	21.90	11 11		<0.001
Apixaban	12,357	2,966.03	87.67	0.24	143	48.21	11.57	31.89	11.41	1.85 (1.51, 2.27)	<0.001
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	9,997	1,222.69	44.67	0.12	168	137.4	16.81		0.2	2 24 / 1 71 2 04	-0.001
Apixaban	9,997	1,222.69	44.67	0.12	75	61.34	7.5	76.06	9.3	2.24 ( 1.71, 2.94)	<0.001
1:1 Matched Unco	nditional Analys	sis; Caliper= C	0.05								
Dabigatran	9,997	2,859.68	104.48	0.29	240	83.93	24.01	27 17	12.6	100/150 247)	<0.001
Apixaban	9,997	2,438.17	89.08	0.24	114	46.76	11.4	37.17	12.6	1.98 (1.58, 2.47)	<0.001

<sup>1</sup>Conditional analysis includes informative events and person-time.



 Table 56. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Incidence Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
Medical Product	Number of New Users	Years at Risk	Days at Risk	Years at Risk	Number of Events	Person- Years	1,000 New Users	Person- Years	1,000 New Users	(95% Confidence Interval)	Wald P-Value
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	110,113	37,287.25	123.68	0.34	194	5.2	1.76	1.67	0.64	1.49 ( 1.16, 1.90)	0.002
Dabigatran	84,473	26,858.70	116.13	0.32	95	3.54	1.12	1.07	0.04	1.49 (1.10, 1.90)	0.002
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	.1								
Rivaroxaban	82,326	12,020.37	53.33	0.15	67	5.57	0.81	1.16	0.17	1.26 ( 0.88, 1.81)	0.202
Dabigatran	82,326	12,020.37	53.33	0.15	53	4.41	0.64	1.10	0.17	1.20 ( 0.88, 1.81)	0.202
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0	.05								
Rivaroxaban	82,326	27,774.62	123.23	0.34	157	5.65	1.91	2.22	0.81	1 67 ( 1 20 2 17)	<0.001
Dabigatran	82,326	26,242.22	116.43	0.32	90	3.43	1.09	2.22	0.81	1.67 (1.29, 2.17)	<0.001



 Table 57. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	94,068	31,920.44	123.94	0.34	153	4.79	1.63	1.18	0.48	1.34 ( 1.03, 1.76)	0.032
Dabigatran	71,402	22,722.51	116.23	0.32	82	3.61	1.15	1.10	0.46	1.54 (1.05, 1.70)	0.052
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	69,758	10,226.98	53.55	0.15	54	5.28	0.77	****	****	1 77 / 0 97 1 97	0.313
Dabigatran	69,758	10,226.98	53.55	0.15	****	****	****			1.23 (0.82, 1.83)	0.313
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	69,758	23,594.14	123.54	0.34	122	5.17	1.75	1.71	0.65	1.52 ( 1.14, 2.02)	0.004
Dabigatran	69,758	22,245.22	116.48	0.32	77	3.46	1.1	1./1	0.05	1.52 ( 1.14, 2.02)	0.004
Antiplatelets											
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	16,045	5,366.81	122.17	0.33	41	7.64	2.56	4.5	1.56	2.43 ( 1.30, 4.54)	0.005
Dabigatran	13,071	4,136.20	115.58	0.32	13	3.14	0.99	4.5	1.50	2.45 ( 1.50, 4.54)	0.005
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,416	1,791.59	52.7	0.14	16	8.93	1.29	****	****	2 (7 / 1 0 / 6 9 1)	0.04
Dabigatran	12,416	1,791.59	52.7	0.14	****	****	****			2.67 (1.04, 6.81)	0.04
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	12,416	4,137.37	121.71	0.33	35	8.46	2.82	5.17	1.77	2.58 ( 1.36, 4.89)	0.004
Dabigatran	12,416	3,953.22	116.29	0.32	13	3.29	1.05	5.17	1.//	2.30 ( 1.30, 4.89)	0.004

<sup>1</sup>Conditional analysis includes informative events and person-time.



 Table 58. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analys	is (Site-adjusted	l only)									
Rivaroxaban	58,957	19,586.52	121.34	0.33	109	5.57	1.85	2	0.73	1.56 ( 1.11, 2.19)	0.01
Dabigatran	43,649	13,750.04	115.06	0.32	49	3.56	1.12	2	0.75	1.30 ( 1.11, 2.19)	0.01
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	42,684	6,223.10	53.25	0.15	38	6.11	0.89	1.77	0.26	1 41 / 0.96 2 20)	0.175
Dabigatran	42,684	6,223.10	53.25	0.15	27	4.34	0.63	1.//	0.26	1.41 ( 0.86, 2.30)	0.175
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	42,684	14,091.00	120.58	0.33	87	6.17	2.04	2.61	0.91		0.002
Dabigatran	42,684	13,457.06	115.15	0.32	48	3.57	1.12	2.01	0.91	1.73 ( 1.22, 2.46)	0.002
Sex: Female											
Unmatched Analys	is (Site-adjusted	l only)									
Rivaroxaban	51,156	17,700.73	126.38	0.35	85	4.8	1.66	1 20	0.53	1 40 ( 0 07 - 2 01)	0.07
Dabigatran	40,824	13,108.67	117.28	0.32	46	3.51	1.13	1.29	0.53	1.40(0.97, 2.01)	0.07
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	39,269	5,728.64	53.28	0.15	29	5.06	0.74	0.07	0.12	1 21 ( 0 70 - 2 00)	0.493
Dabigatran	39,269	5,728.64	53.28	0.15	24	4.19	0.61	0.87	0.13	1.21 ( 0.70, 2.08)	0.493
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	39,269	13,558.25	126.11	0.35	69	5.09	1.76	1 77	0.00	1 50 ( 1 07 2 2 2)	0.021
Dabigatran	39,269	12,651.02	117.67	0.32	42	3.32	1.07	1.77	0.69	1.58 ( 1.07, 2.32)	0.021



 Table 59. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	is (Site-adjuste	d only)									
Rivaroxaban	56,862	19,632.17	126.11	0.35	72	3.67	1.27	0.93	0.38	1.33 ( 0.89, 1.98)	0.168
Dabigatran	40,695	13,143.72	117.97	0.32	36	2.74	0.88	0.93	0.38	1.33 (0.89, 1.98)	0.108
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	$5^{1}$								
Rivaroxaban	39,926	5,941.38	54.35	0.15	22	3.7	0.55	****	* * * * *	1.37 ( 0.72, 2.62)	0.332
Dabigatran	39,926	5,941.38	54.35	0.15	****	****	****			1.37 (0.72, 2.62)	0.332
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Rivaroxaban	39,926	13,763.29	125.91	0.34	52	3.78	1.3	1.07	0.43	1.39 ( 0.90, 2.13)	0.137
Dabigatran	39,926	12,914.53	118.14	0.32	35	2.71	0.88	1.07	0.43	1.39 ( 0.90, 2.13)	0.137
Age Group: 75-84											
Unmatched Analys	is (Site-adjuste	d only)									
Rivaroxaban	43,527	14,753.69	123.8	0.34	92	6.24	2.11	2.27	0.84	1.59 ( 1.11, 2.27)	0.012
Dabigatran	34,508	11,097.34	117.46	0.32	44	3.96	1.28	2.27	0.84	1.39 ( 1.11, 2.27)	0.012
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	$5^{1}$								
Rivaroxaban	33,403	4,890.12	53.47	0.15	34	6.95	1.02	1.23	0.18	1.21 ( 0.74, 2.00)	0.447
Dabigatran	33,403	4,890.12	53.47	0.15	28	5.73	0.84	1.25	0.18	1.21 (0.74, 2.00)	0.447
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	.05								
Rivaroxaban	33,403	11,304.40	123.61	0.34	78	6.9	2.34	3.09	1.11	1.83 ( 1.25, 2.67)	0.002
Dabigatran	33,403	10,763.47	117.69	0.32	41	3.81	1.23	5.09	1.11	1.85 (1.25, 2.07)	0.002
Age Group: 85+											
Unmatched Analys	is (Site-adjuste	d only)									
Rivaroxaban	9,724	2,901.39	108.98	0.3	30	10.34	3.09	4.61	1.47	1.88 ( 1.00, 3.52)	0.049
Dabigatran	9,270	2,617.65	103.14	0.28	15	5.73	1.62	4.01	1.47	1.00 ( 1.00, 5.32)	0.045
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	$5^{1}$								
Rivaroxaban	8,388	1,075.86	46.85	0.13	13	12.08	1.55	****	* * * * *	2.17 ( 0.82, 5.70)	0.117
				0.13	****	****	****			Z.I/IU.0Z. 0./UI	



 Table 59. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Medical Product 1:1 Matched Uncone	nditional Analys	sis; Caliper= (	0.05								
Rivaroxaban	8,388	2,516.20	109.57	0.3	27	10.73	3.22	C 11	1.01		0.012
Dabigatran	8,388	2,382.12	103.73	0.28	11	4.62	1.31	6.11	1.91	2.46 (1.21, 5.01)	0.013

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 60. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 0-1										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	3,766	1,229.68	119.26	0.33	****	****	****	1.74	0.61	1.64 ( 0.32, 8.48)	0.553
Dabigatran	2,768	859.06	113.36	0.31	****	****	****	1.74	0.01	1.04 ( 0.52, 8.48)	0.555
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	2,726	395.41	52.98	0.15	0	0	0	0	0		
Dabigatran	2,726	395.41	52.98	0.15	0	0	0	0	0	-	-
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.	05								
Rivaroxaban	2,726	888.59	119.06	0.33	****	****	****	2.45	0.73	1 00 / 0 22 0 02)	0.400
Dabigatran	2,726	849.07	113.76	0.31	****	****	****	2.15	0.73	1.80 ( 0.33, 9.83)	0.499
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 2										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	18,605	6,550.83	128.6	0.35	****	****	****	1.37	0.53	1.78 ( 0.75, 4.21)	0.189
Dabigatran	12,943	4,148.21	117.06	0.32	****	****	****	1.57	0.55	1.78 (0.75, 4.21)	0.169
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	12,668	1,959.70	56.5	0.15	****	****	****	2.04	0.22		0.22
Dabigatran	12,668	1,959.70	56.5	0.15	****	****	****	2.04	0.32	2.33 ( 0.60, 9.02)	0.22
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.	05								
Rivaroxaban	12,668	4,454.51	128.43	0.35	****	****	****	2.24	0.07		0.040
Dabigatran	12,668	4,065.50	117.22	0.32	****	****	****	2.34	0.87	2.55 (1.00, 6.47)	0.049
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 3										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	27,766	9,689.18	127.46	0.35	46	4.75	1.66	0.74	0.34	1 10 / 0 74 1 02)	0 476
Dabigatran	19,794	6,483.95	119.65	0.33	26	4.01	1.31	0.74	0.34	1.19 ( 0.74, 1.93)	0.476
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	19,542	2,938.95	54.93	0.15	12	4.08	0.61	-1.02	-0.15	0 90 / 0 27 1 71	0 565
Dabigatran	19,542	2,938.95	54.93	0.15	15	5.1	0.77	-1.02	-0.12	0.80 (0.37, 1.71)	0.565



Table 60. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

						Incidence		Incidence Rate			
	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Medical Product 1:1 Matched Uncor					Lvents	Tears	New Osers	Tears	New Osers	intervalj	F-value
Rivaroxaban	19,542	6,769.98	126.53	0.35	38	5.61	1.94				
Dabigatran	19,542	6,390.96	120.55	0.33	25	3.91	1.94	1.7	0.67	1.45 ( 0.87, 2.40)	0.15
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	,	0,390.90	119.45	0.33	25	3.91	1.28				
Unmatched Analys		an (u)									
,	, ,	.,	120.00	0.25	<b>F</b> 1	F F1	1.0				
Rivaroxaban	26,827	9,260.57	126.08	0.35	51	5.51	1.9	2.27	0.84	1.68 ( 1.03, 2.75)	0.039
Dabigatran	21,631	7,101.32	119.91 1	0.33	23	3.24	1.06				
1:1 Matched Condi											
Rivaroxaban	20,835	3,121.17	54.72	0.15	15	4.81	0.72	-0.32	-0.05	0.94 ( 0.46, 1.90)	0.857
Dabigatran	20,835	3,121.17	54.72	0.15	16	5.13	0.77				
1:1 Matched Uncor	•	•									
Rivaroxaban	20,835	7,191.33	126.07	0.35	39	5.42	1.87	2.37	0.86	1.76 ( 1.04, 3.00)	0.037
Dabigatran	20,835	6,870.31	120.44	0.33	21	3.06	1.01			- ( - , ,	
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco											
Unmatched Analys	is (Site-adjusted	only)									
Rivaroxaban	17,526	5,714.86	119.1	0.33	24	4.2	1.37	-0.43	-0.06	0.97 ( 0.53, 1.76)	0.909
Dabigatran	13,980	4,323.18	112.95	0.31	20	4.63	1.43	0.45	0.00	0.57 (0.55, 1.70)	0.505
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Rivaroxaban	13,481	1,890.25	51.21	0.14	****	****	****	1.06	0.15	1.22 ( 0.51, 2.95)	0.655
Dabigatran	13,481	1,890.25	51.21	0.14	* * * * *	****	* * * * *	1.00	0.15	1.22 (0.51, 2.95)	0.055
1:1 Matched Unco	nditional Analys	s; Caliper= 0.	05								
Rivaroxaban	13,481	4,390.11	118.94	0.33	17	3.87	1.26	0.0	0.22		0.656
Dabigatran	13,481	4,188.73	113.49	0.31	20	4.77	1.48	-0.9	-0.22	0.86 (0.45, 1.66)	0.656
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 6+										
Unmatched Analys	is (Site-adjusted	only)									
Rivaroxaban	15,623	4,842.13	113.2	0.31	48	9.91	3.07	F.C	1.0	2 20 / 1 22 2 20	0) 0.002
Dabigatran	13,357	3,942.98	107.82	0.3	17	4.31	1.27	5.6	1.8	2.29 (1.32, 3.99)	0.003



Table 60. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,542	1,656.93	48.25	0.13	****	****	****	2.02	0.40		0.226
Dabigatran	12,542	1,656.93	48.25	0.13	****	****	****	3.62	0.48	1.67 (0.73, 3.81)	0.226
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.	05								
Rivaroxaban	12,542	3,905.66	113.74	0.31	39	9.99	3.11	F 04	1.01		0.002
Dabigatran	12,542	3,708.01	107.99	0.3	15	4.05	1.2	5.94	1.91	2.46 (1.35, 4.46)	0.003

<sup>1</sup>Conditional analysis includes informative events and person-time.



 Table 61. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19,

 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	1										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	10,726	3,711.82	126.4	0.35	17	4.58	1.58	* * * * *	* * * * *		0.735
Dabigatran	7,779	2,451.25	115.09	0.32	****	****	****			1.14 ( 0.52, 2.50)	0.735
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	7,582	1,118.93	53.9	0.15	****	****	****	0.89	0.13	1.20 ( 0.37, 3.93)	0.763
Dabigatran	7,582	1,118.93	53.9	0.15	****	****	****	0.89	0.15	1.20 ( 0.57, 5.95)	0.705
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	7,582	2,591.50	124.84	0.34	12	4.63	1.58	****	* * * * *	1.15 ( 0.50, 2.66)	0.746
Dabigatran	7,582	2,390.63	115.16	0.32	****	****	****			1.13 ( 0.30, 2.00)	0.740
HAS-BLED Score: 2											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	50,401	17,982.00	130.31	0.36	71	3.95	1.41	1.12	0.46	1.41 ( 0.94, 2.11)	0.095
Dabigatran	37,972	12,723.87	122.39	0.34	36	2.83	0.95	1.12	0.40	1.41 (0.34, 2.11)	0.055
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	37,179	5,705.52	56.05	0.15	30	5.26	0.81	1.75	0.27	1.50 ( 0.85, 2.64)	0.16
Dabigatran	37,179	5,705.52	56.05	0.15	20	3.51	0.54	1.75	0.27	1.50 ( 0.85, 2.04)	0.10
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.0	05								
Rivaroxaban	37,179	13,245.00	130.12	0.36	59	4.45	1.59	1.65	0.65	1.60 ( 1.05, 2.44)	0.028
Dabigatran	37,179	12,478.69	122.59	0.34	35	2.8	0.94	1.05	0.05	1.00 ( 1.03, 2.44)	0.020
HAS-BLED Score: 3											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	34,578	11,415.89	120.59	0.33	65	5.69	1.88	1.22	0.5	1.27 ( 0.85, 1.91)	0.245
Dabigatran	26,850	8,275.39	112.57	0.31	37	4.47	1.38	±,	0.5	(0.00, 1.01)	0.240
1:1 Matched Condit											
Rivaroxaban	25,923	3,678.69	51.83	0.14	22	5.98	0.85	1.09	0.15	1.22 ( 0.66, 2.28)	0.528
Dabigatran	25,923	3,678.69	51.83	0.14	18	4.89	0.69	1.00	0.15	1.22 ( 0.00, 2.20)	0.020



Table 61. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

								Incidence			
	Number of	Person Years	Average Person Days	Average Person Years	Number of	Incidence Rate per 1,000 Person-	Risk per 1,000	Rate Difference per 1,000 Person-	Difference in Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	25,923	8,530.15	120.19	0.33	49	5.74	1.89	1.61	0.62	1.40 ( 0.90, 2.19)	0.132
Dabigatran	25,923	7,989.80	112.57	0.31	33	4.13	1.27	1.01	0.62	1.40 ( 0.90, 2.19)	0.152
HAS-BLED Score: 4-	÷										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	14,408	4,177.54	105.9	0.29	41	9.81	2.85	* * * * *	* * * * *		0.001
Dabigatran	11,872	3,408.19	104.86	0.29	****	****	****			2.94 (1.52, 5.69)	0.001
1:1 Matched Condi	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	11,241	1,440.71	46.81	0.13	****	****	****	7.04	0.00		0.010
Dabigatran	11,241	1,440.71	46.81	0.13	****	****	****	7.64	0.98	3.75 ( 1.24, 11.30)	0.019
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.	05								
Rivaroxaban	11,241	3,264.82	106.08	0.29	36	11.03	3.2	****	****		-0.001
Dabigatran	11,241	3,248.88	105.56	0.29	****	****	****	an an an an an		3.15 ( 1.61, 6.15)	<0.001

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 62. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analys</b>	is (Site-adjusted	d only)									
Rivaroxaban	111,816	37,792.24	123.45	0.34	196	5.19	1.75	0.74	0.54	1.17 ( 0.92, 1.50)	0.204
Apixaban	77,232	21,151.93	100.03	0.27	94	4.44	1.22	0.74	0.54	1.17 (0.92, 1.50)	0.204
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	75,889	10,853.49	52.24	0.14	65	5.99	0.86	1.66	0.24	1 28 / 0 05 2 01)	0.00
Apixaban	75,889	10,853.49	52.24	0.14	47	4.33	0.62	1.66	0.24	1.38 (0.95, 2.01)	0.09
1:1 Matched Uncon	nditional Analys	sis; Caliper= 0	05								
Rivaroxaban	75,889	25,335.44	121.94	0.33	144	5.68	1.9	1 10	0.66	1 28 / 0 00 1 (7)	0.062
Apixaban	75,889	20,856.28	100.38	0.27	94	4.51	1.24	1.18	0.66	1.28 ( 0.99, 1.67)	0.063



Table 63. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

		Person	Average	Average		Incidence Rate per	Dielemen	Incidence Rate Difference	Difference in	Useend Datia	
	Number of	Years	Person Days	Person Years	Number of	1,000 Person-	Risk per 1,000	per 1,000 Person-	Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
No Antiplatelets											
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	95,580	32,365.36	123.68	0.34	155	4.79	1.62	0.58	0.46	1.15 ( 0.87, 1.52)	0.319
Apixaban	64,648	17,827.12	100.72	0.28	75	4.21	1.16	0.50	0.40	1.15 ( 0.87, 1.52)	0.515
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Rivaroxaban	63,624	9,121.46	52.36	0.14	59	6.47	0.93	2.08	0.3	1.47 ( 0.99, 2.20)	0.058
Apixaban	63,624	9,121.46	52.36	0.14	40	4.39	0.63	2.08	0.5	1.47 (0.55, 2.20)	0.038
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	63,624	21,305.34	122.31	0.33	112	5.26	1.76	0.99	0.58	1.27 ( 0.94, 1.70)	0.116
Apixaban	63,624	17,596.51	101.02	0.28	75	4.26	1.18	0.99	0.58	1.27 (0.94, 1.70)	0.110
Antiplatelets											
Unmatched Analys	is (Site-adjusted	d only)									
Rivaroxaban	16,236	5,426.88	122.08	0.33	41	7.55	2.53	1.84	1.02	1.31 ( 0.75, 2.27)	0.34
Apixaban	12,584	3,324.81	96.5	0.26	19	5.71	1.51	1.04	1.02	1.51 (0.75, 2.27)	0.54
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Rivaroxaban	12,067	1,679.34	50.83	0.14	14	8.34	1.16	1 10	0.17		0.695
Apixaban	12,067	1,679.34	50.83	0.14	12	7.15	0.99	1.19	0.17	1.17 ( 0.54, 2.52)	0.095
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Rivaroxaban	12,067	3,968.32	120.12	0.33	31	7.81	2.57	1 20	0.00	1 20 / 0 72 2 21	0 202
Apixaban	12,067	3,207.14	97.08	0.27	19	5.92	1.57	1.89	0.99	1.30 ( 0.73, 2.31)	0.382



Table 64. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Sex

						Incidence		Incidence Rate			
	Number of	Person Years	Average Person Days	Average Person Years	Number of	Rate per 1,000 Person-	Risk per 1,000	Difference per 1,000 Person-	Difference in Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
Sex: Male											
Unmatched Analys	sis (Site-adjuste	rd only)									
Rivaroxaban	59,919	19,861.98	121.07	0.33	110	5.54	1.84	0.8	0.54	1.17 ( 0.84, 1.63)	0.351
Apixaban	40,104	10,966.23	99.88	0.27	52	4.74	1.3	0.0	0.54	1.17 (0.04, 1.03)	0.551
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	$5^{1}$								
Rivaroxaban	39,359	5,660.85	52.53	0.14	33	5.83	0.84	1.41	0.2	1 22 / 0 70 2 22	0.295
Apixaban	39,359	5,660.85	52.53	0.14	25	4.42	0.64	1.41	0.2	1.32 ( 0.79, 2.22)	0.295
1:1 Matched Unco	nditional Analy	vsis; Caliper= 0	.05								
Rivaroxaban	39,359	12,870.32	119.44	0.33	77	5.98	1.96	1 17	0.64		0 212
Apixaban	39,359	10,795.76	100.18	0.27	52	4.82	1.32	1.17	0.64	1.25 ( 0.88, 1.79)	0.212
Sex: Female											
Unmatched Analys	sis (Site-adjuste	rd only)									
Rivaroxaban	51,897	17,930.26	126.19	0.35	86	4.8	1.66	0.67	0.53	1.17 ( 0.81, 1.70)	0.397
Apixaban	37,128	10,185.70	100.2	0.27	42	4.12	1.13	0.07	0.55	1.17 (0.81, 1.70)	0.597
1:1 Matched Condi	itional Analysis	; Caliper= 0.05	$5^{1}$								
Rivaroxaban	36,358	5,215.49	52.39	0.14	35	6.71	0.96	2.07	0.44	1 94 / 1 05 2 22)	0.022
Apixaban	36,358	5,215.49	52.39	0.14	19	3.64	0.52	3.07	0.44	1.84 ( 1.05, 3.22)	0.032
1:1 Matched Unco	nditional Analy	vsis; Caliper= 0	.05								
Rivaroxaban	36,358	12,417.29	124.74	0.34	67	5.4	1.84	1 2	0.00	1 22 ( 0 00 1 05)	0.161
Apixaban	36,358	10,013.53	100.6	0.28	42	4.19	1.16	1.2	0.69	1.32 (0.89, 1.95)	0.161



Table 65. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	57,787	19,909.37	125.84	0.34	73	3.67	1.26	0.25	0.32	1.10 ( 0.73, 1.64)	0.649
Apixaban	38,032	10,540.22	101.23	0.28	36	3.42	0.95	0.25	0.52	1.10(0.75, 1.04)	0.049
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	37,491	5,480.65	53.39	0.15	27	4.93	0.72	* * * * *	* * * * *	1.69 ( 0.91, 3.13)	0.097
Apixaban	37,491	5,480.65	53.39	0.15	****	****	****			1.09 ( 0.91, 5.15)	0.097
1:1 Matched Uncon	ditional Analysi	is; Caliper= 0.(	05								
Rivaroxaban	37,491	12,780.59	124.51	0.34	58	4.54	1.55	1.08	0.59	1.37 ( 0.90, 2.08)	0.139
Apixaban	37,491	10,423.04	101.54	0.28	36	3.45	0.96	1.08	0.59	1.57 (0.90, 2.08)	0.159
Age Group: 75-84											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	44,196	14,954.61	123.59	0.34	93	6.22	2.1	2.12	0.98	1.52 ( 1.03, 2.23)	0.035
Apixaban	31,939	8,784.27	100.46	0.28	36	4.1	1.13	2.12	0.98	1.52 ( 1.05, 2.25)	0.055
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	30,797	4,378.82	51.93	0.14	28	6.39	0.91	2.51	0.36	1.65 ( 0.90, 3.01)	0.105
Apixaban	30,797	4,378.82	51.93	0.14	17	3.88	0.55	2.51	0.50	1.05 ( 0.90, 5.01)	0.105
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.(	05								
Rivaroxaban	30,797	10,287.68	122.01	0.33	59	5.74	1.92	1.5	0.75	1.36 ( 0.89, 2.06)	0.152
Apixaban	30,797	8,504.11	100.86	0.28	36	4.23	1.17	1.5	0.75	1.50 ( 0.89, 2.00)	0.152
Age Group: 85+											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	9,833	2,928.27	108.77	0.3	30	10.24	3.05	-1.79	0.02	0.84 ( 0.48, 1.46)	0.525
Apixaban	7,261	1,827.44	91.93	0.25	22	12.04	3.03	-1.75	0.02	0.04 (0.40, 1.40)	0.525
1:1 Matched Condit	tional Analysis;	Caliper= 0.05	1								
Rivaroxaban	7,020	898.42	46.74	0.13	13	14.47	1.85	****	* * * * *	2.60 ( 0.93, 7.29)	0.069
Apixaban	7,020	898.42	46.74	0.13	****	****	****			2.00 ( 0.33, 7.23)	0.009



Table 65. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncor	nditional Analysis	s; Caliper= 0.	05								
Rivaroxaban	7,020	2,078.32	108.13	0.3	27	12.99	3.85	0.62	0.71		0 000
Apixaban	7,020	1,779.64	92.59	0.25	22	12.36	3.13	0.63	0.71	1.04 (0.59, 1.83)	0.898

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 66. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	re: 0-1										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	3,845	1,253.20	119.05	0.33	* * * * *	****	****	2.29	0.82	2.34 ( 0.27, 20.18)	0.438
Apixaban	2,079	586.61	103.06	0.28	* * * * *	****	****	2.29	0.82	2.34 ( 0.27, 20.18)	0.436
1:1 Matched Condi	tional Analysis; C	Caliper= 0.05	1								
Rivaroxaban	2,044	303.26	54.19	0.15	****	****	****	3.3	0.49	2.00 ( 0.18, 22.06)	0.571
Apixaban	2,044	303.26	54.19	0.15	****	****	****	5.5	0.49	2.00 ( 0.18, 22.00)	0.371
1:1 Matched Uncor	nditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	2,044	650.49	116.24	0.32	****	****	****	4.42	1.47	3.82 ( 0.43, 34.23)	0.23
Apixaban	2,044	578.58	103.39	0.28	****	****	****	4.42	1.47	5.82 (0.45, 54.25)	0.25
CHA2DS2-VASc Scor	re: 2										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	18,983	6,664.10	128.22	0.35	* * * * *	****	****	1.24	0.54	1.68 ( 0.67, 4.20)	0.269
Apixaban	11,656	3,412.18	106.92	0.29	****	****	****	1.24	0.54	1.08 ( 0.07, 4.20)	0.209
1:1 Matched Condi	tional Analysis; C	Caliper= 0.05	l								
Rivaroxaban	11,587	1,764.71	55.63	0.15	****	****	****	2.83	0.43	3.50 ( 0.73, 16.85)	0.118
Apixaban	11,587	1,764.71	55.63	0.15	****	****	****	2.05	0.45	5.50 ( 0.75, 10.85)	0.116
1:1 Matched Uncor	nditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	11,587	4,053.59	127.78	0.35	****	****	****	1.93	0.78	2.06 ( 0.80, 5.34)	0.136
Apixaban	11,587	3,397.62	107.1	0.29	****	****	****	1.95	0.78	2.00 ( 0.80, 5.54)	0.150
CHA2DS2-VASc Scor	re: 3										
Unmatched Analysi	is (Site-adjusted	only)									
Rivaroxaban	28,194	9,822.58	127.25	0.35	46	4.68	1.63	0.97	0.57	1.18 ( 0.70, 2.01)	0.534
Apixaban	18,753	5,384.17	104.87	0.29	20	3.71	1.07	0.57	0.57	1.10(0.70, 2.01)	0.334
1:1 Matched Condi	tional Analysis; C	Caliper= 0.05	1								
Rivaroxaban	18,534	2,789.63	54.98	0.15	12	4.3	0.65	****	* * * * *	2.00 ( 0.75, 5.33)	0.166
Apixaban	18,534	2,789.63	54.98	0.15	****	****	****			2.00 ( 0.75, 5.55)	0.100



Table 66. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

						Incidence		Incidence Rate			
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	18,534	6,379.88	125.73	0.34	29	4.55	1.56	0.0	0.40	4 4 2 4 0 6 2 2 0 4 )	0.670
Apixaban	18,534	5,333.47	105.11	0.29	20	3.75	1.08	0.8	0.49	1.13 (0.63, 2.01)	0.679
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 4										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	27,248	9,387.62	125.84	0.34	53	5.65	1.95	0.0	0.62		0.425
Apixaban	18,872	5,161.97	99.91	0.27	25	4.84	1.32	0.8	0.62	1.21 ( 0.75, 1.95)	0.435
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05									
Rivaroxaban	18,616	2,684.04	52.66	0.14	23	8.57	1.24	2.61	0.20	1 44 / 0 76 2 72)	0.265
Apixaban	18,616	2,684.04	52.66	0.14	16	5.96	0.86	2.61	0.38	1.44 ( 0.76, 2.72)	0.265
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	18,616	6,338.77	124.37	0.34	40	6.31	2.15	1.41	0.81	1 27 / 0 02 2 25	0 224
Apixaban	18,616	5,102.06	100.1	0.27	25	4.9	1.34	1.41	0.81	1.37 ( 0.83, 2.25)	0.224
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 5										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	17,765	5,772.68	118.69	0.32	****	****	****	-1.3	-0.1	0.79 ( 0.43, 1.46)	0.456
Apixaban	13,134	3,482.85	96.86	0.27	****	****	****	-1.5	-0.1	0.79 (0.43, 1.40)	0.456
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05									
Rivaroxaban	12,727	1,739.85	49.93	0.14	****	****	****	0	0	1.00 ( 0.42, 2.40)	1
Apixaban	12,727	1,739.85	49.93	0.14	****	****	****	0	U	1.00 ( 0.42, 2.40)	T
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	12,727	4,083.95	117.2	0.32	****	****	****	0.21	0.24	100/054 196)	0.001
Apixaban	12,727	3,392.42	97.36	0.27	****	****	****	-0.21	0.24	1.00 ( 0.54, 1.86)	0.991
CHA <sub>2</sub> DS <sub>2</sub> -VASc Scor	e: 6+										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	15,781	4,892.05	113.23	0.31	48	9.81	3.04	2.45	1.24	1.38 ( 0.83, 2.27)	0.211
Apixaban	12,738	3,124.16	89.58	0.25	23	7.36	1.81	2.45	1.24	1.30 ( 0.03, 2.27)	0.211



Table 66. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05	1								
Rivaroxaban	12,024	1,533.47	46.58	0.13	16	10.43	1.33	****	* * * * *		0.068
Apixaban	12,024	1,533.47	46.58	0.13	****	****	****			2.29 ( 0.94, 5.56)	0.068
1:1 Matched Uncon	nditional Analysis	; Caliper= 0.0	05								
Rivaroxaban	12,024	3,714.25	112.83	0.31	34	9.15	2.83	1 1 2	0.01	1 22 / 0 72 2 10)	0.440
Apixaban	12,024	2,977.02	90.43	0.25	23	7.73	1.91	1.43	0.91	1.23 ( 0.72, 2.10)	0.449

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 67. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
HAS-BLED Score: 0-	1										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	10,937	3,780.12	126.24	0.35	17	4.5	1.55	****	* * * * *	1.56 ( 0.57, 4.27)	0.385
Apixaban	6,486	1,848.42	104.09	0.28	****	****	****			1.50 ( 0.57, 4.27)	0.385
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	6,472	974.13	54.98	0.15	****	****	****	0	0	1.00 ( 0.20, 4.95)	1
Apixaban	6,472	974.13	54.98	0.15	****	****	****	0	0	1.00 ( 0.20, 4.95)	T
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	)5								
Rivaroxaban	6,472	2,221.82	125.39	0.34	****	****	****	1.34	0.62	1.50 ( 0.50, 4.52)	0.471
Apixaban	6,472	1,843.56	104.04	0.28	****	****	****	1.54	0.62	1.50 ( 0.50, 4.52)	0.471
HAS-BLED Score: 2											
Unmatched Analysi	's (Site-adjusted	only)									
Rivaroxaban	51,220	18,227.38	129.98	0.36	73	4	1.43	****	* * * * *	1.12 ( 0.75, 1.69)	0.576
Apixaban	33,272	9,611.59	105.51	0.29	****	****	****			1.12 (0.75, 1.09)	0.570
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	33,228	4,987.09	54.82	0.15	* * * * *	****	* * * * *	3.41	0.51	2.55 ( 1.27, 5.11)	0.009
Apixaban	33,228	4,987.09	54.82	0.15	* * * * *	****	* * * * *	5.41	0.51	2.55 ( 1.27, 5.11)	0.009
1:1 Matched Uncon	ditional Analysi	s; Caliper= 0.0	)5								
Rivaroxaban	33,228	11,741.85	129.07	0.35	* * * * *	****	* * * * *	1.23	0.66	1.33 ( 0.86, 2.04)	0.197
Apixaban	33,228	9,602.88	105.56	0.29	****	****	****	1.25	0.00	1.55 ( 0.80, 2.04)	0.157
HAS-BLED Score: 3											
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	35,069	11,549.72	120.29	0.33	65	5.63	1.85	0.41	0.46	1.09 ( 0.72, 1.65)	0.682
Apixaban	25,062	6,708.68	97.77	0.27	35	5.22	1.4	0.71	0.40	1.05 ( 0.72, 1.05)	0.002
1:1 Matched Condit	tional Analysis; (	Caliper= 0.05	1								
Rivaroxaban	24,588	3,454.66	51.32	0.14	23	6.66	0.94	-0.29	-0.04	0.96 ( 0.54, 1.70)	0.884
Apixaban	24,588	3,454.66	51.32	0.14	24	6.95	0.98	-0.23	-0.04	0.50 (0.54, 1.70)	0.004



Table 67. Effect Estimates for Risk of Intracranial Hemorrhage among Rivaroxaban vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

						Incidence		Incidence Rate			
Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Rate per 1,000 Person- Years	Risk per 1,000 New Users	Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Uncon	ditional Analysis	; Caliper= 0.0	)5								
Rivaroxaban	24,588	8,043.89	119.49	0.33	50	6.22	2.03	0.04	0.64		0.444
Apixaban	24,588	6,594.90	97.97	0.27	35	5.31	1.42	0.91	0.61	1.20 (0.78, 1.86)	0.411
HAS-BLED Score: 4+	÷										
Unmatched Analysi	s (Site-adjusted	only)									
Rivaroxaban	14,590	4,235.01	106.02	0.29	41	9.68	2.81	2.98	1.2	1.50 ( 0.87, 2.56)	0.142
Apixaban	12,412	2,983.24	87.79	0.24	20	6.7	1.61	2.90	1.2	1.50 ( 0.87, 2.50)	0.142
1:1 Matched Condit	tional Analysis; C	Caliper= 0.05	1								
Rivaroxaban	11,496	1,409.49	44.78	0.12	12	8.51	1.04	0.71	-0.09	0 0 2 / 0 4 2 2 0 2 )	0.943
Apixaban	11,496	1,409.49	44.78	0.12	13	9.22	1.13	-0.71	-0.09	0.92 (0.42, 2.02)	0.842
1:1 Matched Uncon	ditional Analysis	s; Caliper= 0.0	)5								
Rivaroxaban	11,496	3,293.70	104.65	0.29	29	8.8	2.52	1 62	0.79	1 20 / 0 72 2 29	0.205
Apixaban	11,496	2,787.01	88.55	0.24	20	7.18	1.74	1.63	0.78	1.29 ( 0.73, 2.28)	0.385

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 68. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
<b>Unmatched Analy</b>	/sis (Site-adjus	ted only)									
Dabigatran	84,562	26,877.42	116.09	0.32	95	3.53	1.12	-0.94	-0.1	0.79 ( 0.59, 1.05)	0.107
Apixaban	76,887	21,016.72	99.84	0.27	94	4.47	1.22	-0.94	-0.1	0.79 (0.59, 1.05)	0.107
1:1 Matched Cond	ditional Analys	sis; Caliper= 0	.05 <sup>1</sup>								
Dabigatran	69,054	9,442.44	49.94	0.14	39	4.13	0.56	0.74	0.1		0.440
Apixaban	69,054	9,442.44	49.94	0.14	46	4.87	0.67	-0.74	-0.1	0.85 (0.55, 1.30)	0.448
1:1 Matched Unco	onditional Ana	lysis; Caliper	= 0.05								
Dabigatran	69,054	21,886.65	115.77	0.32	75	3.43	1.09	1 1	0.16		0.070
Apixaban	69,054	19,001.49	100.51	0.28	86	4.53	1.25	-1.1	-0.16	6 0.75 (0.55, 1.03)	0.079



Table 69. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Antiplatelet Use

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
No Antiplatelets											
Unmatched Analysi	is (Site-adjusted	l only)									
Dabigatran	71,477	22,739.81	116.2	0.32	82	3.61	1.15	-0.63	-0.02	0.83 ( 0.61, 1.15)	0.267
Apixaban	64,349	17,708.30	100.51	0.28	75	4.24	1.17	-0.05	-0.02	0.85 (0.01, 1.15)	0.207
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	58,127	7,954.50	49.98	0.14	****	****	****	0	0	1.00 ( 0.02 . 1.02)	1
Apixaban	58,127	7,954.50	49.98	0.14	****	****	****	0	0	1.00 ( 0.62, 1.62)	1
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Dabigatran	58,127	18,436.38	115.85	0.32	****	****	****	0.7	0.05		0.250
Apixaban	58,127	16,084.70	101.07	0.28	68	4.23	1.17	-0.7	-0.05	0.82 (0.58, 1.16)	0.258
Antiplatelets											
Unmatched Analysi	is (Site-adjusted	l only)									
Dabigatran	13,085	4,137.62	115.5	0.32	13	3.14	0.99	2.0	0.52	0.00 ( 0.20 1.21)	0 1 5 4
Apixaban	12,538	3,308.42	96.38	0.26	19	5.74	1.52	-2.6	-0.52	0.60 ( 0.29, 1.21)	0.154
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	10,645	1,416.73	48.61	0.13	* * * * *	****	****	4.24	0.50	0.22 ( 0.00 1.22)	0.000
Apixaban	10,645	1,416.73	48.61	0.13	* * * * *	****	****	-4.24	-0.56	0.33 ( 0.09, 1.23)	0.099
1:1 Matched Uncor	nditional Analys	is; Caliper= 0.0	05								
Dabigatran	10,645	3,350.41	114.96	0.31	* * * * *	****	****	****	****	0.45 ( 0.20 - 1.02)	
Apixaban	10,645	2,842.50	97.53	0.27	18	6.33	1.69			0.45 ( 0.20, 1.02)	0.055

<sup>1</sup>Conditional analysis includes informative events and person-time.


Table 70. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, 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	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Sex: Male											
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	43,693	13,759.20	115.02	0.31	49	3.56	1.12	-1.22	-0.18	0.75 ( 0.50, 1.11)	0 1 4 7
Apixaban	39,862	10,869.87	99.6	0.27	52	4.78	1.3	-1.22	-0.18	0.75 (0.50, 1.11)	0.147
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	35,590	4,924.68	50.54	0.14	26	5.28	0.73	1.02	0.14	1.24 ( 0.70, 2.20)	0.467
Apixaban	35,590	4,924.68	50.54	0.14	21	4.26	0.59	1.02	0.14	1.24 ( 0.70, 2.20)	0.407
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Dabigatran	35,590	11,231.79	115.27	0.32	42	3.74	1.18	0.96	0.09		0.326
Apixaban	35,590	9,775.76	100.33	0.27	45	4.6	1.26	-0.86	-0.08	0.81 (0.53, 1.24)	0.320
Sex: Female											
Unmatched Analys	is (Site-adjusted	d only)									
Dabigatran	40,869	13,118.22	117.24	0.32	46	3.51	1.13	-0.63	-0.01	0.84 ( 0.55, 1.29)	0.43
Apixaban	37,025	10,146.86	100.1	0.27	42	4.14	1.13	-0.05	-0.01	0.84 (0.55, 1.29)	0.45
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	33,046	4,469.73	49.4	0.14	15	3.36	0.45	0.22	0.02		0.952
Apixaban	33,046	4,469.73	49.4	0.14	14	3.13	0.42	0.22	0.03	1.07 ( 0.52, 2.22)	0.853
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Dabigatran	33,046	10,520.50	116.28	0.32	33	3.14	1	1 27	0.24	070/044 141	0 1 2 2
Apixaban	33,046	9,104.61	100.63	0.28	41	4.5	1.24	-1.37	-0.24	0.70 ( 0.44, 1.11)	0.132

<sup>1</sup>Conditional analysis includes informative events and person-time.



Table 71. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
Age Group: 65-74											
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	40,753	13,154.60	117.9	0.32	36	2.74	0.88	-0.7	-0.07	0.78 ( 0.49, 1.24)	0.294
Apixaban	37,862	10,478.49	101.08	0.28	36	3.44	0.95	-0.7	-0.07	0.78 (0.49, 1.24)	0.294
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Dabigatran	33,356	4,660.42	51.03	0.14	****	****	****	* * * * *	* * * * *	0.73 ( 0.34, 1.60)	0 425
Apixaban	33,356	4,660.42	51.03	0.14	15	3.22	0.45			0.73 (0.34, 1.60)	0.435
1:1 Matched Uncor	nditional Analy	sis; Caliper= 0.	05								
Dabigatran	33,356	10,747.87	117.69	0.32	* * * * *	****	****	****	* * * * *	0.83 ( 0.50, 1.38)	0.464
Apixaban	33,356	9,328.57	102.15	0.28	31	3.32	0.93			0.85 ( 0.50, 1.58)	0.404
Age Group: 75-84											
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	34,534	11,104.31	117.45	0.32	44	3.96	1.27	-0.17	0.14	0.99 ( 0.63, 1.54)	0.949
Apixaban	31,785	8,721.71	100.22	0.27	36	4.13	1.13	0.17	0.14	0.99 (0.05, 1.54)	0.545
1:1 Matched Condi	itional Analysis;	Caliper= 0.05	1								
Dabigatran	27,960	3,842.44	50.19	0.14	20	5.21	0.72	0.52	0.07	1.11 ( 0.59, 2.10)	0.746
Apixaban	27,960	3,842.44	50.19	0.14	18	4.68	0.64	0.52	0.07	1.11 ( 0.55, 2.10)	0.740
1:1 Matched Uncor	nditional Analys	sis; Caliper= 0.	05								
Dabigatran	27,960	8,966.28	117.13	0.32	36	4.02	1.29	-0.26	0.11	0.94 ( 0.58, 1.53)	0.814
Apixaban	27,960	7,715.29	100.79	0.28	33	4.28	1.18	0.20	0.11	0.54 ( 0.56, 1.55)	0.014
Age Group: 85+											
Unmatched Analys											
Dabigatran	9,275	2,618.52	103.12	0.28	15	5.73	1.62	-6.38	-1.42	0.46 ( 0.23, 0.90)	0.022
Apixaban	7,240	1,816.52	91.64	0.25	22	12.11	3.04	0.00			0.022
1:1 Matched Condi											
Dabigatran	6,751	810.25	43.84	0.12	****	****	****	****	* * * * *	0.33 ( 0.11, 1.03)	0.057
Apixaban	6,751	810.25	43.84	0.12	12	14.81	1.78			0.00 ( 0.11, 1.00)	0.007



Table 71. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and Age Group

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analys	is; Caliper= 0	.05								
Dabigatran	6,751	1,880.79	101.76	0.28	****	****	****	* * * * *	****	0.20/0.10 0.00)	0.010
Apixaban	6,751	1,698.15	91.87	0.25	21	12.37	3.11			0.39 ( 0.18, 0.86)	0.019

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 72. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 0-1										
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	2,775	860.22	113.22	0.31	****	****	* * * * *	0.0	0.22	1 40 ( 0 12 16 20)	0 75 1
Apixaban	2,050	581.06	103.53	0.28	****	****	****	0.6	0.23	1.48 ( 0.13, 16.29)	0.751
1:1 Matched Condi	tional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	1,959	269.58	50.26	0.14	0	0	0	0	0		
Apixaban	1,959	269.58	50.26	0.14	0	0	0	0	0	-	-
1:1 Matched Uncor	nditional Analy	vsis; Caliper= 0	0.05								
Dabigatran	1,959	611.11	113.94	0.31	* * * * *	****	****	-0.15	0	1.03 ( 0.06, 16.42)	0.985
Apixaban	1,959	558.56	104.14	0.29	****	****	****	-0.15	0	1.05 ( 0.00, 10.42)	0.965
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 2										
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	12,962	4,152.11	117	0.32	* * * * *	****	****	-0.09	0.02	0.79 ( 0.26, 2.44)	0.686
Apixaban	11,594	3,380.86	106.51	0.29	* * * * *	****	* * * * *	-0.09	0.02	0.79 (0.20, 2.44)	0.000
1:1 Matched Condi	tional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	10,670	1,535.13	52.55	0.14	* * * * *	****	* * * * *	0	0	1.00 ( 0.14, 7.10)	1
Apixaban	10,670	1,535.13	52.55	0.14	* * * * *	****	* * * * *	0	0	1.00 ( 0.14, 7.10)	T
1:1 Matched Uncor	nditional Analy	vsis; Caliper= 0	0.05								
Dabigatran	10,670	3,418.60	117.02	0.32	* * * * *	****	* * * * *	-0.14	0	0.80 ( 0.22, 2.89)	0.736
Apixaban	10,670	3,120.74	106.83	0.29	* * * * *	****	* * * * *	-0.14	0	0.80 ( 0.22, 2.89)	0.730
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 3										
Unmatched Analys	is (Site-adjuste	d only)									
Dabigatran	19,816	6,490.63	119.64	0.33	26	4.01	1.31	0.27	0.24	1.07 ( 0.59, 1.93)	0.827
Apixaban	18,659	5,353.49	104.79	0.29	20	3.74	1.07	0.27	0.24	1.07 (0.33, 1.33)	0.027
1:1 Matched Condi	tional Analysis	; Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	16,641	2,371.64	52.05	0.14	14	5.9	0.84	****	* * * * *	2.00 ( 0.81, 4.96)	0.134
Apixaban	16,641	2,371.64	52.05	0.14	****	****	****			2.00 ( 0.01, 4.90)	0.134



Table 72. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Unco	nditional Analy	sis; Caliper= 0	0.05								
Dabigatran	16,641	5,439.00	119.38	0.33	23	4.23	1.38	0.00	0.42	1 24 ( 0 ( 5 2 2 0)	0 5 0 7
Apixaban	16,641	4,792.91	105.2	0.29	16	3.34	0.96	0.89	0.42	1.24 ( 0.65, 2.38)	0.507
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 4										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	21,646	7,105.08	119.89	0.33	23	3.24	1.06	-1.64	-0.27	0.70 ( 0.40, 1.24)	0.221
Apixaban	18,800	5,123.62	99.54	0.27	25	4.88	1.33	-1.04	-0.27	0.70 (0.40, 1.24)	0.221
1:1 Matched Cond	itional Analysis;	: Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	17,117	2,367.47	50.52	0.14	12	5.07	0.7	-0.42	-0.06	0.92 ( 0.42, 2.02)	0.842
Apixaban	17,117	2,367.47	50.52	0.14	13	5.49	0.76	-0.42	-0.06	0.92 ( 0.42, 2.02)	0.842
1:1 Matched Unco	nditional Analy	sis; Caliper= C	0.05								
Dabigatran	17,117	5,626.09	120.05	0.33	18	3.2	1.05	-1.71	-0.29	0.68 ( 0.36, 1.26)	0.217
Apixaban	17,117	4,688.69	100.05	0.27	23	4.91	1.34	-1./1	-0.29	0.08 ( 0.50, 1.20)	0.217
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 5										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	13,991	4,324.43	112.89	0.31	20	4.62	1.43	-0.85	-0.02	0.77 ( 0.40, 1.47)	0.428
Apixaban	13,112	3,467.30	96.59	0.26	19	5.48	1.45	-0.85	-0.02	0.77 (0.40, 1.47)	0.428
1:1 Matched Cond	itional Analysis;	: Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	11,373	1,507.72	48.42	0.13	****	****	****	-5.31	-0.7		0.046
Apixaban	11,373	1,507.72	48.42	0.13	****	****	****	-5.31	-0.7	0.27 ( 0.08, 0.98)	0.046
1:1 Matched Unco	nditional Analy	sis; Caliper= C	0.05								
Dabigatran	11,373	3,491.79	112.14	0.31	14	4.01	1.23	1 01	-0.35	0 62 / 0 20 1 28	0 109
Apixaban	11,373	3,039.75	97.62	0.27	18	5.92	1.58	-1.91	-0.35	0.62 ( 0.30, 1.28)	0.198
CHA <sub>2</sub> DS <sub>2</sub> -VASc Sco	re: 6+										
Unmatched Analys	sis (Site-adjuste	d only)									
Dabigatran	13,372	3,944.95	107.75	0.3	17	4.31	1.27	-3.09	-0.54	0.64 ( 0.34, 1.21)	0.171
Apixaban	12,672	3,110.39	89.65	0.25	23	7.39	1.82	-3.05	-0.34	0.04 (0.54, 1.21)	0.171



Table 72. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and CHA<sub>2</sub>DS<sub>2</sub>-VASc Score

Medical Product	Number of New Users	Person Years at Risk	Average Person Days at Risk	Average Person Years at Risk	Number of Events	Incidence Rate per 1,000 Person- Years	Risk per 1,000 New Users	Incidence Rate Difference per 1,000 Person- Years	Difference in Risk per 1,000 New Users	Hazard Ratio (95% Confidence Interval)	Wald P-Value
1:1 Matched Condi	itional Analysis;	Caliper= 0.0	5 <sup>1</sup>								
Dabigatran	10,805	1,339.38	45.28	0.12	****	****	****	* * * * *	****		0.274
Apixaban	10,805	1,339.38	45.28	0.12	12	8.96	1.11			0.67 (0.27, 1.63)	0.374
1:1 Matched Unco	nditional Analys	sis; Caliper= (	0.05								
Dabigatran	10,805	3,158.75	106.78	0.29	****	****	****	4 1 2	0.92		0.096
Apixaban	10,805	2,672.77	90.35	0.25	****	****	****	-4.12	-0.83	0.55 (0.28, 1.09)	0.086

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Table 73. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

	Number of	Person Years	Average Person Days	Average Person Years	Number of	Incidence Rate per 1,000 Person-	Risk per 1,000	Incidence Rate Difference per 1,000 Person-	Difference in Risk per 1,000	Hazard Ratio (95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
HAS-BLED Score: 0-3	_										
Unmatched Analysis											
Dabigatran	7,788	2,453.26	115.06	0.32	****	****	****	1.36	0.51	1.26 ( 0.42, 3.80)	0.683
Apixaban	6,455	1,841.15	104.18	0.29	****	****	****				0.000
1:1 Matched Condit			1								
Dabigatran	6,098	859.78	51.5	0.14	****	****	****	2.33	0.33	2.00 ( 0.37, 10.92)	0.423
Apixaban	6,098	859.78	51.5	0.14	****	****	****	2.55	0.35	2.00 ( 0.07, 10.02)	0.425
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.0	05								
Dabigatran	6,098	1,924.61	115.28	0.32	****	****	****	0.77	0.33	1.08 ( 0.33, 3.55)	0.896
Apixaban	6,098	1,742.89	104.39	0.29	****	****	****	0.77	0.33	1.08 ( 0.55, 5.55)	0.850
HAS-BLED Score: 2											
Unmatched Analysis	s (Site-adjusted	l only)									
Dabigatran	38,021	12,735.60	122.34	0.33	36	2.83	0.95	-0.74	-0.08	0.78 ( 0.48, 1.25)	0.302
Apixaban	33,078	9,534.18	105.28	0.29	34	3.57	1.03	-0.74	-0.08	0.78 ( 0.48, 1.25)	0.302
1:1 Matched Condit	ional Analysis;	Caliper= 0.05	1								
Dabigatran	30,531	4,396.15	52.59	0.14	****	****	****	****	* * * * *	1.18 ( 0.53, 2.64)	0.683
Apixaban	30,531	4,396.15	52.59	0.14	11	2.5	0.36			1.16 ( 0.55, 2.04)	0.065
1:1 Matched Uncon	ditional Analys	is; Caliper= 0.0	05								
Dabigatran	30,531	10,198.85	122.01	0.33	28	2.75	0.92	-0.89	-0.13	0.73 ( 0.43, 1.22)	0.226
Apixaban	30,531	8,811.10	105.41	0.29	32	3.63	1.05	-0.89	-0.13	0.73 (0.43, 1.22)	0.226
HAS-BLED Score: 3											
Unmatched Analysis	s (Site-adjusted	l only)									
Dabigatran	26,875	8,280.22	112.53	0.31	37	4.47	1.38	-0.77	-0.02		0.666
Apixaban	24,997	6,675.35	97.54	0.27	35	5.24	1.4	-0.77	-0.02	0.90(0.57, 1.44)	0.000
1:1 Matched Condit	ional Analysis;	Caliper= 0.05	1								
Dabigatran	22,081	2,971.20	49.15	0.13	17	5.72	0.77	1.04	0.4.4		0.022
Apixaban	22,081	2,971.20	49.15	0.13	20	6.73	0.91	-1.01	-0.14	0.85 (0.45, 1.62)	0.622



Table 73. Effect Estimates for Risk of Intracranial Hemorrhage among Dabigatran vs. Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, by Analysis Type and HAS-BLED Score

								Incidence			
		Person	Average Person	Average Person		Incidence Rate per 1,000	Risk per	Rate Difference per 1,000	Difference in Risk per	Hazard Ratio	
	Number of	Years	Days	Years	Number of	Person-	1,000	Person-	1,000	(95% Confidence	Wald
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Years	New Users	Interval)	P-Value
1:1 Matched Uncor	nditional Analysi	is; Caliper= 0.0	05								
Dabigatran	22,081	6,800.57	112.49	0.31	28	4.12	1.27	-1.28	-0.18	0 90 / 0 49 1 22)	0.382
Apixaban	22,081	5,923.91	97.99	0.27	32	5.4	1.45	-1.20	-0.18	0.80 ( 0.48, 1.33)	0.562
HAS-BLED Score: 4-	÷										
Unmatched Analysi	is (Site-adjusted	only)									
Dabigatran	11,878	3,408.34	104.81	0.29	****	****	****	2 22	0.64		0.000
Apixaban	12,357	2,966.03	87.67	0.24	****	****	****	-3.22	-0.61	0.50 (0.24, 1.05)	0.068
1:1 Matched Condi	tional Analysis;	Caliper= 0.05	1								
Dabigatran	9,997	1,222.69	44.67	0.12	****	****	****	4.04	0.6	0 45 ( 0 46 4 24)	0 1 1 1
Apixaban	9,997	1,222.69	44.67	0.12	****	****	****	-4.91	-0.6	0.45 ( 0.16, 1.31)	0.144
1:1 Matched Uncor	nditional Analysi	s; Caliper= 0.0	05								
Dabigatran	9,997	2,859.68	104.48	0.29	****	****	****	2 4 2	0.0	0.57/0.26 1.22	0 1 5 4
Apixaban	9,997	2,438.17	89.08	0.24	****	****	****	-3.13	-0.6	0.57 (0.26, 1.23)	0.154

<sup>1</sup>Conditional analysis includes informative events and person-time.

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



Figure 1a. Histogram Depicting Propensity Score Distributions of Rivaroxaban and Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching





Figure 1b. Histogram Depicting Propensity Score Distributions of Rivaroxaban and Dabigatran Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, After Matching





Figure 2a. Histogram Depicting Propensity Score Distributions of Rivaroxaban and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching





Figure 2b. Histogram Depicting Propensity Score Distributions of Rivaroxaban and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, After Matching





Figure 3a. Histogram Depicting Propensity Score Distributions of Dabigatran and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Before Matching





Figure 3b. Histogram Depicting Propensity Score Distributions of Dabigatran and Apixaban Users in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, After Matching





Figure 4a. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 4b. Kaplan Meier Survival Curves of Informative Events and Follow-up Time for for Rivaroxaban and Dabigatran and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 4c. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 4d. Kaplan Meier Survival Curves of Informative Events and Follow-up Time for for Rivaroxaban and Apixaban and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 4e. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 4f. Kaplan Meier Survival Curves of Informative Events and Follow-up Time for for Dabigatran and Apixaban and Risk of Thromboembolic Stroke, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 5a. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 5b. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 5c. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 5d. Kaplan Meier Survival Curves of Events and Follow-up Time for Apixaban and Dabigatran and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 5e. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 5f. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Dabigatran and Risk of Major Extracranial Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 6a. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 6b. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 6c. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 6d. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 6e. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 6f. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of Gastrointestinal Bleeding, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 7a. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 7b. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Dabigatran and Risk of Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





Figure 7c. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 7d. Kaplan Meier Survival Curves of Events and Follow-up Time for Rivaroxaban and Apixaban and Risk of Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort




Figure 7e. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Unconditional Matched Cohort





Figure 7f. Kaplan Meier Survival Curves of Events and Follow-up Time for Dabigatran and Apixaban and Risk of Intracranial Hemorrhage, in the Sentinel Distributed Database (SDD) between October 19, 2010 to September 30, 2015, Conditional Matched Cohort





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

Data Partner (Masked)	Start Date	End Date
DP01	01/01/2010	09/30/2015

<sup>1</sup>The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month.



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

Generic Name	Brand Name	
	Apixaban	
apixaban	Eliquis	
	Dabigatran	
dabigatran etexilate mesylate	Pradaxa	
	Rivaroxaban	
rivaroxaban	Xarelto	

cder\_mpl2p\_wp017



Code	Description	Code Type	Code Category
	Ischemic Stroke		
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	ICD-9-CM	Diagnosis
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	ICD-9-CM	Diagnosis
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM	Diagnosis
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	ICD-9-CM	Diagnosis
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis
434.01	Cerebral thrombosis with cerebral infarction	ICD-9-CM	Diagnosis
434.11	Cerebral embolism with cerebral infarction	ICD-9-CM	Diagnosis
434.91	Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM	Diagnosis
436	Acute, but ill-defined, cerebrovascular disease	ICD-9-CM	Diagnosis
	Intracranial Hemorrhage		
430	Subarachnoid hemorrhage	ICD-9-CM	Diagnosis
431	Intracerebral hemorrhage	ICD-9-CM	Diagnosis
432	Other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
432.0	Nontraumatic extradural hemorrhage	ICD-9-CM	Diagnosis
432.1	Subdural hemorrhage	ICD-9-CM	Diagnosis
432.9	Unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
852.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	ICD-9-CM	Diagnosis
852.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosis
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosis
852.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM	Diagnosis
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
352.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosis
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM	Diagnosis
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosis
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosis
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
852.23	Subdural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
	moderate (1-24 hours) loss of consciousness		-0
852.24	Subdural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
852.25	Subdural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level		
852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosis
852.4	Extradural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM	Diagnosis
852.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosis
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosis
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM	Diagnosis
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosis
853.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound	ICD-9-CM	Diagnosis
853.00	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosis
853.01	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosis
853.02	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM	Diagnosis
853.03	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
853.05	Other and unspecified intracranial hemorrhage following injury. Without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
853.06	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
853.09	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosis
	Gastrointestinal Bleeding - List 1		
455.2	Internal hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.5	External hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.8	Unspecified hemorrhoids with other complication	ICD-9-CM	Diagnosis
456.0	Esophageal varices with bleeding	ICD-9-CM	Diagnosis
456.20	Esophageal varices with bleeding in diseases classified elsewhere	ICD-9-CM	Diagnosis
459.0	Unspecified hemorrhage	ICD-9-CM	Diagnosis
530.7	Gastroesophageal laceration-hemorrhage syndrome	ICD-9-CM	Diagnosis
530.82	Esophageal hemorrhage	ICD-9-CM	Diagnosis
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
532.01	Acute duodenal ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
535.01	Acute gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.11	Atrophic gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.21	Gastric mucosal hypertrophy with hemorrhage	ICD-9-CM	Diagnosis
535.31	Alcoholic gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.41	Other specified gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	ICD-9-CM	Diagnosis
535.61	Duodenitis with hemorrhage	ICD-9-CM	Diagnosis
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	ICD-9-CM	Diagnosis
562.02	Diverticulosis of small intestine with hemorrhage	ICD-9-CM	Diagnosis
562.02	Diverticulitis of small intestine with hemorrhage	ICD-9-CM	Diagnosis
562.12	Diverticulosis of colon with hemorrhage	ICD-9-CM	Diagnosis
562.12	Diverticulitis of colon with hemorrhage	ICD-9-CM	Diagnosis
568.81	Hemoperitoneum (nontraumatic)	ICD-9-CM	-
569.3		ICD-9-CM	Diagnosis
	Hemorrhage of rectum and anus		Diagnosis
569.85	Angiodysplasia of intestine with hemorrhage	ICD-9-CM	Diagnosis
578.0	Hematemesis	ICD-9-CM	Diagnosis
578.1	Blood in stool	ICD-9-CM	Diagnosis
578.9	Hemorrhage of gastrointestinal tract, unspecified Gastrointestinal Bleeding - List 2	ICD-9-CM	Diagnosis
455.0	Internal hemorrhoids without mention of complication	ICD-9-CM	Diagnosis
455.1	Internal thrombosed hemorrhoids	ICD-9-CM	Diagnosis
455.3	External hemorrhoids without mention of complication	ICD-9-CM	Diagnosis
455.4 455.4	External thrombosed hemorrhoids	ICD-9-CM	Diagnosis
455.6	Unspecified hemorrhoids without mention of complication	ICD-9-CM	-
	Unspecified thrombosed hemorrhoids		Diagnosis
455.7	-	ICD-9-CM	Diagnosis
531.1	Acute gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.5	Chronic or unspecified gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.9	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.1	Acute duodenal ulcer with perforation	ICD-9-CM	Diagnosis
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.5	Chronic or unspecified duodenal ulcer with perforation	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM	Diagnosis
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.9	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
535.00	Acute gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.10	Atrophic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	ICD-9-CM	Diagnosis
535.30	Alcoholic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.40	Other specified gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.50	Unspecified gastritis and gastroduodenitis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.60	Duodenitis without mention of hemorrhage	ICD-9-CM	Diagnosis
562.00	Diverticulosis of small intestine (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.01	Diverticulitis of small intestine (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.10	Diverticulosis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.11	Diverticulitis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
530.1	Esophagitis	ICD-9-CM	Diagnosis
	Major Extracranial Bleeding - List 1		
423.0	Hemopericardium	ICD-9-CM	Diagnosis
455.2	Internal hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.5	External hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.8	Unspecified hemorrhoids with other complication	ICD-9-CM	Diagnosis
456.0	Esophageal varices with bleeding	ICD-9-CM	Diagnosis
456.20	Esophageal varices with bleeding in diseases classified elsewhere	ICD-9-CM	Diagnosis
459.0	Unspecified hemorrhage	ICD-9-CM	Diagnosis
530.7	Gastroesophageal laceration-hemorrhage syndrome	ICD-9-CM	Diagnosis
530.82	Esophageal hemorrhage	ICD-9-CM	Diagnosis
531.0	Acute gastric ulcer with hemorrhage	ICD-9-CM	Diagnosis
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.2	Acute gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
531.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-9-CM	Diagnosis
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis



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



<b>~</b> .		• · -	Code
Code	Description	Code Type	Category
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
535.01	Acute gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.11	Atrophic gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.21	Gastric mucosal hypertrophy with hemorrhage	ICD-9-CM	Diagnosis
535.31	Alcoholic gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.41	Other specified gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	ICD-9-CM	Diagnosis
535.61	Duodenitis with hemorrhage	ICD-9-CM	Diagnosis
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	ICD-9-CM	Diagnosis
562.02	Diverticulosis of small intestine with hemorrhage	ICD-9-CM	Diagnosis
562.03	Diverticulitis of small intestine with hemorrhage	ICD-9-CM	Diagnosis
562.12	Diverticulosis of colon with hemorrhage	ICD-9-CM	Diagnosis
562.13	Diverticulitis of colon with hemorrhage	ICD-9-CM	Diagnosis
568.81	Hemoperitoneum (nontraumatic)	ICD-9-CM	Diagnosis
569.3	Hemorrhage of rectum and anus	ICD-9-CM	Diagnosis
569.85	Angiodysplasia of intestine with hemorrhage	ICD-9-CM	Diagnosis
78.0	Hematemesis	ICD-9-CM	Diagnosis
578.1	Blood in stool	ICD-9-CM	Diagnosis
578.9	Hemorrhage of gastrointestinal tract, unspecified	ICD-9-CM	Diagnosis
593.81	Vascular disorders of kidney	ICD-9-CM	Diagnosis
599.7	Hematuria	ICD-9-CM	Diagnosis
523.8	Other specified noninflammatory disorder of vagina	ICD-9-CM	Diagnosis
526.2	Excessive or frequent menstruation	ICD-9-CM	Diagnosis
526.6	Metrorrhagia	ICD-9-CM	Diagnosis
719.1	Hemarthrosis	ICD-9-CM	Diagnosis
719.10	Hemarthrosis, site unspecified	ICD-9-CM	Diagnosis
719.11	Hemarthrosis, shoulder region	ICD-9-CM	Diagnosis
719.12	Hemarthrosis, upper arm	ICD-9-CM	Diagnosis
719.13	Hemarthrosis, forearm	ICD-9-CM	Diagnosis
719.14	Hemarthrosis, hand	ICD-9-CM	Diagnosis
719.15	Hemarthrosis, pelvic region and thigh	ICD-9-CM	Diagnosis
719.16	Hemarthrosis, lower leg	ICD-9-CM	Diagnosis
719.17	Hemarthrosis, ankle and foot	ICD-9-CM	Diagnosis
719.18	Hemarthrosis, other specified site	ICD-9-CM	Diagnosis
719.19	Hemarthrosis, multiple sites	ICD-9-CM	Diagnosis
784.7	Epistaxis	ICD-9-CM	Diagnosis
784.8	Hemorrhage from throat	ICD-9-CM	Diagnosis
786.3	Hemoptysis	ICD-9-CM	Diagnosis
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
	Major Extracranial Bleeding - List 2		2.00110010
280.0	Iron deficiency anemia secondary to blood loss (chronic)	ICD-9-CM	Diagnosis
-			0

285.1 Acute posthemorrhagic anemia



			Code
Code	Description	Code Type	Category
285.9	Unspecified anemia	ICD-9-CM	Diagnosis
455.0	Internal hemorrhoids without mention of complication	ICD-9-CM	Diagnosis
455.1	Internal thrombosed hemorrhoids	ICD-9-CM	Diagnosis
455.2	Internal hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.3	External hemorrhoids without mention of complication	ICD-9-CM	Diagnosis
455.4	External thrombosed hemorrhoids	ICD-9-CM	Diagnosis
455.5	External hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.6	Unspecified hemorrhoids without mention of complication	ICD-9-CM	Diagnosis
455.7	Unspecified thrombosed hemorrhoids	ICD-9-CM	Diagnosis
455.8	Unspecified hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.9	Residual hemorrhoidal skin tags	ICD-9-CM	Diagnosis
530.1	Esophagitis	ICD-9-CM	Diagnosis
531.1	Acute gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.5	Chronic or unspecified gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.9	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosis
	perforation		
532.1	Acute duodenal ulcer with perforation	ICD-9-CM	Diagnosis
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.5	Chronic or unspecified duodenal ulcer with perforation	ICD-9-CM	Diagnosis
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosis
	perforation		•
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM	Diagnosis
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of	ICD-9-CM	Diagnosis
	hemorrhage or perforation		0
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.9	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosis
551.5	perforation		Diagnosis
535.00	Acute gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.10	Atrophic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	ICD-9-CM	Diagnosis
535.30	Alcoholic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.40	Other specified gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.50	Unspecified gastritis and gastroduodenitis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.60	Duodenitis without mention of hemorrhage	ICD-9-CM	Diagnosis
562.00	Diverticulosis of small intestine (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.01	Diverticulitis of small intestine (without mention of hemorrhage)	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
562.10	Diverticulosis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.11	Diverticulitis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
790.92	Abnormal coagulation profile	ICD-9-CM	Diagnosis
	Major Extracranial Bleeding - List 3		
62000	Elevation of depressed skull fracture; simple, extradural	CPT-4	Procedure
62005	Elevation of depressed skull fracture; compound or comminuted, extradural	CPT-4	Procedure
62010	Elevation of depressed skull fracture; with repair of dura and/or debridement of brain	CPT-4	Procedure
800	Fracture of vault of skull	ICD-9-CM	Diagnosis
800.0	Closed fracture of vault of skull without mention of intracranial injury	ICD-9-CM	Diagnosis
800.00	Closed fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.01	Closed fracture of vault of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
800.02	Closed fracture of vault of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.03	Closed fracture of vault of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
800.06	Closed fracture of vault of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.09	Closed fracture of vault of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
800.1	Closed fracture of vault of skull with cerebral laceration and contusion	ICD-9-CM	Diagnosis
800.10	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.11	Closed fracture of vault of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
800.12	Closed fracture of vault of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.13	Closed fracture of vault of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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 level	ICD-9-CM	Diagnosis
800.16	Closed fracture of vault of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.19	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
800.2	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
800.20	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
800.21	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
800.22	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.23	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
800.24	Closed 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	ICD-9-CM	Diagnosis
800.25	Closed 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	ICD-9-CM	Diagnosis
800.26	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.29	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
800.3	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
800.30	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.31	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
800.32	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.33	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
800.34	Closed 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	ICD-9-CM	Diagnosis
800.35	Closed 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	ICD-9-CM	Diagnosis
800.36	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.39	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
800.4	Closed fracture of vault of skull with intercranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
800.40	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.41	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis
800.42	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.43	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
800.46	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.49	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM	Diagnosis
800.5	Open fracture of vault of skull without mention of intracranial injury	ICD-9-CM	Diagnosis
800.50	Open fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.51	Open fracture of vault of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
800.52	Open fracture of vault of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.53	Open fracture of vault of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
800.56	Open fracture of vault of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.59	Open fracture of vault of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
800.6	Open fracture of vault of skull with cerebral laceration and contusion	ICD-9-CM	Diagnosis
800.60	Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.61	Open fracture of vault of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
800.62	Open fracture of vault of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.63	Open fracture of vault of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
800.66	Open fracture of vault of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.69	Open fracture of vault of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
800.7	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
800.70	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
000.70	unspecified state of consciousness		Diagnosis
800.71	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
800.72	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.73	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
800.76	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.79	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
800.8	Open fracture of vault of skull with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
800.80	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.81	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
800.82	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
800.83	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
800.86	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.89	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
800.9	Open fracture of vault of skull with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
800.90	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.91	Open fracture of vault of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis
800.92	Open fracture of vault of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
800.93	Open fracture of vault of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
	moderate (1-24 hours) loss of consciousness		0
800.94	Open fracture of vault of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		-
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	ICD-9-CM	Diagnosis
800.96	Open fracture of vault of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
800.99	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM	Diagnosis
801	Fracture of base of skull	ICD-9-CM	Diagnosis
801.0	Closed fracture of base of skull without mention of intracranial injury	ICD-9-CM	Diagnosis
801.00	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.01	Closed fracture of base of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
801.02	Closed fracture of base of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.03	Closed fracture of base of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.06	Closed fracture of base of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.09	Closed fracture of base of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
801.1	Closed fracture of base of skull with cerebral laceration and contusion	ICD-9-CM	Diagnosis
801.10	Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.11	Closed fracture of base of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
801.12	Closed fracture of base of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.13	Closed fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.16	Closed fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
801.19	Closed fracture of base of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
801.2	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
801.2 801.20	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
001.20	unspecified state of consciousness		Diagnosis
801.21	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
801.22	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.23	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.26	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.29	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
801.3	Closed fracture of base of skull with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
801.30	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.31	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
801.32	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.33	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.36	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.39	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
801.4	Closed fracture of base of skull with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
801.40	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.41	Closed fracture of base of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
801.42	Closed fracture of base of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.43	Closed fracture of base of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.46	Closed fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.49	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM	Diagnosis
801.5	Open fracture of base of skull without mention of intracranial injury	ICD-9-CM	Diagnosis
801.50	Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.51	Open fracture of base of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
801.52	Open fracture of base of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.53	Open fracture of base of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.56	Open fracture of base of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.59	Open fracture of base of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
801.6	Open fracture of base of skull with cerebral laceration and contusion	ICD-9-CM	Diagnosis
801.60	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.61	Open fracture of base of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
801.62	Open fracture of base of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.63	Open fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
801.66	Open fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.69	Open fracture of base of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
801.7	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
801.70	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.71	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
801.72	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.73	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
801.76	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.79	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
801.8	Open fracture of base of skull with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
801.80	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
801.81	Open fracture of base of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
801.82	Open fracture of base of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
801.83	Open fracture of base of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
801.84	Open 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	ICD-9-CM	Diagnosis
801.85	Open 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	ICD-9-CM	Diagnosis
801.86	Open fracture of base of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.89	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
801.9	Open fracture of base of skull with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
801.90	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis



code Description Code Type Category   801.91 Open fracture of base of skull with intracranial injury of other and unspecified nature, nor (less than one hour) loss of consciousness ICD-9-CM Diagnosis   801.92 Open fracture of base of skull with intracranial injury of other and unspecified nature, income hour) loss of consciousness ICD-9-CM Diagnosis   801.93 Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness ICD-9-CM Diagnosis   801.94 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 ICD-9-CM Diagnosis   801.95 Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousnes, without return to pre-existing conscious level ICD-9-CM Diagnosis   801.96 Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousnes ICD-9-CM Diagnosis   801.96 Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousnes ICD-9-CM Diagnosis   802.0 Nasat bones, cosed frac		•		Code
Ioss of consciousnessIoss of consciousnessIOC-9-CMDiagnosis801.92Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousnessICD-9-CMDiagnosis801.93Open 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 levelICD-9-CMDiagnosis801.94Open 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 levelICD-9-CMDiagnosis801.95Open 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 levelICD-9-CMDiagnosis801.96Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness of unspecified durationICD-9-CMDiagnosis801.99Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousnessICD-9-CMDiagnosis802.0Nasal bones, closed fractureICD-9-CMDiagnosisDiagnosis802.1Nasal bones, closed fractureICD-9-CMDiagnosis802.2Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.2Closed fracture of ondylar process of mandibleICD-9-CMDiagnosis802.2Closed fracture of unspecified part of ramus of mandible <th>Code</th> <th>Description</th> <th>Code Type</th> <th>Category</th>	Code	Description	Code Type	Category
801.92 Open fracture of base of skull with intracranial injury of other and unspecified nature, incernational injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness ICD-9-CM Diagnosis   801.93 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 ICD-9-CM Diagnosis   801.94 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 ICD-9-CM Diagnosis   801.96 Open fracture of base of skull with intracranial injury of other and unspecified nature, los of consciousness of unspecified duration ICD-9-CM Diagnosis   801.99 Open fracture of base of skull with intracranial injury of other and unspecified nature, los of consciousness of unspecified duration ICD-9-CM Diagnosis   802.0 Nasal bones, closed fracture ICD-9-CM Diagnosis Diagnosis   802.1 Nasal bones, closed fracture ICD-9-CM Diagnosis   802.2 Mandible, closed fracture ICD-9-CM Diagnosis   802.2 Closed fracture of unspecified site of mandible ICD-9-CM Diagnosis   802.21 <	801.91		ICD-9-CM	Diagnosis
(less than one hour) loss of consciousnessICD-9-CMDiagnosis801.93Open fracture of base of skull with intracranal injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious levelICD-9-CMDiagnosis801.94Open fracture of base of skull with intracranal injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious levelICD-9-CMDiagnosis801.95Open fracture of base of skull with intracranal injury of other and unspecified nature, on scious levelICD-9-CMDiagnosis801.96Open fracture of base of skull with intracranal injury of other and unspecified nature, unspecified concusionICD-9-CMDiagnosis801.97Open fracture of base of skull with intracranal injury of other and unspecified nature, unspecified concusionICD-9-CMDiagnosis802.07Nasal bones, closed fractureICD-9-CMDiagnosis802.10Nasal bones, open fractureICD-9-CMDiagnosis802.21Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.22Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.23Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.26Closed fracture of unspecified site of mandibleICD-9-CM <td></td> <td></td> <td></td> <td></td>				
801.93Open fracture of base of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousnessICD-9-CMDiagnosis801.94Open 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 levelICD-9-CMDiagnosis801.95Open fracture of base of skull with intracranial injury of other and unspecified nature, porlonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious levelICD-9-CMDiagnosis801.96Open fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified durationICD-9-CMDiagnosis802.9Open fracture of base of skull with intracranial injury of other and unspecified nature, usspecified concursionICD-9-CMDiagnosis802.0Nasal bones, closed fractureICD-9-CMDiagnosis802.1Nasal bones, pone fractureICD-9-CMDiagnosis802.2Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.2Closed fracture of unspecified and or annalibleICD-9-CMDiagnosis802.2Closed fracture of unspecified part of namos of mandibleICD-9-CMDiagnosis802.2Closed fracture of unspecified part of namos fmandibleICD-9-CMDiagnosis802.2Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.2Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.2 <td>801.92</td> <td></td> <td>ICD-9-CM</td> <td>Diagnosis</td>	801.92		ICD-9-CM	Diagnosis
moderate (1-24 hours) loss of consciousnessICD-9-CMDiagnosis801.94Open 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 levelICD-9-CMDiagnosis801.95Open 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 levelICD-9-CMDiagnosis801.96Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussionICD-9-CMDiagnosis802.07Practure of base of skull with intracranial injury of other and unspecified nature, unspecified concussionICD-9-CMDiagnosis802.07Nasal bones, closed fractureICD-9-CMDiagnosis802.1Nasal bones, closed fractureICD-9-CMDiagnosis802.2Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.2Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.2Closed fracture of ourspecified part of ramus of mandibleICD-9-CMDiagnosis802.2Closed fracture of angle of jawICD-9-CMDiagnosis802.2Closed fracture of angle of jawICD-9-CMDiagnosis802.2Closed fracture of angle of jawICD-9-CMDiagnosis802.2Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.2Closed fracture of angle of jawICD-9-CMDiagnosis <td>004.00</td> <td></td> <td></td> <td><b>.</b> .</td>	004.00			<b>.</b> .
prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious levelICD-9-CMDiagnosis801.95Open 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 levelICD-9-CMDiagnosis801.96Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concusionICD-9-CMDiagnosis801.97Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concusionICD-9-CMDiagnosis802.07Nasal bones, closed fractureICD-9-CMDiagnosis802.18Nasal bones, closed fractureICD-9-CMDiagnosis802.20Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.23Closed fracture of onspecified part of ramus of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of onspecified part of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of onspecified part of body of mandibleICD-9-CMDiagnosis <tr<< td=""><td>801.93</td><td></td><td>ICD-9-CM</td><td>Diagnosis</td></tr<<>	801.93		ICD-9-CM	Diagnosis
prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious levelICD-9-CMDiagnosis801.96Open fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified durationICD-9-CMDiagnosis801.99Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussionICD-9-CMDiagnosis802Fracture of face bonesICD-9-CMDiagnosis802.1Nasal bones, closed fractureICD-9-CMDiagnosis802.20Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.22Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.23Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of angle of jawICD-9-CMDiagnosis802.27Closed fracture of angle of part of ramus of mandibleICD-9-CMDiagnosis802.28Closed fracture of angle of part of ramus of mandibleICD-9-CMDiagnosis802.29Closed fracture of ontpare of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of outparectified site of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecif	801.94	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious	ICD-9-CM	Diagnosis
of consciousness of unspecified duration801.99Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussionICD-9-CMDiagnosis802Fracture of face bonesICD-9-CMDiagnosis802.0Nasal bones, closed fractureICD-9-CMDiagnosis802.1Nasal bones, open fractureICD-9-CMDiagnosis802.2Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of conolid process of mandibleICD-9-CMDiagnosis802.23Closed fracture of onspecified part of ramus of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of angle of jawICD-9-CMDiagnosis802.27Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.26Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of onultiple sites of mandibleICD-9-CMDiagnosis802.28Closed fracture of onultiple sites of mandibleICD-9-CMDiagnosis802.29Closed fracture of angle of bady of mandibleICD-9-CMDiagnosis802.29Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis<	801.95	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing	ICD-9-CM	Diagnosis
801.99Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified concussionICD-9-CMDiagnosis802Fracture of face bonesICD-9-CMDiagnosis802.00Nasal bones, closed fractureICD-9-CMDiagnosis802.11Nasal bones, open fractureICD-9-CMDiagnosis802.22Mandible, closed fractureICD-9-CMDiagnosis802.23Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.24Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.25Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.26Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.27Closed fracture of alwel of ipawICD-9-CMDiagnosis802.28Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of alwelar border of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of nultiple sites of mandibleICD-9-CMDiagnosis802.29Closed fracture of onspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of alwelar process of mandibleICD-9-CMDiagnosis802.29Closed fracture of angle process of mandibleICD-9-CMDiagnosis802.30Open fracture of cononid process of mandibleICD-9-CMDiagn	801.96		ICD-9-CM	Diagnosis
802Fracture of face bonesICD-9-CMDiagnosis802.0Nasal bones, closed fractureICD-9-CMDiagnosis802.1Nasal bones, open fractureICD-9-CMDiagnosis802.2Mandible, closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.20Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of coronoid process of mandibleICD-9-CMDiagnosis802.23Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.24Closed fracture of angle of jawICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of angle of jawICD-9-CMDiagnosis802.27Closed fracture of any physis of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of nultiple sites of mandibleICD-9-CMDiagnosis802.29Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.31Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.32Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.35Open fracture of condylar proces	801.99	Open fracture of base of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
802.0Nasal bones, closed fractureICD-9-CMDiagnosis802.1Nasal bones, open fractureICD-9-CMDiagnosis802.2Mandible, closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.20Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of coronoid process of mandibleICD-9-CMDiagnosis802.23Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.24Closed fracture of angle of jawICD-9-CMDiagnosis802.25Closed fracture of alge of jawICD-9-CMDiagnosis802.26Closed fracture of angle of jawICD-9-CMDiagnosis802.27Closed fracture of anyeloid part of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of anyeloid part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of onnoligh process of mandibleICD-9-CMDiagnosis802.30Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of supporting process of mandibleICD-9-CMDiagnosis802.33Open fracture of supporting process of mandibleICD-9-CMDiagnosis802.34 <td>802</td> <td></td> <td>ICD-9-CM</td> <td>Diagnosis</td>	802		ICD-9-CM	Diagnosis
802.2Mandible, closed fractureICD-9-CMDiagnosis802.20Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.23Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of alvelar border of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.35Open fracture of ondylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of ondylar process of mandibleICD-9	802.0	Nasal bones, closed fracture	ICD-9-CM	-
802.20Closed fracture of unspecified site of mandibleICD-9-CMDiagnosis802.21Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.23Closed fracture of oronoid process of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of algle of jawICD-9-CMDiagnosis802.26Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.32Open fracture of ounspecified site of mandibleICD-9-CMDiagnosis802.33Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture o	802.1	Nasal bones, open fracture	ICD-9-CM	Diagnosis
802.21Closed fracture of condylar process of mandibleICD-9-CMDiagnosis802.22Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.23Closed fracture of oronoid process of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of unltiple sites of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.32Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.36Open fracture of	802.2	Mandible, closed fracture	ICD-9-CM	Diagnosis
802.22Closed fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.23Closed fracture of coronoid process of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.30Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.31Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.32Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.33Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.34Open fracture of angle of jawICD-9-CMDiagnosis802.35Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.36Open fracture of other and unspecified part of body of mandible <td< td=""><td>802.20</td><td>Closed fracture of unspecified site of mandible</td><td>ICD-9-CM</td><td>Diagnosis</td></td<>	802.20	Closed fracture of unspecified site of mandible	ICD-9-CM	Diagnosis
802.23Closed fracture of coronoid process of mandibleICD-9-CMDiagnosis802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of osubcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of osubcondylar process of mandibleICD-9-CMDiagnosis802.34Open fracture of onspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of angle of jawICD-9-CMDiagnosis802.37Open fracture of angle of jawICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.37Open fracture of angle of jawICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDia	802.21	Closed fracture of condylar process of mandible	ICD-9-CM	Diagnosis
802.24Closed fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of unltiple sites of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.33Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.36Open fracture of unspecified part of body of mandibleICD-9-CMDiagnosis802.37Open fracture of angle of jawICD-9-CMDiagnosis802.38Open fracture of angle of jawICD-9-CMDiagnosis802.37Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspe	802.22	Closed fracture of subcondylar process of mandible	ICD-9-CM	Diagnosis
802.25Closed fracture of angle of jawICD-9-CMDiagnosis802.26Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of onopid process of mandibleICD-9-CMDiagnosis802.34Open fracture of onopid process of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of angle of jawICD-9-CMDiagnosis802.37Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mand				
802.26Closed fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.27Closed fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of connoid process of mandibleICD-9-CMDiagnosis802.33Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of angle of jawICD-9-CMDiagnosis802.37Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.39Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and				-
802.27Closed fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.3Mandible, open fractureICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of angle of jawICD-9-CMDiagnosis802.37Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagn				
802.28Closed fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.29Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.3Mandible, open fractureICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.34Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.39Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis8				-
802.29Closed fracture of multiple sites of mandibleICD-9-CMDiagnosis802.3Mandible, open fractureICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.3Mandible, open fractureICD-9-CMDiagnosis802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				-
802.30Open fracture of unspecified site of mandibleICD-9-CMDiagnosis802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				-
802.31Open fracture of condylar process of mandibleICD-9-CMDiagnosis802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis		/ 1		
802.32Open fracture of subcondylar process of mandibleICD-9-CMDiagnosis802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.33Open fracture of coronoid process of mandibleICD-9-CMDiagnosis802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				-
802.34Open fracture of unspecified part of ramus of mandibleICD-9-CMDiagnosis802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.35Open fracture of angle of jawICD-9-CMDiagnosis802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				-
802.36Open fracture of symphysis of body of mandibleICD-9-CMDiagnosis802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.37Open fracture of alveolar border of body of mandibleICD-9-CMDiagnosis802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.38Open fracture of other and unspecified part of body of mandibleICD-9-CMDiagnosis802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.39Open fracture of multiple sites of mandibleICD-9-CMDiagnosis802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.4Malar and maxillary bones, closed fractureICD-9-CMDiagnosis802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
802.5Malar and maxillary bones, open fractureICD-9-CMDiagnosis802.6Orbital floor (blow-out), closed fractureICD-9-CMDiagnosis				
	802.5		ICD-9-CM	
802.7 Orbital floor (blow-out), open fracture ICD-9-CM Diagnosis	802.6	Orbital floor (blow-out), closed fracture	ICD-9-CM	Diagnosis
	802.7	Orbital floor (blow-out), open fracture	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
802.8	Other facial bones, closed fracture	ICD-9-CM	Diagnosis
802.9	Other facial bones, open fracture	ICD-9-CM	Diagnosis
803	Other and unqualified skull fractures	ICD-9-CM	Diagnosis
803.0	Other closed skull fracture without mention of intracranial injury	ICD-9-CM	Diagnosis
803.00	Other closed skull fracture without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.01	Other closed skull fracture without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
803.02	Other closed skull fracture without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.03	Other closed skull fracture without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.06	Other closed skull fracture without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.09	Other closed skull fracture without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
803.1	Other closed skull fracture with cerebral laceration and contusion	ICD-9-CM	Diagnosis
803.10	Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.11	Other closed skull fracture with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
803.12	Other closed skull fracture with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.13	Other closed skull fracture with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.16	Other closed skull fracture with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.19	Other closed skull fracture with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
803.2	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
803.20	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.21	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
803.22	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.23	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.26	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.29	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
803.3	Closed skull fracture with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
803.30	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness	ICD-9-CM	Diagnosis
803.31	Other closed skull fracture with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
803.32	Other closed skull fracture with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.33	Other closed skull fracture with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
803.34	Other closed skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
803.35	Other closed skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
803.36	Other closed skull fracture with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.39	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
803.4	Other closed skull fracture with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
803.40	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.41	Other closed skull fracture with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis
803.42	Other closed skull fracture with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.43	Other closed skull fracture with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
803.44	Other closed 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	ICD-9-CM	Diagnosis
803.45	Other closed 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	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
803.46	Other closed skull fracture with intracranial injury of other and unspecified nature, loss of	ICD-9-CM	Diagnosis
003.40	consciousness of unspecified duration		Diagnosis
803.49	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM	Diagnosis
803.5	Other open skull fracture without mention of intracranial injury	ICD-9-CM	Diagnosis
803.50	Other open skull fracture without mention of injury, state of consciousness unspecified	ICD-9-CM	Diagnosis
803.51	Other open skull fracture without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
803.52	Other open skull fracture without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.53	Other open skull fracture without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
803.54	Other open skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
803.55	Other open skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
803.56	Other open skull fracture without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.59	Other open skull fracture without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
803.6	Other open skull fracture with cerebral laceration and contusion	ICD-9-CM	Diagnosis
803.60	Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.61	Other open skull fracture with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
803.62	Other open skull fracture with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.63	Other open skull fracture with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.66	Other open skull fracture with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.69	Other open skull fracture with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
803.7	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
803.70	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.71	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
803.72	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.73	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.76	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.79	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
803.8	Other open skull fracture with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
803.80	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.81	Other open skull fracture with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
803.82	Other open skull fracture with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.83	Other open skull fracture with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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 conscious level	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.86	Other open skull fracture with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
803.89	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
803.9	Other open skull fracture with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
803.90	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
803.91	Other open skull fracture with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis
803.92	Other open skull fracture with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
803.93	Other open skull fracture with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
803.96	Other open skull fracture with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
803.99	Other open skull fracture with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
	unspecified concussion		-
804	Multiple fractures involving skull or face with other bones	ICD-9-CM	Diagnosis
804.0	Closed fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
	injury		
804.00	Closed fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.01	Closed fractures involving skull or face with other bones, without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
804.02	Closed fractures involving skull or face with other bones, without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.03	Closed fractures involving skull or face with other bones, without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.04	Closed fractures involving skull or face with other bones, without mention or intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.05	Closed fractures involving skull of face with other bones, without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.06	Closed fractures involving skull of face with other bones, without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.09	Closed fractures involving skull of face with other bones, without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
804.1	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion	ICD-9-CM	Diagnosis
804.10	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.11	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
804.12	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.13	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.14	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.15	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.16	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.19	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
804.2	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis



Codo	Description	Codo Tura	Code Category
<b>Code</b> 804.20	<b>Description</b> Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	Code Type ICD-9-CM	Category Diagnosis
004.20	extradural hemorrhage, unspecified state of consciousness	ICD-9-CIVI	Diagnosis
804.21	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
804.22	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.23	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.24	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.25	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.26	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.29	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
804.3	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
804.30	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.31	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
804.32	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.33	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.34	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	ICD-9-CM	Diagnosis
804.35	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.36	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.39	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
804.4	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
804.40	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.41	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
804.42	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.43	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.44	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.45	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.46	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.49	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM	Diagnosis
804.5	Open fractures involving skull or face with other bones, without mention of intracranial injury	ICD-9-CM	Diagnosis
804.50	Open fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.51	Open fractures involving skull or face with other bones, without mention of intracranial injury, no loss of consciousness	ICD-9-CM	Diagnosis
804.52	Open fractures involving skull or face with other bones, without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.53	Open fractures involving skull or face with other bones, without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.54	Open fractures involving skull or face with other bones, without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.55	Open fractures involving skull or face with other bones, without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.56	Open fractures involving skull or face with other bones, without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.59	Open fractures involving skull or face with other bones, without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis
804.6	Open fractures involving skull or face with other bones, with cerebral laceration and contusion	ICD-9-CM	Diagnosis
804.60	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.61	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM	Diagnosis
804.62	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.63	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
804.64	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.65	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.66	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.69	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified concussion	ICD-9-CM	Diagnosis
804.7	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
804.70	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.71	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
804.72	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
304.73	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
304.74	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis
304.75	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM	Diagnosis
804.76	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
304.79	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
804.8	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage	ICD-9-CM	Diagnosis
304.80	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.81	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis
304.82	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.83	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.84	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM	Diagnosis



Code	Description	Code Tuno	Code Category
804.85	Open fractures involving skull or face with other bones, with other and unspecified	Code Type ICD-9-CM	Diagnosis
004.05	intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level		Diagnosis
804.86	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.89	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM	Diagnosis
804.9	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature	ICD-9-CM	Diagnosis
804.90	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM	Diagnosis
804.91	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis
804.92	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
804.93	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
804.94	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre- existing conscious level	ICD-9-CM	Diagnosis
304.95	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing level	ICD-9-CM	Diagnosis
804.96	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
804.99	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM	Diagnosis
805	Fracture of vertebral column without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.0	Closed fracture of cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.00	Closed fracture of cervical vertebra, unspecified level without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.01	Closed fracture of first cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.02	Closed fracture of second cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.03	Closed fracture of third cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.04	Closed fracture of fourth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.05	Closed fracture of fifth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.06	Closed fracture of sixth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.07	Closed fracture of seventh cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.08	Closed fracture of multiple cervical vertebrae without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.1	Open fracture of cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.10	Open fracture of cervical vertebra, unspecified level without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.11	Open fracture of first cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.12	Open fracture of second cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
005.12			
805.13	Open fracture of third cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis



<b>.</b> .		<b>.</b>	Code
Code	Description	Code Type	Category
805.15	Open fracture of fifth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.16	Open fracture of sixth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.17	Open fracture of seventh cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
305.18	Open fracture of multiple cervical vertebrae without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.2	Closed fracture of dorsal (thoracic) vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.3	Open fracture of dorsal (thoracic) vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.4	Closed fracture of lumbar vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.5	Open fracture of lumbar vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.6	Closed fracture of sacrum and coccyx without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.7	Open fracture of sacrum and coccyx without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.8	Closed fracture of unspecified part of vertebral column without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.9	Open fracture of unspecified part of vertebral column without mention of spinal cord injury	ICD-9-CM	Diagnosis
806	Fracture of vertebral column with spinal cord injury	ICD-9-CM	Diagnosis
806.0	Closed fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.0	Closed fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.0	Closed fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.00	Closed fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
306.00	Closed fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.00	Closed fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
306.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
306.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
306.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
306.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
306.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
306.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
306.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
306.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
306.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
306.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
306.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
306.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
306.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
306.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
306.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
306.06	Closed fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
306.06	Closed fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
306.06	Closed fracture of C5-C7 level with complete lesion of cord		
306.06 306.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
	-	ICD-9-CM	Diagnosis
306.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
306.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
306.08	Closed fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis
306.08	Closed fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis
806.08	Closed fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis



	•		Code
Code	Description	Code Type	Category
806.09	Closed fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.09	Closed fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.09	Closed fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.1	Open fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.1	Open fracture of cervical vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.10	Open fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.10	Open fracture of C1-C4 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.11	Open fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.11	Open fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.12	Open fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.12	Open fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.13	Open fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.13	Open fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.14	Open fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.14	Open fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.15	Open fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.15	Open fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.16	Open fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.16	Open fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.17	Open fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.17	Open fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.18	Open fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis
806.18	Open fracture of C5-C7 level with central cord syndrome	ICD-9-CM	Diagnosis
806.19	Open fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.19	Open fracture of C5-C7 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.2	Closed fracture of dorsal (thoracic) vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.2	Closed fracture of dorsal (thoracic) vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.2	Closed fracture of dorsal (thoracic) vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.20	Closed fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.20	Closed fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.20	Closed fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.21	Closed fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.21	Closed fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.21	Closed fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.22	Closed fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.22	Closed fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.22	Closed fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.23	Closed fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.23	Closed fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.23	Closed fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.24	Closed fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.24	Closed fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.24	Closed fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.25	Closed fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.25	Closed fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
			-



CodeDescriptionCode TypeCategory806.25Closed fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.26Closed fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.26Closed fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertbar with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertbar with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-16 level with omplete lesion of cordICD-9-CMDiagnosis806.30Open fracture of T1-16 level with omplete lesion of cordICD-9-CMDiagnosis806.31Open fracture of T1-16 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fr				Code
80626Closed fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis80626Closed fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis80627Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis80627Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis80628Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis80628Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis80628Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis80629Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis80629Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis80630Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis80631Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis80633Open fracture of orsal vertebra with spinal cord injuryICD-9-CMDiagnosis80633Open fracture of 11-T6 level with complete lesion of cordICD-9-CMDiagnosis80633Open fracture of 11-T6 level with netroir cord syndromeICD-9-CMDiagnosis80633Open fracture of 11-T6 level with complete lesion of cordICD-9-CMDiagnosis80633Open fracture of 11-T6 level with netroir cord syndromeICD-9-CMDiagnosis80633 <td< th=""><th>Code</th><th>Description</th><th>Code Type</th><th>Category</th></td<>	Code	Description	Code Type	Category
806.26Closed fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.26Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.20Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis <t< td=""><td>806.25</td><td>Closed fracture of T7-T12 level with unspecified spinal cord injury</td><td>ICD-9-CM</td><td>Diagnosis</td></t<>	806.25	Closed fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.26Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CM <td>806.26</td> <td>Closed fracture of T7-T12 level with complete lesion of cord</td> <td>ICD-9-CM</td> <td>Diagnosis</td>	806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of 11-T6 level with onspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.34	806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.27Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.33Open fracture of T1-76 level with anterior cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-76 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-16 level with central cord syndromeICD-9-CM	806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.27Closed fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.33Open fracture of T1-76 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-76 level with anterior cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.36Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.37Open fracture of T1-76 level with central cord syndromeICD-9-CMDiagnosis806.38Open fracture of T1-712 level with unspecified spinal cord injuryIC	806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of 11-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of 11-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of 11-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of 11-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of 11-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of 11-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of 11-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of 11-T6 level with central cord syndromeICD-9-CMDiagnosis806.35Open fracture of 11-T6 level with anterior cord syndromeICD-9-CMDiagnosis <td>806.27</td> <td>Closed fracture of T7-T12 level with anterior cord syndrome</td> <td>ICD-9-CM</td> <td>Diagnosis</td>	806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T6 level with other specified spinal cord	806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.28Closed fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T6 level with other specified spinal co	806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with onter specified spinal co	806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injury	806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.29Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.3Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of 11-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with nomplete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis <td>806.29</td> <td>Closed fracture of T7-T12 level with other specified spinal cord injury</td> <td>ICD-9-CM</td> <td>Diagnosis</td>	806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.3Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.3Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39O	806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.3Open fracture of dorsal vertebra with spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39	806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis <tr<< td=""><td>806.3</td><td>Open fracture of dorsal vertebra with spinal cord injury</td><td>ICD-9-CM</td><td>Diagnosis</td></tr<<>	806.3	Open fracture of dorsal vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.30Open fracture of T1-T6 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis80	806.3	Open fracture of dorsal vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.31Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39 </td <td>806.30</td> <td>Open fracture of T1-T6 level with unspecified spinal cord injury</td> <td>ICD-9-CM</td> <td>Diagnosis</td>	806.30	Open fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.31Open fracture of T1-T6 level with complete lesion of cordICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.	806.30	Open fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.32Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.30Open fracture of T7-T12 level with central cord injuryICD-9-CMDiagnosis <t< td=""><td>806.31</td><td>Open fracture of T1-T6 level with complete lesion of cord</td><td>ICD-9-CM</td><td>Diagnosis</td></t<>	806.31	Open fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.32Open fracture of T1-T6 level with anterior cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T1-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-	806.31	Open fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.33Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of IT7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-	806.32	Open fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.33Open fracture of T1-T6 level with central cord syndromeICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of Imbar spine with spinal cor	806.32	Open fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of Iumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of Iumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CM <t< td=""><td>806.33</td><td>Open fracture of T1-T6 level with central cord syndrome</td><td>ICD-9-CM</td><td>Diagnosis</td></t<>	806.33	Open fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.34Open fracture of T1-T6 level with other specified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of Imbar spine with spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-	806.33	Open fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of Iumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis <td< td=""><td>806.34</td><td>Open fracture of T1-T6 level with other specified spinal cord injury</td><td>ICD-9-CM</td><td>Diagnosis</td></td<>	806.34	Open fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.35Open fracture of T7-T12 level with unspecified spinal cord injuryICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.40Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.41Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord inj	806.34	Open fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.36Open fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of Iumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagn	806.35	Open fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.36Deen fracture of T7-T12 level with complete lesion of cordICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of 17-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of Iumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnos	806.35	Open fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.40Closed fracture of T7-T12 level with spinal cord injuryICD-9-CMDiagnosis806.51Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.52Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.63Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.64Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CM	806.36	Open fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.37Open fracture of T7-T12 level with anterior cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesion<	806.36	Open fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of 17-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.37	Open fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.38Open fracture of T7-T12 level with central cord syndromeICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of Iumbar spine with spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.37	Open fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.38	Open fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.39Open fracture of T7-T12 level with other specified spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.38	Open fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.39	Open fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.4Closed fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.39	Open fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.4	Closed fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.5Open fracture of lumbar spine with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.4	Closed fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.5	Open fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.6Closed fracture of sacrum and coccyx with spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.5	Open fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.6	Closed fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.60Closed fracture of sacrum and coccyx with unspecified spinal cord injuryICD-9-CMDiagnosis806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.6	Closed fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.61Closed fracture of sacrum and coccyx with complete cauda equina lesionICD-9-CMDiagnosis	806.60	Closed fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
	806.60	Closed fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.61 Closed fracture of sacrum and coccyx with complete cauda equina lesion ICD-9-CM Diagnosis	806.61	Closed fracture of sacrum and coccyx with complete cauda equina lesion	ICD-9-CM	Diagnosis
	806.61	Closed fracture of sacrum and coccyx with complete cauda equina lesion	ICD-9-CM	Diagnosis



	•		Code
Code	Description	Code Type	Category
806.62	Closed fracture of sacrum and coccyx with other cauda equina injury	ICD-9-CM	Diagnosis
806.62	Closed fracture of sacrum and coccyx with other cauda equina injury	ICD-9-CM	Diagnosis
806.69	Closed fracture of sacrum and coccyx with other spinal cord injury	ICD-9-CM	Diagnosis
806.69	Closed fracture of sacrum and coccyx with other spinal cord injury	ICD-9-CM	Diagnosis
806.7	Open fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.7	Open fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.70	Open fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.70	Open fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.71	Open fracture of sacrum and coccyx with complete cauda equina lesion	ICD-9-CM	Diagnosis
806.71	Open fracture of sacrum and coccyx with complete cauda equina lesion	ICD-9-CM	Diagnosis
806.72	Open fracture of sacrum and coccyx with other cauda equina injury	ICD-9-CM	Diagnosis
806.72	Open fracture of sacrum and coccyx with other cauda equina injury	ICD-9-CM	Diagnosis
806.79	Open fracture of sacrum and coccyx with other spinal cord injury	ICD-9-CM	Diagnosis
806.79	Open fracture of sacrum and coccyx with other spinal cord injury	ICD-9-CM	Diagnosis
806.8	Closed fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.8	Closed fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.9	Open fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.9	Open fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
807	Fracture of rib(s), sternum, larynx, and trachea	ICD-9-CM	Diagnosis
807.0	Closed fracture of rib(s)	ICD-9-CM	Diagnosis
807.00	Closed fracture of rib(s), unspecified	ICD-9-CM	Diagnosis
807.01	Closed fracture of one rib	ICD-9-CM	Diagnosis
807.02	Closed fracture of two ribs	ICD-9-CM	Diagnosis
807.03	Closed fracture of three ribs	ICD-9-CM	Diagnosis
807.04	Closed fracture of four ribs	ICD-9-CM	Diagnosis
807.05	Closed fracture of five ribs	ICD-9-CM	Diagnosis
807.06	Closed fracture of six ribs	ICD-9-CM	Diagnosis
807.07	Closed fracture of seven ribs	ICD-9-CM	Diagnosis
807.08	Closed fracture of eight or more ribs	ICD-9-CM	Diagnosis
807.09	Closed fracture of multiple ribs, unspecified	ICD-9-CM	Diagnosis
807.1	Open fracture of rib(s)	ICD-9-CM	Diagnosis
807.10	Open fracture of rib(s), unspecified	ICD-9-CM	Diagnosis
807.11	Open fracture of one rib	ICD-9-CM	Diagnosis
807.12	Open fracture of two ribs	ICD-9-CM	Diagnosis
807.13	Open fracture of three ribs	ICD-9-CM	Diagnosis
807.14	Open fracture of four ribs	ICD-9-CM	Diagnosis
807.15	Open fracture of five ribs	ICD-9-CM	Diagnosis
807.16	Open fracture of six ribs	ICD-9-CM	Diagnosis
807.17	Open fracture of seven ribs	ICD-9-CM	Diagnosis
807.18	Open fracture of eight or more ribs	ICD-9-CM	Diagnosis
807.19	Open fracture of multiple ribs, unspecified	ICD-9-CM	Diagnosis
807.2	Closed fracture of sternum	ICD-9-CM	Diagnosis
807.3	Open fracture of sternum	ICD-9-CM	Diagnosis
807.4	Flail chest	ICD-9-CM	Diagnosis
807.4	Flail chest	ICD-9-CM	Diagnosis



_ ·			Code
Code	Description	Code Type	Category
807.5	Closed fracture of larynx and trachea	ICD-9-CM	Diagnosis
807.6	Open fracture of larynx and trachea	ICD-9-CM	Diagnosis
808	Fracture of pelvis	ICD-9-CM	Diagnosis
308	Fracture of pelvis	ICD-9-CM	Diagnosis
308.0	Closed fracture of acetabulum	ICD-9-CM	Diagnosis
808.0	Closed fracture of acetabulum	ICD-9-CM	Diagnosis
808.1	Open fracture of acetabulum	ICD-9-CM	Diagnosis
308.1	Open fracture of acetabulum	ICD-9-CM	Diagnosis
308.2	Closed fracture of pubis	ICD-9-CM	Diagnosis
308.2	Closed fracture of pubis	ICD-9-CM	Diagnosis
308.3	Open fracture of pubis	ICD-9-CM	Diagnosis
808.3	Open fracture of pubis	ICD-9-CM	Diagnosis
808.4	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.4	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.41	Closed fracture of ilium	ICD-9-CM	Diagnosis
308.41	Closed fracture of ilium	ICD-9-CM	Diagnosis
808.42	Closed fracture of ischium	ICD-9-CM	Diagnosis
308.42	Closed fracture of ischium	ICD-9-CM	Diagnosis
308.43	Multiple closed pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
308.43	Multiple closed pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
308.44	Multiple closed pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
308.44	Multiple closed pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
808.49	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
308.49	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.5	Open fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.5	Open fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.51	Open fracture of ilium	ICD-9-CM	Diagnosis
808.51	Open fracture of ilium	ICD-9-CM	Diagnosis
808.52	Open fracture of ischium	ICD-9-CM	Diagnosis
308.52	Open fracture of ischium	ICD-9-CM	Diagnosis
808.53	Multiple open pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
308.53	Multiple open pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
308.54	Multiple open pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
308.54	Multiple open pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
308.59	Open fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
308.59	Open fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
308.8	Unspecified closed fracture of pelvis	ICD-9-CM	Diagnosis
308.8	Unspecified closed fracture of pelvis	ICD-9-CM	Diagnosis
308.9	Unspecified open fracture of pelvis	ICD-9-CM	Diagnosis
308.9	Unspecified open fracture of pelvis	ICD-9-CM	Diagnosis
309	Ill-defined fractures of bones of trunk	ICD-9-CM	Diagnosis
309.0	Fracture of bones of trunk, closed	ICD-9-CM	Diagnosis
309.0 309.1	Fracture of bones of trunk, closed	ICD-9-CM	Diagnosis
309.1 310	Fracture of clavicle	ICD-9-CM	Diagnosis
	Closed fracture of clavicle		-
310.0		ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
810.00	Unspecified part of closed fracture of clavicle	ICD-9-CM	Diagnosis
810.01	Closed fracture of sternal end of clavicle	ICD-9-CM	Diagnosis
810.02	Closed fracture of shaft of clavicle	ICD-9-CM	Diagnosis
810.03	Closed fracture of acromial end of clavicle	ICD-9-CM	Diagnosis
810.1	Open fracture of clavicle	ICD-9-CM	Diagnosis
810.10	Unspecified part of open fracture of clavicle	ICD-9-CM	Diagnosis
810.11	Open fracture of sternal end of clavicle	ICD-9-CM	Diagnosis
810.12	Open fracture of shaft of clavicle	ICD-9-CM	Diagnosis
810.13	Open fracture of acromial end of clavicle	ICD-9-CM	Diagnosis
811	Fracture of scapula	ICD-9-CM	Diagnosis
811.0	Closed fracture of scapula	ICD-9-CM	Diagnosis
811.00	Closed fracture of unspecified part of scapula	ICD-9-CM	Diagnosis
811.01	Closed fracture of acromial process of scapula	ICD-9-CM	Diagnosis
811.02	Closed fracture of coracoid process of scapula	ICD-9-CM	Diagnosis
811.03	Closed fracture of glenoid cavity and neck of scapula	ICD-9-CM	Diagnosis
811.09	Closed fracture of other part of scapula	ICD-9-CM	Diagnosis
811.1	Open fracture of scapula	ICD-9-CM	Diagnosis
811.10	Open fracture of unspecified part of scapula	ICD-9-CM	Diagnosis
811.11	Open fracture of acromial process of scapula	ICD-9-CM	Diagnosis
811.12	Open fracture of coracoid process	ICD-9-CM	Diagnosis
811.13	Open fracture of glenoid cavity and neck of scapula	ICD-9-CM	Diagnosis
811.19	Open fracture of other part of scapula	ICD-9-CM	Diagnosis
812	Fracture of humerus	ICD-9-CM	Diagnosis
812	Fracture of humerus	ICD-9-CM	Diagnosis
812.0	Closed fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.0	Closed fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.00	Closed fracture of unspecified part of upper end of humerus	ICD-9-CM	Diagnosis
812.00	Closed fracture of unspecified part of upper end of humerus	ICD-9-CM	Diagnosis
812.01	Closed fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.01	Closed fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.02	Closed fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.02	Closed fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.03	Closed fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis
812.03	Closed fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis
812.09	Other closed fractures of upper end of humerus	ICD-9-CM	Diagnosis
812.09	Other closed fractures of upper end of humerus	ICD-9-CM	Diagnosis
812.1	Open fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.1	Open fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.10	Open fracture of unspecified part of upper end of humerus	ICD-9-CM	Diagnosis
812.10	Open fracture of unspecified part of upper end of humerus	ICD-9-CM	Diagnosis
812.11	Open fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.11	Open fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.12	Open fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.12	Open fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.13	Open fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis


			Code
Code	Description	Code Type	Category
812.13	Open fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis
812.19	Other open fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.19	Other open fracture of upper end of humerus	ICD-9-CM	Diagnosis
812.2	Closed fracture of shaft or unspecified part of humerus	ICD-9-CM	Diagnosis
812.2	Closed fracture of shaft or unspecified part of humerus	ICD-9-CM	Diagnosis
812.20	Closed fracture of unspecified part of humerus	ICD-9-CM	Diagnosis
812.20	Closed fracture of unspecified part of humerus	ICD-9-CM	Diagnosis
812.21	Closed fracture of shaft of humerus	ICD-9-CM	Diagnosis
812.21	Closed fracture of shaft of humerus	ICD-9-CM	Diagnosis
812.3	Open fracture of shaft or unspecified part of humerus	ICD-9-CM	Diagnosis
812.3	Open fracture of shaft or unspecified part of humerus	ICD-9-CM	Diagnosis
812.30	Open fracture of unspecified part of humerus	ICD-9-CM	Diagnosis
812.30	Open fracture of unspecified part of humerus	ICD-9-CM	Diagnosis
812.31	Open fracture of shaft of humerus	ICD-9-CM	Diagnosis
812.31	Open fracture of shaft of humerus	ICD-9-CM	Diagnosis
812.4	Closed fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.4	Closed fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.40	Closed fracture of unspecified part of lower end of humerus	ICD-9-CM	Diagnosis
812.40	Closed fracture of unspecified part of lower end of humerus	ICD-9-CM	Diagnosis
812.41	Closed fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.41	Closed fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.42	Closed fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.42	Closed fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.43	Closed fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.43	Closed fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.44	Closed fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.44	Closed fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.49	Other closed fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.49	Other closed fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.5	Open fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.5	Open fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.50	Open fracture of unspecified part of lower end of humerus	ICD-9-CM	Diagnosis
812.50	Open fracture of unspecified part of lower end of humerus	ICD-9-CM	Diagnosis
812.51	Open fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.51	Open fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.52	Open fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.52	Open fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.53	Open fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.53	Open fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.54	Open fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.54	Open fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.59	Other open fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.59	Other open fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.59	Fracture of radius and ulna	ICD-9-CM	Diagnosis
813.0	Closed fracture of upper end of radius and ulna	ICD-9-CM	Diagnosis
013.0	Gosed nacture of upper end of faulus and unia	100-9-0101	Diagnosis



			Code
Code	Description	Code Type	Category
813.00	Unspecified fracture of radius and ulna, upper end of forearm, closed	ICD-9-CM	Diagnosis
813.01	Closed fracture of olecranon process of ulna	ICD-9-CM	Diagnosis
813.02	Closed fracture of coronoid process of ulna	ICD-9-CM	Diagnosis
813.03	Closed Monteggia's fracture	ICD-9-CM	Diagnosis
813.04	Other and unspecified closed fractures of proximal end of ulna (alone)	ICD-9-CM	Diagnosis
813.05	Closed fracture of head of radius	ICD-9-CM	Diagnosis
813.06	Closed fracture of neck of radius	ICD-9-CM	Diagnosis
813.07	Other and unspecified closed fractures of proximal end of radius (alone)	ICD-9-CM	Diagnosis
813.08	Closed fracture of radius with ulna, upper end (any part)	ICD-9-CM	Diagnosis
813.1	Open fracture of upper end of radius and ulna	ICD-9-CM	Diagnosis
813.10	Unspecified open fracture of upper end of forearm	ICD-9-CM	Diagnosis
813.11	Open fracture of olecranon process of ulna	ICD-9-CM	Diagnosis
813.12	Open fracture of coronoid process of ulna	ICD-9-CM	Diagnosis
813.13	Open Monteggia's fracture	ICD-9-CM	Diagnosis
813.14	Other and unspecified open fractures of proximal end of ulna (alone)	ICD-9-CM	Diagnosis
813.15	Open fracture of head of radius	ICD-9-CM	Diagnosis
813.16	Open fracture of neck of radius	ICD-9-CM	Diagnosis
813.17	Other and unspecified open fractures of proximal end of radius (alone)	ICD-9-CM	Diagnosis
813.18	Open fracture of radius with ulna, upper end (any part)	ICD-9-CM	Diagnosis
813.2	Closed fracture of shaft of radius and ulna	ICD-9-CM	Diagnosis
813.20	Unspecified closed fracture of shaft of radius or ulna	ICD-9-CM	Diagnosis
813.21	Closed fracture of shaft of radius (alone)	ICD-9-CM	Diagnosis
813.22	Closed fracture of shaft of ulna (alone)	ICD-9-CM	Diagnosis
813.23	Closed fracture of shaft of radius with ulna	ICD-9-CM	Diagnosis
813.3	Open fracture of shaft of radius and ulna	ICD-9-CM	Diagnosis
813.30	Unspecified open fracture of shaft of radius or ulna	ICD-9-CM	Diagnosis
813.31	Open fracture of shaft of radius (alone)	ICD-9-CM	Diagnosis
813.32	Open fracture of shaft of ulna (alone)	ICD-9-CM	Diagnosis
813.33	Open fracture of shaft of radius with ulna	ICD-9-CM	Diagnosis
813.4	Closed fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.40	Unspecified closed fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.41	Closed Colles' fracture	ICD-9-CM	Diagnosis
813.42	Other closed fractures of distal end of radius (alone)	ICD-9-CM	Diagnosis
813.43	Closed fracture of distal end of ulna (alone)	ICD-9-CM	Diagnosis
813.44	Closed fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.45	Torus fracture of radius (alone)	ICD-9-CM	Diagnosis
813.46	Torus fracture of ulna (alone)	ICD-9-CM	Diagnosis
813.47	Torus fracture of radius and ulna	ICD-9-CM	Diagnosis
813.5	Open fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.50	Unspecified open fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.51	Open Colles' fracture	ICD-9-CM	Diagnosis
813.52	Other open fractures of distal end of radius (alone)	ICD-9-CM	Diagnosis
813.53	Open fracture of distal end of ulna (alone)	ICD-9-CM	Diagnosis
813.54	Open fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.8	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
813.80	Closed fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.81	Closed fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.82	Closed fracture of unspecified part of ulna (alone)	ICD-9-CM	Diagnosis
813.83	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.9	Open fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.90	Open fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.91	Open fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.92	Open fracture of unspecified part of ulna (alone)	ICD-9-CM	Diagnosis
813.93	Open fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
818	III-defined fractures of upper limb	ICD-9-CM	Diagnosis
818.0	Ill-defined closed fractures of upper limb	ICD-9-CM	Diagnosis
818.1	Ill-defined open fractures of upper limb	ICD-9-CM	Diagnosis
819	Multiple fractures involving both upper limbs, and upper limb with rib(s) and sternum	ICD-9-CM	Diagnosis
819.0	Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and	ICD-9-CM	Diagnosis
	sternum		
819.1	Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum	ICD-9-CM	Diagnosis
820	Fracture of neck of femur	ICD-9-CM	Diagnosis
820	Fracture of neck of femur	ICD-9-CM	Diagnosis
820.0	Closed transcervical fracture	ICD-9-CM	Diagnosis
820.0	Closed transcervical fracture	ICD-9-CM	Diagnosis
820.00	Closed fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.00	Closed fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.02	Closed fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.02	Closed fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.03	Closed fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.03	Closed fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.09	Other closed transcervical fracture of femur	ICD-9-CM	Diagnosis
820.09	Other closed transcervical fracture of femur	ICD-9-CM	Diagnosis
820.1	Open transcervical fracture	ICD-9-CM	Diagnosis
820.1	Open transcervical fracture	ICD-9-CM	Diagnosis
820.10	Open fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.10	Open fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.12	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.12	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.13	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.13	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.19	Other open transcervical fracture of femur	ICD-9-CM	Diagnosis
820.19	Other open transcervical fracture of femur	ICD-9-CM	Diagnosis
820.2	Closed pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.2	Closed pertrochanteric fracture of femur	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
820.20	Closed fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.20	Closed fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.21	Closed fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.21	Closed fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.22	Closed fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.22	Closed fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.3	Open pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.3	Open pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.31	Open fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.31	Open fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.32	Open fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.32	Open fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.8	Closed fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
820.8	Closed fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
820.9	Open fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
820.9	Open fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
821	Fracture of other and unspecified parts of femur	ICD-9-CM	Diagnosis
821	Fracture of other and unspecified parts of femur	ICD-9-CM	Diagnosis
821.0	Closed fracture of shaft or unspecified part of femur	ICD-9-CM	Diagnosis
821.0	Closed fracture of shaft or unspecified part of femur	ICD-9-CM	Diagnosis
821.00	Closed fracture of unspecified part of femur	ICD-9-CM	Diagnosis
821.00	Closed fracture of unspecified part of femur	ICD-9-CM	Diagnosis
821.01	Closed fracture of shaft of femur	ICD-9-CM	Diagnosis
821.01	Closed fracture of shaft of femur	ICD-9-CM	Diagnosis
821.1	Open fracture of shaft or unspecified part of femur	ICD-9-CM	Diagnosis
821.1	Open fracture of shaft or unspecified part of femur	ICD-9-CM	Diagnosis
821.10	Open fracture of unspecified part of femur	ICD-9-CM	Diagnosis
821.10	Open fracture of unspecified part of femur	ICD-9-CM	Diagnosis
821.11	Open fracture of shaft of femur	ICD-9-CM	Diagnosis
821.11	Open fracture of shaft of femur	ICD-9-CM	Diagnosis
821.2	Closed fracture of lower end of femur	ICD-9-CM	Diagnosis
821.2	Closed fracture of lower end of femur	ICD-9-CM	Diagnosis
821.20	Closed fracture of unspecified part of lower end of femur	ICD-9-CM	Diagnosis
821.20	Closed fracture of unspecified part of lower end of femur	ICD-9-CM	Diagnosis
821.21	Closed fracture of femoral condyle	ICD-9-CM	Diagnosis
821.21	Closed fracture of femoral condyle	ICD-9-CM	Diagnosis
821.22	Closed fracture of lower epiphysis of femur	ICD-9-CM	Diagnosis
821.22	Closed fracture of lower epiphysis of femur	ICD-9-CM	Diagnosis
821.22	Closed supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.23	Closed supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.25	Other closed fracture of lower end of femur	ICD-9-CM	Diagnosis
821.29	Other closed fracture of lower end of femur	ICD-9-CM	Diagnosis
821.29	Open fracture of lower end of femur		
021.3	open nacture of lower end of lethul	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
821.3	Open fracture of lower end of femur	ICD-9-CM	Diagnosis
821.30	Open fracture of unspecified part of lower end of femur	ICD-9-CM	Diagnosis
821.30	Open fracture of unspecified part of lower end of femur	ICD-9-CM	Diagnosis
821.31	Open fracture of femoral condyle	ICD-9-CM	Diagnosis
821.31	Open fracture of femoral condyle	ICD-9-CM	Diagnosis
821.32	Open fracture of lower epiphysis of femur	ICD-9-CM	Diagnosis
821.32	Open fracture of lower epiphysis of femur	ICD-9-CM	Diagnosis
821.33	Open supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.33	Open supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.39	Other open fracture of lower end of femur	ICD-9-CM	Diagnosis
821.39	Other open fracture of lower end of femur	ICD-9-CM	Diagnosis
822	Fracture of patella	ICD-9-CM	Diagnosis
822.0	Closed fracture of patella	ICD-9-CM	Diagnosis
822.1	Open fracture of patella	ICD-9-CM	Diagnosis
823	Fracture of tibia and fibula	ICD-9-CM	Diagnosis
823.0	Closed fracture of upper end of tibia and fibula	ICD-9-CM	Diagnosis
823.00	Closed fracture of upper end of tibia	ICD-9-CM	Diagnosis
823.01	Closed fracture of upper end of fibula	ICD-9-CM	Diagnosis
823.02	Closed fracture of upper end of fibula with tibia	ICD-9-CM	Diagnosis
823.1	Open fracture of upper end of tibia and fibula	ICD-9-CM	Diagnosis
823.10	Open fracture of upper end of tibia	ICD-9-CM	Diagnosis
823.11	Open fracture of upper end of fibula	ICD-9-CM	Diagnosis
823.12	Open fracture of upper end of fibula with tibia	ICD-9-CM	Diagnosis
823.2	Closed fracture of shaft of tibia and fibula	ICD-9-CM	Diagnosis
823.20	Closed fracture of shaft of tibia	ICD-9-CM	Diagnosis
823.21	Closed fracture of shaft of fibula	ICD-9-CM	Diagnosis
823.22	Closed fracture of shaft of fibula with tibia	ICD-9-CM	Diagnosis
823.3	Open fracture of shaft of tibia and fibula	ICD-9-CM	Diagnosis
823.30	Open fracture of shaft of tibia	ICD-9-CM	Diagnosis
823.31	Open fracture of shaft of fibula	ICD-9-CM	Diagnosis
823.32	Open fracture of shaft of fibula with tibia	ICD-9-CM	Diagnosis
823.4	Torus fracture of tibia and fibula	ICD-9-CM	Diagnosis
823.40	Torus fracture of tibia alone	ICD-9-CM	Diagnosis
823.41	Torus fracture of fibula alone	ICD-9-CM	Diagnosis
823.42	Torus fracture of fibula with tibia	ICD-9-CM	Diagnosis
823.8	Closed fracture of unspecified part of tibia and fibula	ICD-9-CM	Diagnosis
823.80	Closed fracture of unspecified part of tibia	ICD-9-CM	Diagnosis
823.81	Closed fracture of unspecified part of fibula	ICD-9-CM	Diagnosis
823.82	Closed fracture of unspecified part of fibula with tibia	ICD-9-CM	Diagnosis
823.9	Open fracture of unspecified part of tibia and fibula	ICD-9-CM	Diagnosis
823.90	Open fracture of unspecified part of tibia	ICD-9-CM	Diagnosis
823.91	Open fracture of unspecified part of fibula	ICD-9-CM	Diagnosis
823.92	Open fracture of unspecified part of fibula with tibia	ICD-9-CM	Diagnosis
824	Fracture of ankle	ICD-9-CM	Diagnosis
824.0	Closed fracture of medial malleolus	ICD-9-CM	Diagnosis
024.0			Diagnosis



	· · ·		Code
Code	Description	Code Type	Category
824.1	Open fracture of medial malleolus	ICD-9-CM	Diagnosis
824.2	Closed fracture of lateral malleolus	ICD-9-CM	Diagnosis
824.3	Open fracture of lateral malleolus	ICD-9-CM	Diagnosis
824.4	Closed bimalleolar fracture	ICD-9-CM	Diagnosis
824.5	Open bimalleolar fracture	ICD-9-CM	Diagnosis
824.6	Closed trimalleolar fracture	ICD-9-CM	Diagnosis
824.7	Open trimalleolar fracture	ICD-9-CM	Diagnosis
824.8	Unspecified closed fracture of ankle	ICD-9-CM	Diagnosis
824.9	Unspecified open fracture of ankle	ICD-9-CM	Diagnosis
827	Other, multiple, and ill-defined fractures of lower limb	ICD-9-CM	Diagnosis
827.0	Other, multiple and ill-defined closed fractures of lower limb	ICD-9-CM	Diagnosis
827.1	Other, multiple and ill-defined open fractures of lower limb	ICD-9-CM	Diagnosis
828	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum	ICD-9-CM	Diagnosis
828	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum	ICD-9-CM	Diagnosis
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	Diagnosis
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	Diagnosis
828.1	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum, open	ICD-9-CM	Diagnosis
828.1	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum, open	ICD-9-CM	Diagnosis
829	Fracture of unspecified bones	ICD-9-CM	Diagnosis
829.0	Closed fracture of unspecified bone	ICD-9-CM	Diagnosis
829.1	Open fracture of unspecified bone	ICD-9-CM	Diagnosis
860	Traumatic pneumothorax and hemothorax	ICD-9-CM	Diagnosis
860.0	Traumatic pneumothorax without mention of open wound into thorax	ICD-9-CM	Diagnosis
860.1	Traumatic pneumothorax with open wound into thorax	ICD-9-CM	Diagnosis
860.2	Traumatic hemothorax without mention of open wound into thorax	ICD-9-CM	Diagnosis
860.3	Traumatic hemothorax with open wound into thorax	ICD-9-CM	Diagnosis
860.4	Traumatic pneumohemothorax without mention of open wound into thorax	ICD-9-CM	Diagnosis
860.5	Traumatic pneumohemothorax with open wound into thorax	ICD-9-CM	Diagnosis
862.0	Diaphragm injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
862.1	Diaphragm injury with open wound into cavity	ICD-9-CM	Diagnosis
862.8	Injury to multiple and unspecified intrathoracic organs without mention of open wound into cavity	ICD-9-CM	Diagnosis
862.9	Injury to multiple and unspecified intrathoracic organs with open wound into cavity	ICD-9-CM	Diagnosis
863.0	Stomach injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.1	Stomach injury with open wound into cavity	ICD-9-CM	Diagnosis
863.2	Small intestine injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.20	Small intestine injury, unspecified site, without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.21	Duodenum injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.29	Other injury to small intestine without mention of open wound into cavity	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
863.3	Small intestine injury with open wound into cavity	ICD-9-CM	Diagnosis
863.30	Small intestine injury, unspecified site, with open wound into cavity	ICD-9-CM	Diagnosis
863.31	Duodenum injury with open wound into cavity	ICD-9-CM	Diagnosis
863.39	Other injury to small intestine with open wound into cavity	ICD-9-CM	Diagnosis
863.4	Colon or rectal injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.40	Colon injury unspecified site, without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.41	Ascending (right) colon injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.42	Transverse colon injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.43	Descending (left) colon injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.44	Sigmoid colon injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.45	Rectum injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.46	Injury to multiple sites in colon and rectum without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.49	Other colon and rectum injury, without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.5	Injury to colon or rectum with open wound into cavity	ICD-9-CM	Diagnosis
863.50	Colon injury, unspecified site, with open wound into cavity	ICD-9-CM	Diagnosis
863.51	Ascending (right) colon injury with open wound into cavity	ICD-9-CM	Diagnosis
863.52	Transverse colon injury with open wound into cavity	ICD-9-CM	Diagnosis
863.53	Descending (left) colon injury with open wound into cavity	ICD-9-CM	Diagnosis
863.54	Sigmoid colon injury with open wound into cavity	ICD-9-CM	Diagnosis
863.55	Rectum injury with open wound into cavity	ICD-9-CM	Diagnosis
863.56	Injury to multiple sites in colon and rectum with open wound into cavity	ICD-9-CM	Diagnosis
863.59	Other injury to colon and rectum with open wound into cavity	ICD-9-CM	Diagnosis
863.8	Injury to other and unspecified gastrointestinal sites without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.80	Gastrointestinal tract injury, unspecified site, without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.81	Pancreas head injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.82	Pancreas body injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.83	Pancreas tail injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.84	Pancreas injury, multiple and unspecified sites, without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.85	Appendix injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.89	Injury to other and unspecified gastrointestinal sites without mention of open wound into cavity	ICD-9-CM	Diagnosis
863.9	Injury to other and unspecified gastrointestinal sites, with open wound into cavity	ICD-9-CM	Diagnosis
863.90	Gastrointestinal tract injury, unspecified site, with open wound into cavity	ICD-9-CM	Diagnosis
863.91	Pancreas head injury with open wound into cavity	ICD-9-CM	Diagnosis
863.92	Pancreas body injury with open wound into cavity	ICD-9-CM	Diagnosis
863.93	Pancreas tail injury with open wound into cavity	ICD-9-CM	Diagnosis
863.94	Pancreas injury, multiple and unspecified sites, with open wound into cavity	ICD-9-CM	Diagnosis
863.95	Appendix injury with open wound into cavity	ICD-9-CM	Diagnosis
863.99	Injury to other and unspecified gastrointestinal sites with open wound into cavity	ICD-9-CM	Diagnosis
864.1	Liver injury with open wound into cavity	ICD-9-CM	Diagnosis
864.10	Unspecified liver injury with open wound into cavity	ICD-9-CM	Diagnosis
864.11	Liver hematoma and contusion with open wound into cavity	ICD-9-CM	Diagnosis
864.12	Liver laceration, minor, with open wound into cavity	ICD-9-CM	Diagnosis



864.13       Liv         864.14       Liv         864.15       Liv         864.19       Ot         865.1       Sp         865.10       Un         865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         866.10       Un         866.01       Kic         866.02       Kic         866.03       Co         866.10       Un         866.11       Kic         866.12       Kic         866.13       Co	escription ver laceration, moderate, with open wound into cavity ver laceration, major, with open wound into cavity ver injury with open wound into cavity, unspecified laceration ther liver injury with open wound into cavity obleen injury with open wound into cavity nspecified spleen injury with open wound into cavity obleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into nvity obleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity dney laceration without mention of open wound into cavity	Code Type 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 ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Category Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
864.14       Liv         864.15       Liv         864.19       Ot         865.1       Sp         865.10       Un         865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         866.10       Un         866.01       Kic         866.03       Co         866.1       Kic         866.1       Kic         866.11       Kic         866.12       Kic	ver laceration, major, with open wound into cavity ver injury with open wound into cavity, unspecified laceration ther liver injury with open wound into cavity oleen injury with open wound into cavity obleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into noty obleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	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 ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
864.15       Liv         864.19       Ot         865.1       Sp         865.10       Un         865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         865.19       Ot         866.01       Kic         866.02       Kic         866.03       Co         866.1       Kic         866.1       Kic         866.11       Kic         866.12       Kic	ver injury with open wound into cavity, unspecified laceration ther liver injury with open wound into cavity obleen injury with open wound into cavity nspecified spleen injury with open wound into cavity obleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into notity obleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	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 ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
864.19       Ot         865.1       Sp         865.10       Un         865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         866.0       Un         866.01       Kic         866.02       Kic         866.03       Co         866.10       Un         866.11       Kic         866.12       Kic	ther liver injury with open wound into cavity oleen injury with open wound into cavity inspecified spleen injury with open wound into cavity oleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into avity oleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	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 ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
865.1       Sp         865.10       Un         865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         866.19       Ot         866.00       Un         866.01       Kic         866.02       Kic         866.03       Co         866.10       Un         866.11       Kic         866.12       Kic         866.13       Co	bleen injury with open wound into cavity inspecified spleen injury with open wound into cavity bleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into noticy bleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	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 ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
865.10       Un         865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         866.19       Ot         866.00       Un         866.01       Kic         866.02       Kic         866.03       Co         866.1       Kic         866.10       Un         866.11       Kic         866.12       Kic	nspecified spleen injury with open wound into cavity oleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into nvity oleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
865.11       Sp         865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         865.19       Ot         866.0       Inj         866.0       Un         866.01       Kic         866.02       Kic         866.03       Co         866.10       Un         866.10       Kic         866.10       Kic         866.11       Kic         866.12       Kic	oleen hematoma, without rupture of capsule, with open wound into cavity apsular tears to spleen, without major disruption of parenchyma, with open wound into avity oleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
865.12       Ca         865.13       Sp         865.14       Ma         865.19       Ot         866.19       Ot         866.00       Un         866.01       Kic         866.02       Kic         866.03       Co         866.10       Un         866.11       Kic         866.12       Kic         866.13       Co	apsular tears to spleen, without major disruption of parenchyma, with open wound into nvity oleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis Diagnosis
cav 865.13 Sp 865.14 Ma 865.19 Ot 866.0 Kic 866.00 Un 866.01 Kic 866.02 Kic 866.03 Co 866.1 Kic 866.10 Un 866.10 Un 866.10 Kic 866.12 Kic 866.12 Kic	avity bleen laceration extending into parenchyma, with open wound into cavity lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis
865.14         Ma           865.19         Ot           866.19         Ot           866.0         Inj           866.00         Un           866.01         Kic           866.02         Kic           866.03         Co           866.1         Kic           866.1         Kic           866.10         Un           866.11         Kic           866.12         Kic           866.13         Co	lassive parenchyma disruption of spleen with open wound into cavity ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis
865.19         Ot           866         Inj           866.0         Kic           866.01         Kic           866.02         Kic           866.03         Co           866.1         Kic           866.1         Kic           866.1         Kic           866.1         Kic           866.1         Kic           866.11         Kic           866.12         Kic           866.13         Co	ther spleen injury with open wound into cavity jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis
866         Inj           866.0         Kic           866.00         Un           866.01         Kic           866.02         Kic           866.03         Co           866.1         Kic           866.1         Kic           866.1         Kic           866.1         Kic           866.11         Kic           866.12         Kic           866.13         Co	jury to kidney dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis
866.0         Kic           866.00         Un           866.01         Kic           866.02         Kic           866.03         Co           866.1         Kic           866.10         Un           866.10         Kic           866.10         Kic           866.10         Kic           866.11         Kic           866.12         Kic           866.13         Co	dney injury without mention of open wound into cavity nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM ICD-9-CM	-
866.00         Un           866.01         Kic           866.02         Kic           866.03         Co           866.1         Kic           866.10         Un           866.10         Un           866.11         Kic           866.12         Kic           866.13         Co	nspecified kidney injury without mention of open wound into cavity dney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM	Diagnosis
866.01         Kic           866.02         Kic           866.03         Co           866.1         Kic           866.10         Un           866.11         Kic           866.12         Kic           866.13         Co	dney hematoma without rupture of capsule or mention of open wound into cavity		
866.02         Kic           866.03         Co           866.1         Kic           866.10         Un           866.11         Kic           866.12         Kic           866.13         Co			Diagnosis
866.03         Co           866.1         Kic           866.10         Un           866.11         Kic           866.12         Kic           866.13         Co	dney laceration without mention of open wound into cavity	ICD-9-CM	Diagnosis
866.1 Kic 866.10 Un 866.11 Kic 866.12 Kic 866.13 Co		ICD-9-CM	Diagnosis
866.10 Un 866.11 Kic 866.12 Kic 866.13 Co	omplete disruption of kidney parenchyma, without mention of open wound into cavity	ICD-9-CM	Diagnosis
866.11 Kic 866.12 Kic 866.13 Co	dney injury with open wound into cavity	ICD-9-CM	Diagnosis
866.12 Kic 866.13 Co	nspecified kidney injury with open wound into cavity	ICD-9-CM	Diagnosis
866.13 Co	dney hematoma, without rupture of capsule, with open wound into cavity	ICD-9-CM	Diagnosis
	dney laceration with open wound into cavity	ICD-9-CM	Diagnosis
0.67 103	omplete disruption of kidney parenchyma, with open wound into cavity	ICD-9-CM	Diagnosis
867 Inj	jury to pelvic organs	ICD-9-CM	Diagnosis
867.0 Bla	adder and urethra injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.1 Bla	adder and urethra injury with open wound into cavity	ICD-9-CM	Diagnosis
867.2 Ur	reter injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.3 Ur	reter injury with open wound into cavity	ICD-9-CM	Diagnosis
867.4 Ut	terus injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.5 Ut	terus injury with open wound into cavity	ICD-9-CM	Diagnosis
867.6 Inj	jury to other specified pelvic organs without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.7 Inj	jury to other specified pelvic organs with open wound into cavity	ICD-9-CM	Diagnosis
867.8 Inj	jury to unspecified pelvic organ without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.9 Inj	jury to unspecified pelvic organ with open wound into cavity	ICD-9-CM	Diagnosis
873.0 Op	pen wound of scalp, without mention of complication	ICD-9-CM	Diagnosis
873.1 Op	pen wound of scalp, complicated	ICD-9-CM	Diagnosis
875.0 Op	pen wound of chest (wall), without mention of complication	ICD-9-CM	Diagnosis
	pen wound of chest (wall), complicated	ICD-9-CM	Diagnosis
•	enal blood vessel injury	ICD-9-CM	Diagnosis
	enal vessel(s) injury, unspecified	ICD-9-CM	Diagnosis
	enal artery injury	ICD-9-CM	Diagnosis
	enal vein injury	ICD-9-CM	Diagnosis
	enal blood vessel injury, other	ICD-9-CM	Diagnosis
	terine artery injury	ICD-9-CM	Diagnosis
902.56 Ut		ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
902.81	Ovarian artery injury	ICD-9-CM	Diagnosis
902.82	Ovarian vein injury	ICD-9-CM	Diagnosis
925	Crushing injury of face, scalp, and neck	ICD-9-CM	Diagnosis
925.1	Crushing injury of face and scalp	ICD-9-CM	Diagnosis
925.2	Crushing injury of neck	ICD-9-CM	Diagnosis
926	Crushing injury of trunk	ICD-9-CM	Diagnosis
926.0	Crushing injury of external genitalia	ICD-9-CM	Diagnosis
926.1	Crushing injury of other specified sites of trunk	ICD-9-CM	Diagnosis
926.11	Crushing injury of back	ICD-9-CM	Diagnosis
926.12	Crushing injury of buttock	ICD-9-CM	Diagnosis
926.19	Crushing injury of other specified sites of trunk	ICD-9-CM	Diagnosis
926.8	Crushing injury of multiple sites of trunk	ICD-9-CM	Diagnosis
926.9	Crushing injury of unspecified site of trunk	ICD-9-CM	Diagnosis
927	Crushing injury of upper limb	ICD-9-CM	Diagnosis
927.0	Crushing injury of shoulder and upper arm	ICD-9-CM	Diagnosis
927.00	Crushing injury of shoulder region	ICD-9-CM	Diagnosis
927.01	Crushing injury of scapular region	ICD-9-CM	Diagnosis
927.02	Crushing injury of axillary region	ICD-9-CM	Diagnosis
927.03	Crushing injury of upper arm	ICD-9-CM	Diagnosis
927.09	Crushing injury of multiple sites of upper arm	ICD-9-CM	Diagnosis
927.1	Crushing injury of elbow and forearm	ICD-9-CM	Diagnosis
927.10	Crushing injury of forearm	ICD-9-CM	Diagnosis
927.11	Crushing injury of elbow	ICD-9-CM	Diagnosis
927.2	Crushing injury of wrist and hand(s), except finger(s) alone	ICD-9-CM	Diagnosis
927.20	Crushing injury of hand(s)	ICD-9-CM	Diagnosis
927.21	Crushing injury of wrist	ICD-9-CM	Diagnosis
927.3	Crushing injury of finger(s)	ICD-9-CM	Diagnosis
927.8	Crushing injury of multiple sites of upper limb	ICD-9-CM	Diagnosis
927.9	Crushing injury of unspecified site of upper limb	ICD-9-CM	Diagnosis
928	Crushing injury of lower limb	ICD-9-CM	Diagnosis
928.0	Crushing injury of hip and thigh	ICD-9-CM	Diagnosis
928.00	Crushing injury of thigh	ICD-9-CM	Diagnosis
928.01	Crushing injury of hip	ICD-9-CM	Diagnosis
928.1	Crushing injury of knee and lower leg	ICD-9-CM	Diagnosis
928.10	Crushing injury of lower leg	ICD-9-CM	Diagnosis
928.11	Crushing injury of knee	ICD-9-CM	Diagnosis
928.2	Crushing injury of ankle and foot, excluding toe(s) alone	ICD-9-CM	Diagnosis
928.20	Crushing injury of foot	ICD-9-CM	Diagnosis
928.21	Crushing injury of ankle	ICD-9-CM	Diagnosis
928.3	Crushing injury of toe(s)	ICD-9-CM	Diagnosis
928.8	Crushing injury of multiple sites of lower limb	ICD-9-CM	Diagnosis
928.9	Crushing injury of unspecified site of lower limb	ICD-9-CM	Diagnosis
929	Crushing injury of multiple and unspecified sites	ICD-9-CM	Diagnosis
929.0	Crushing injury of multiple sites, not elsewhere classified	ICD-9-CM	Diagnosis
929.9	Crushing injury of unspecified site	ICD-9-CM	Diagnosis
JZ3.3	Grashing injury of anspectied site	ルローターレーター	Diagnosis



<b>.</b> .		<b>•</b> • -	Code
Code	Description	Code Type	Category
958.4	Traumatic shock	ICD-9-CM	Diagnosis
958.5	Traumatic anuria	ICD-9-CM	Diagnosis
958.7	Traumatic subcutaneous emphysema	ICD-9-CM	Diagnosis
996.7	Other complications of internal prosthetic device, implant, and graft	ICD-9-CM	Diagnosis
996.70	Other complications due to unspecified device, implant, and graft	ICD-9-CM	Diagnosis
996.71	Other complications due to heart valve prosthesis	ICD-9-CM	Diagnosis
996.72	Other complications due to other cardiac device, implant, and graft	ICD-9-CM	Diagnosis
996.73	Other complications due to renal dialysis device, implant, and graft	ICD-9-CM	Diagnosis
996.74	Other complications due to other vascular device, implant, and graft	ICD-9-CM	Diagnosis
996.75	Other complications due to nervous system device, implant, and graft	ICD-9-CM	Diagnosis
996.76	Other complications due to genitourinary device, implant, and graft	ICD-9-CM	Diagnosis
996.77	Other complications due to internal joint prosthesis	ICD-9-CM	Diagnosis
996.78	Other complications due to other internal orthopedic device, implant, and graft	ICD-9-CM	Diagnosis
996.79	Other complications due to other internal prosthetic device, implant, and graft	ICD-9-CM	Diagnosis
998.11	Hemorrhage complicating a procedure	ICD-9-CM	Diagnosis
998.12	Hematoma complicating a procedure	ICD-9-CM	Diagnosis
998.2	Accidental puncture or laceration during procedure	ICD-9-CM	Diagnosis
E805	Hit by rolling stock	ICD-9-CM	Diagnosis
E805.0	Railway employee hit by rolling stock	ICD-9-CM	Diagnosis
E805.1	Passenger on railway hit by rolling stock	ICD-9-CM	Diagnosis
E805.2	Pedestrian hit by rolling stock	ICD-9-CM	Diagnosis
E805.3	Pedal cyclist hit by rolling stock	ICD-9-CM	Diagnosis
E805.8	Other specified person hit by rolling stock	ICD-9-CM	Diagnosis
E805.9	Unspecified person hit by rolling stock	ICD-9-CM	Diagnosis
E870	Accidental cut, puncture, perforation, or hemorrhage during medical care	ICD-9-CM	Diagnosis
E870.0	Accidental cut, puncture, perforation, or hemorrhage during surgical operation	ICD-9-CM	Diagnosis
E870.1	Accidental cut, puncture, perforation, or hemorrhage during infusion or transfusion	ICD-9-CM	Diagnosis
E870.2	Accidental cut, puncture, perforation, or hemorrhage during kidney dialysis or other perfusion	ICD-9-CM	Diagnosis
E870.3	Accidental cut, puncture, perforation, or hemorrhage during injection or vaccination	ICD-9-CM	Diagnosis
E870.4	Accidental cut, puncture, perforation, or hemorrhage during endoscopic examination	ICD-9-CM	Diagnosis
E870.5	Accidental cut, puncture, perforation, or hemorrhage during aspiration of fluid or tissue, puncture, and catheterization	ICD-9-CM	Diagnosis
E870.6	Accidental cut, puncture, perforation, or hemorrhage during heart catheterization	ICD-9-CM	Diagnosis
E870.7	Accidental cut, puncture, perforation, or hemorrhage during administration of enema	ICD-9-CM	Diagnosis
E870.8	Accidental cut, puncture, perforation, or hemorrhage during other specified medical care	ICD-9-CM	Diagnosis
E870.9	Accidental cut, puncture, perforation, or hemorrhage during unspecified medical care	ICD-9-CM	Diagnosis
E881	Accidental fall on or from ladders or scaffolding	ICD-9-CM	Diagnosis
E881.0	Accidental fall from ladder	ICD-9-CM	Diagnosis
E881.1	Accidental fall from scaffolding	ICD-9-CM	Diagnosis
E882	Accidental fall from or out of building or other structure	ICD-9-CM	Diagnosis
E883	Accidental fall into hole or other opening in surface	ICD-9-CM	Diagnosis
E883.0	Accident from diving or jumping into water (swimming pool)	ICD-9-CM	Diagnosis
E883.1	Accidental fall into well	ICD-9-CM	
			Diagnosis
E883.2	Accidental fall into storm drain or manhole	ICD-9-CM	Diagnosis



<u> </u>			Code
Code	Description	Code Type	Category
E883.9	Accidental fall into other hole or other opening in surface	ICD-9-CM	Diagnosis
E922	Accident caused by firearm, and air gun missiles	ICD-9-CM	Diagnosis
E922.0	Accident caused by handgun	ICD-9-CM	Diagnosis
E922.1	Accident caused by shotgun (automatic)	ICD-9-CM	Diagnosis
E922.2	Accident caused by hunting rifle	ICD-9-CM	Diagnosis
E922.3	Accident caused by military firearms	ICD-9-CM	Diagnosis
E922.4	Accident caused by air gun	ICD-9-CM	Diagnosis
E922.5	Accident caused by paintball gun	ICD-9-CM	Diagnosis
E922.8	Accident caused by other specified firearm missile	ICD-9-CM	Diagnosis
E922.9	Accident caused by unspecified firearm missile	ICD-9-CM	Diagnosis
E923	Accident caused by explosive material	ICD-9-CM	Diagnosis
E923.0	Accident caused by fireworks	ICD-9-CM	Diagnosis
E923.1	Accident caused by blasting materials	ICD-9-CM	Diagnosis
E923.2	Accident caused by explosive gases	ICD-9-CM	Diagnosis
E923.8	Accident caused by other explosive materials	ICD-9-CM	Diagnosis
E923.9	Accident caused by unspecified explosive material	ICD-9-CM	Diagnosis
E955	Suicide and self-inflicted injury by firearms, air guns and explosives	ICD-9-CM	Diagnosis
E955.0	Suicide and self-inflicted injury by handgun	ICD-9-CM	Diagnosis
E955.1	Suicide and self-inflicted injury by shotgun	ICD-9-CM	Diagnosis
E955.2	Suicide and self-inflicted injury by hunting rifle	ICD-9-CM	Diagnosis
E955.3	Suicide and self-inflicted injury by military firearms	ICD-9-CM	Diagnosis
E955.4	Suicide and self-inflicted injury by other and unspecified firearm	ICD-9-CM	Diagnosis
E955.5	Suicide and self-inflicted injury by explosives	ICD-9-CM	Diagnosis
E955.6	Suicide and self-inflicted injury by air gun	ICD-9-CM	Diagnosis
E955.7	Suicide and self-inflicted injury by paintball gun	ICD-9-CM	Diagnosis
E955.9	Suicide and self-inflicted injury by firearms and explosives, unspecified	ICD-9-CM	Diagnosis
E960	Fight, brawl, rape	ICD-9-CM	Diagnosis
E960.0	Unarmed fight or brawl	ICD-9-CM	Diagnosis
E960.1	Rape	ICD-9-CM	Diagnosis
E965	Assault by firearms and explosives	ICD-9-CM	Diagnosis
E965.0	Assault by handgun	ICD-9-CM	Diagnosis
E965.1	Assault by shotgun	ICD-9-CM	Diagnosis
E965.2	Assault by hunting rifle	ICD-9-CM	Diagnosis
E965.3	Assault by military firearms	ICD-9-CM	Diagnosis
E965.4	Assault by other and unspecified firearm	ICD-9-CM	Diagnosis
E965.5	Assault by antipersonnel bomb	ICD-9-CM	Diagnosis
E965.6	Assault by gasoline bomb	ICD-9-CM	Diagnosis
E965.7	Assault by letter bomb	ICD-9-CM	Diagnosis
E965.8	Assault by other specified explosive	ICD-9-CM	Diagnosis
E965.9	Assault by unspecified explosive	ICD-9-CM	Diagnosis
E970	Injury due to legal intervention by firearms	ICD-9-CM	Diagnosis
E985	Injury by firearms, air guns and explosives, undetermined whether accidentally or purposely	ICD-9-CM	Diagnosis
	inflicted		
E985.0	Injury by handgun, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
E985.2	Injury by hunting rifle, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis
E985.3	Injury by military firearms, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis
E985.4	Injury by other and unspecified firearm, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis
E985.5	Injury by explosives, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis
E985.6	Injury by air gun, undetermined whether accidental, or purposefully inflicted	ICD-9-CM	Diagnosis
E985.7	Injury by paintball gun, undetermined whether accidentally or purposefully inflicted	ICD-9-CM	Diagnosis



Appendix D. List of Generic an Brand Names of Medical Products Used to Define Exposure Incidence and Censoring Criteria in this Request

Generic Name	Brand Name	
	Apixaban	
apixaban	Eliquis	
	Dabigatran	
dabigatran etexilate mesylate	Pradaxa	
	Edoxaban	
edoxaban tosylate	Savaysa	
	Rivaroxaban	
rivaroxaban	Xarelto	
	Warfarin	
warfarin sodium	Warfarin	
warfarin sodium	Coumadin	
warfarin sodium	Jantoven	



			Code
Code	Description Atrial Fibrillation	Code Type	Category
427.31	Atrial fibrillation	ICD-9-CM	Diagnosis
427.32	Atrial flutter	ICD-9-CM	Diagnosis
427.3	Atrial fibrillation and flutter	ICD-9-CM	Diagnosis
	Deep Vein Thrombosis		
451.1	Phlebitis and thrombophlebitis of deep veins of lower extremities	ICD-9-CM	Diagnosis
451.11	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)	ICD-9-CM	Diagnosis
451.19	Phlebitis and thrombophlebitis of other deep vessels of lower extremities	ICD-9-CM	Diagnosis
451.2	Phlebitis and thrombophlebitis of lower extremities, unspecified	ICD-9-CM	Diagnosis
451.81	Phlebitis and thrombophlebitis of iliac vein	ICD-9-CM	Diagnosis
451.83	Phlebitis and thrombophlebitis of deep veins of upper extremities	ICD-9-CM	Diagnosis
453.4	Acute venous embolism and thrombosis of deep vessels of lower extremity	ICD-9-CM	Diagnosis
453.40	Acute venous embolism and thrombosis of unspecified deep vessels of lower extremity	ICD-9-CM	Diagnosis
453.41	Acute venous embolism and thrombosis of deep vessels of proximal lower extremity	ICD-9-CM	Diagnosis
453.42	Acute venous embolism and thrombosis of deep vessels of distal lower extremity	ICD-9-CM	Diagnosis
453.5	Chronic venous embolism and thrombosis of deep vessels of lower extremity	ICD-9-CM	Diagnosis
453.50	Chronic venous embolism and thrombosis of unspecified deep vessels of lower extremity	ICD-9-CM	Diagnosis
453.51	Chronic venous embolism and thrombosis of deep vessels of proximal lower extremity	ICD-9-CM	Diagnosis
453.52	Chronic venous embolism and thrombosis of deep vessels of distal lower extremity	ICD-9-CM	Diagnosis
	Dialysis		
792.5	Cloudy (hemodialysis) (peritoneal) dialysis affluent	ICD-9-CM	Diagnosis
V45.1	Renal dialysis status	ICD-9-CM	Diagnosis
V45.11	Renal dialysis status	ICD-9-CM	Diagnosis
V45.12	Noncompliance with renal dialysis	ICD-9-CM	Diagnosis
V56.0	Encounter for extracorporeal dialysis	ICD-9-CM	Diagnosis
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	ICD-9-CM	Diagnosis
V56.2	Fitting and adjustment of peritoneal dialysis catheter	ICD-9-CM	Diagnosis
V56.3	Encounter for adequacy testing for dialysis	ICD-9-CM	Diagnosis
V56.31	Encounter for adequacy testing for hemodialysis	ICD-9-CM	Diagnosis
V56.32	Encounter for adequacy testing for peritoneal dialysis	ICD-9-CM	Diagnosis
V56.8	Encounter other dialysis	ICD-9-CM	Diagnosis
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	CPT-4	Procedure
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	CPT-4	Procedure
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	CPT-4	Procedure
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	CPT-4	Procedure
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedure



			Code
Code	Description	Code Type	Category
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure



Code	Description	Code Type	Code Category
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
90963	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	CPT-4	Procedure
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	CPT-4	Procedure
90965	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	CPT-4	Procedure
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older	CPT-4	Procedure
90967	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	CPT-4	Procedure
90968	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	CPT-4	Procedure
90969	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	CPT-4	Procedure
90970	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	CPT-4	Procedure
90976	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Monthly Basis	CPT-4	Procedure
90989	Dialysis training, patient, including helper where applicable, any mode, completed course	CPT-4	Procedur
90990	Hemodialysis Training And/or Counseling	CPT-4	Procedure
90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician Primarily Responsible	CPT-4	Procedure
90992	Peritoneal Dialysis Training And/or Counseling	CPT-4	Procedure
90993	Dialysis training, patient, including helper where applicable, any mode, course not completed, per training session	CPT-4	Procedure



Code	Description	Code Type	Code
<b>Code</b> 90994	Description Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient	Code Type CPT-4	Category
90994	(monthly)	CP1-4	Procedure
90995	End Stage Renal Disease (esrd) Related Services, Per Full Month	CPT-4	Procedure
90996	Continuous Arteriovenous Hemofiltration (cavh) (per Day)	CPT-4	Procedure
90997	Hemoperfusion (eg, with activated charcoal or resin)	CPT-4	Procedure
90998	End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day	CPT-4	Procedure
90999	Unlisted dialysis procedure, inpatient or outpatient	CPT-4	Procedure
	Joint Replacement		
V43.6	Joint replaced by other means	ICD-9-CM	Diagnosis
V43.60	Unspecified joint replacement by other means	ICD-9-CM	Diagnosis
V43.61	Shoulder joint replacement by other means	ICD-9-CM	Diagnosis
V43.62	Elbow joint replacement by other means	ICD-9-CM	Diagnosis
V43.63	Wrist joint replacement by other means	ICD-9-CM	Diagnosis
V43.64	Hip joint replacement by other means	ICD-9-CM	Diagnosis
V43.65	Knee joint replacement by other means	ICD-9-CM	Diagnosis
V43.66	Ankle joint replacement by other means	ICD-9-CM	Diagnosis
V43.69	Other joint replacement by other means	ICD-9-CM	Diagnosis
81.5	Joint replacement of lower extremity	ICD-9-CM	Procedure
31.51	Total hip replacement	ICD-9-CM	Procedure
31.52	Partial hip replacement	ICD-9-CM	Procedure
31.53	Revision of hip replacement, not otherwise specified	ICD-9-CM	Procedure
31.54	Total knee replacement	ICD-9-CM	Procedure
81.55	Revision of knee replacement, not otherwise specified	ICD-9-CM	Procedure
81.56	Total ankle replacement	ICD-9-CM	Procedure
81.57	Replacement of joint of foot and toe	ICD-9-CM	Procedure
81.59	Revision of joint replacement of lower extremity, not elsewhere classified	ICD-9-CM	Procedure
81.8	Arthroplasty and repair of shoulder and elbow	ICD-9-CM	Procedure
81.80	Total shoulder replacement	ICD-9-CM	Procedure
81.81	Partial shoulder replacement	ICD-9-CM	Procedure
81.82	Repair of recurrent dislocation of shoulder	ICD-9-CM	Procedure
81.83	Other repair of shoulder	ICD-9-CM	Procedure
81.84	Total elbow replacement	ICD-9-CM	Procedure
81.85	Other repair of elbow	ICD-9-CM	Procedure
81.88	Reverse total shoulder replacement	ICD-9-CM	Procedure
0202T	Posterior vertebral joint(s) arthroplasty (eg, facet joint[s] replacement), including	CPT-3	Procedure
	facetectomy, laminectomy, foraminotomy, and vertebral column fixation, injection of bone cement, when performed, including fluoroscopy, single level, lumbar spine		
0375T	Total disc arthroplasty (artificial disc), anterior approach, including discectomy with end plate preparation (includes osteophytectomy for nerve root or spinal cord decompression and microdissection), cervical, three or more levels	CPT-3	Procedure
21243	Arthroplasty, temporomandibular joint, with prosthetic joint replacement	CPT-4	Procedure
23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement (eg, total shoulder))	CPT-4	Procedure
24361	Arthroplasty, elbow; with distal humeral prosthetic replacement	CPT-4	Procedure



			Code
Code	Description	Code Type	Category
24363	Arthroplasty, elbow; with distal humerus and proximal ulnar prosthetic replacement (eg, total elbow)	CPT-4	Procedure
24666	Open treatment of radial head or neck fracture, includes internal fixation or radial head excision, when performed; with radial head prosthetic replacement	CPT-4	Procedure
25441	Arthroplasty with prosthetic replacement; distal radius	CPT-4	Procedure
25442	Arthroplasty with prosthetic replacement; distal ulna	CPT-4	Procedure
25443	Arthroplasty with prosthetic replacement; scaphoid carpal (navicular)	CPT-4	Procedure
25444	Arthroplasty with prosthetic replacement; lunate	CPT-4	Procedure
25445	Arthroplasty with prosthetic replacement; trapezium	CPT-4	Procedure
25446	Arthroplasty with prosthetic replacement; distal radius and partial or entire carpus (total wrist)	CPT-4	Procedure
27125	Hemiarthroplasty, hip, partial (eg, femoral stem prosthesis, bipolar arthroplasty)	CPT-4	Procedure
27130	Arthroplasty, acetabular and proximal femoral prosthetic replacement (total hip arthroplasty), with or without autograft or allograft	CPT-4	Procedure
27132	Conversion of previous hip surgery to total hip arthroplasty, with or without autograft or allograft	CPT-4	Procedure
27134	Revision of total hip arthroplasty; both components, with or without autograft or allograft	CPT-4	Procedure
27137	Revision of total hip arthroplasty; acetabular component only, with or without autograft or allograft	CPT-4	Procedure
27138	Revision of total hip arthroplasty; femoral component only, with or without allograft	CPT-4	Procedure
27447	Arthroplasty, knee, condyle and plateau; medial AND lateral compartments with or without patella resurfacing (total knee arthroplasty)	CPT-4	Procedure
27486	Revision of total knee arthroplasty, with or without allograft; 1 component	CPT-4	Procedure
27487	Revision of total knee arthroplasty, with or without allograft; femoral and entire tibial component	CPT-4	Procedure
L8631	Metacarpal phalangeal joint replacement, 2 or more pieces, metal (e.g., stainless steel or cobalt chrome), ceramic-like material (e.g., pyrocarbon), for surgical implantation (all sizes, includes entire system)	HCPCS	Procedure
L8659	Interphalangeal finger joint replacement, 2 or more pieces, metal (e.g., stainless steel or cobalt chrome), ceramic-like material (e.g., pyrocarbon) for surgical implantation, any size	HCPCS	Procedure
	Kidney Replacement		
996.81	Complications of transplanted kidney	ICD-9-CM	Diagnosis
V42	Organ or tissue replaced by transplant	ICD-9-CM	Diagnosis
V42.0	Kidney replaced by transplant	ICD-9-CM	Diagnosis
55.6	Transplant of kidney	ICD-9-CM	Procedure
55.61	Renal autotransplantation	ICD-9-CM	Procedure
55.69	Other kidney transplantation	ICD-9-CM	Procedure
	Mitral Stenosis		
394	Diseases of mitral valve	ICD-9-CM	Diagnosis
394.0	Mitral stenosis	ICD-9-CM	Diagnosis
394.1	Rheumatic mitral insufficiency	ICD-9-CM	Diagnosis
394.2	Mitral stenosis with insufficiency	ICD-9-CM	Diagnosis
394.9	Other and unspecified mitral valve diseases	ICD-9-CM	Diagnosis
396.0	Mitral valve stenosis and aortic valve stenosis	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
396.1	Mitral valve stenosis and aortic valve insufficiency	ICD-9-CM	Diagnosis
396.8	Multiple involvement of mitral and aortic valves	ICD-9-CM	Diagnosis
	Pulmonary Embolism		
415.1	Pulmonary embolism and infarction	ICD-9-CM	Diagnosis
415.11	latrogenic pulmonary embolism and infarction	ICD-9-CM	Diagnosis
415.12	Septic pulmonary embolism	ICD-9-CM	Diagnosis
415.19	Other pulmonary embolism and infarction	ICD-9-CM	Diagnosis
	Valve Repair		
0343T	Transcatheter mitral valve repair percutaneous approach including transseptal puncture	CPT-3	Procedure
	when performed; initial prosthesis	(Category 3)	
0345T	Transcatheter mitral valve repair percutaneous approach via the coronary sinus	CPT-3	Procedure
33400	Valvuloplasty, aortic valve; open, with cardiopulmonary bypass	CPT-4	Procedure
33401	Valvuloplasty, aortic valve; open, with inflow occlusion	CPT-4	Procedure
33403	Valvuloplasty, aortic valve; using transventricular dilation, with cardiopulmonary bypass	CPT-4	Procedure
33420	Valvotomy, mitral valve; closed heart	CPT-4	Procedure
33422	Valvotomy, mitral valve; open heart, with cardiopulmonary bypass	CPT-4	Procedure
33425	Valvuloplasty, mitral valve, with cardiopulmonary bypass;	CPT-4	Procedure
33426	Valvuloplasty, mitral valve, with cardiopulmonary bypass; with prosthetic ring	CPT-4	Procedure
33427	Valvuloplasty, mitral valve, with cardiopulmonary bypass; radical reconstruction, with or without ring	CPT-4	Procedure
33460	Valvectomy, tricuspid valve, with cardiopulmonary bypass	CPT-4	Procedure
33463	Valvuloplasty, tricuspid valve; without ring insertion	CPT-4	Procedure
33464	Valvuloplasty, tricuspid valve; with ring insertion	CPT-4	Procedure
33468	Tricuspid valve repositioning and plication for Ebstein anomaly	CPT-4	Procedure
33470	Valvotomy, pulmonary valve, closed heart; transventricular	CPT-4	Procedure
33471	Valvotomy, pulmonary valve, closed heart; via pulmonary artery	CPT-4	Procedure
33472	Valvotomy, pulmonary valve, open heart; with inflow occlusion	CPT-4	Procedure
33474	Valvotomy, pulmonary valve, open heart, with cardiopulmonary bypass	CPT-4	Procedure
33476	Right ventricular resection for infundibular stenosis, with or without commissurotomy	CPT-4	Procedure
33496	Repair of non-structural prosthetic valve dysfunction with cardiopulmonary bypass	CPT-4	Procedure
	(separate procedure)		
92986	Percutaneous balloon valvuloplasty; aortic valve	CPT-4	Procedure
92987	Percutaneous balloon valvuloplasty; mitral valve	CPT-4	Procedure
92990	Percutaneous balloon valvuloplasty; pulmonary valve	CPT-4	Procedure
	Valve Replacement		
V42.2	Heart valve replaced by transplant	ICD-9-CM	Diagnosis
V43.3	Heart valve replaced by other means	ICD-9-CM	Diagnosis
35.2	Replacement of heart valve	ICD-9-CM	Procedure
35.20	Replacement of unspecified heart valve	ICD-9-CM	Procedure
35.21	Replacement of aortic valve with tissue graft	ICD-9-CM	Procedure
35.22	Other replacement of aortic valve	ICD-9-CM	Procedure
35.23	Replacement of mitral valve with tissue graft	ICD-9-CM	Procedure
35.24	Other replacement of mitral valve	ICD-9-CM	Procedure
35.25	Replacement of pulmonary valve with tissue graft	ICD-9-CM	Procedure
35.26	Other replacement of pulmonary valve	ICD-9-CM	Procedure



	•		Code
Code	Description	Code Type	Category
35.27	Replacement of tricuspid valve with tissue graft	ICD-9-CM	Procedure
35.28	Other replacement of tricuspid valve	ICD-9-CM	Procedure
0258T	Transthoracic cardiac exposure (eg, sternotomy, thoracotomy, subxiphoid) for catheter- delivered aortic valve replacement; without cardiopulmonary bypass	CPT-3	Procedure
0259T	Transthoracic cardiac exposure (eg, sternotomy, thoracotomy, subxiphoid) for catheter- delivered aortic valve replacement; with cardiopulmonary bypass	CPT-3	Procedure
0318T	Implantation of catheter-delivered prosthetic aortic heart valve, open thoracic approach, (eg, transapical, other than transaortic)	CPT-3	Procedure
33361	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous femoral artery approach	CPT-4	Procedure
33362	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral artery approach	CPT-4	Procedure
33363	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary artery approach	CPT-4	Procedure
33364	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery approach	CPT-4	Procedure
33365	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approach (eg, median sternotomy, mediastinotomy)	CPT-4	Procedure
33366	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposure (eg, left thoracotomy)	CPT-4	Procedure
33367	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with percutaneous peripheral arterial and venous cannulation (eg, femoral vessels) (List separately in addition to code for primary procedure)	CPT-4	Procedure
33368	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with open peripheral arterial and venous cannulation (eg, femoral, iliac, axillary vessels) (List separately in addition to code for primary procedure)	CPT-4	Procedure
33369	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary bypass support with central arterial and venous cannulation (eg, aorta, right atrium, pulmonary artery) (List separately in addition to code for primary procedure)	CPT-4	Procedure
33405	Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other than homograft or stentless valve	CPT-4	Procedure
33406	Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve (freehand)	CPT-4	Procedure
33410	Replacement, aortic valve, open, with cardiopulmonary bypass; with stentless tissue valve	CPT-4	Procedure
33411	Replacement, aortic valve; with aortic annulus enlargement, noncoronary sinus	CPT-4	Procedure
33412	Replacement, aortic valve; with transventricular aortic annulus enlargement (Konno procedure)	CPT-4	Procedure
33413	Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft replacement of pulmonary valve (Ross procedure)	CPT-4	Procedure
33418	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; initial prosthesis	CPT-4	Procedure



			Code
Code	Description	Code Type	Category
33419	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture when performed; additional prosthesis(es) during same session (List separately in addition to code for primary procedure)	CPT-4	Procedure
33430	Replacement, mitral valve, with cardiopulmonary bypass	CPT-4	Procedure
33465	Replacement, tricuspid valve, with cardiopulmonary bypass	CPT-4	Procedure
33475	Replacement, pulmonary valve	CPT-4	Procedure



Cada	Description	Code T	Code
Code	Description Dialysis	Code Type	Category
792.5	Cloudy (hemodialysis) (peritoneal) dialysis affluent	ICD-9-CM	Diagnosis
V45.1	Renal dialysis status	ICD-9-CM	Diagnosis
V45.11	Renal dialysis status	ICD-9-CM	Diagnosis
V45.12	Noncompliance with renal dialysis	ICD-9-CM	Diagnosis
V56.0	Encounter for extracorporeal dialysis	ICD-9-CM	Diagnosis
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	ICD-9-CM	Diagnosis
V56.2	Fitting and adjustment of peritoneal dialysis catheter	ICD-9-CM	Diagnosis
V56.3	Encounter for adequacy testing for dialysis	ICD-9-CM	Diagnosis
/56.31	Encounter for adequacy testing for hemodialysis	ICD-9-CM	Diagnosi
V56.32	Encounter for adequacy testing for peritoneal dialysis	ICD-9-CM	Diagnosis
V56.8	Encounter other dialysis	ICD-9-CM	Diagnosi
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	CPT-4	Procedur
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	CPT-4	Procedur
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	CPT-4	Procedure
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	CPT-4	Procedur
90941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedur
90942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedur
90943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedur
90944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4	Procedur
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	CPT-4	Procedur
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	CPT-4	Procedure
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	CPT-4	Procedur
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	CPT-4	Procedure
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	CPT-4	Procedur



Code	Description	Code Type	Code Category
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
90963	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	CPT-4	Procedure
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2 11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	· CPT-4	Procedure
90965	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	CPT-4	Procedure
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older	CPT-4	Procedure



<u> </u>		o	Code
Code	Description	Code Type	
90967	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	CPT-4	Procedure
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
50500	per day; for patients 2-11 years of age		Troccure
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
	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 service,	CPT-4	Procedure
	per day; for patients 20 years of age and older		
90976	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4	Procedure
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Monthly Basis	CPT-4	Procedure
90989	Dialysis training, patient, including helper where applicable, any mode, completed course	CPT-4	Procedure
90990	Hemodialysis Training And/or Counseling	CPT-4	Procedure
90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician Primarily Responsible	CPT-4	Procedure
90992	Peritoneal Dialysis Training And/or Counseling	CPT-4	Procedure
90993	Dialysis training, patient, including helper where applicable, any mode, course not completed, per training session	CPT-4	Procedure
90994	Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)	CPT-4	Procedure
90995	End Stage Renal Disease (esrd) Related Services, Per Full Month	CPT-4	Procedure
90996	Continuous Arteriovenous Hemofiltration (cavh) (per Day)	CPT-4	Procedure
90997	Hemoperfusion (eg, with activated charcoal or resin)	CPT-4	Procedure
90998	End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day	CPT-4	Procedure
90999	Unlisted dialysis procedure, inpatient or outpatient	CPT-4	Procedure
	Kidney Replacement		
996.81	Complications of transplanted kidney	ICD-9-CM	Diagnosis
V42	Organ or tissue replaced by transplant	ICD-9-CM	Diagnosis
V42.0	Kidney replaced by transplant	ICD-9-CM	Diagnosis
55.6	Transplant of kidney	ICD-9-CM	Procedure
55.61	Renal autotransplantation	ICD-9-CM	Procedure
55.69	Other kidney transplantation	ICD-9-CM	Procedure



			Code
Code	Description	Code Type	Category
	Acute Myocardial Infarction		
410	Acute myocardial infarction	ICD-9-CM	Dianosis
410.0	Acute myocardial infarction of anterolateral wall	ICD-9-CM	Dianosis
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	ICD-9-CM	Dianosis
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	ICD-9-CM	Dianosis
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	ICD-9-CM	Dianosis
410.1	Acute myocardial infarction of other anterior wall	ICD-9-CM	Dianosis
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	ICD-9-CM	Dianosis
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	ICD-9-CM	Dianosis
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	ICD-9-CM	Dianosis
410.2	Acute myocardial infarction of inferolateral wall	ICD-9-CM	Dianosis
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	ICD-9-CM	Dianosis
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	ICD-9-CM	Dianosis
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	ICD-9-CM	Dianosis
410.3	Acute myocardial infarction of inferoposterior wall	ICD-9-CM	Dianosis
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	ICD-9-CM	Dianosis
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	ICD-9-CM	Dianosis
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	ICD-9-CM	Dianosis
410.4	Acute myocardial infarction of other inferior wall	ICD-9-CM	Dianosis
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	ICD-9-CM	Dianosis
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	ICD-9-CM	Dianosis
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	ICD-9-CM	Dianosis
410.5	Acute myocardial infarction of other lateral wall	ICD-9-CM	Dianosis
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	ICD-9-CM	Dianosis
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	ICD-9-CM	Dianosis
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	ICD-9-CM	Dianosis
410.6	Acute myocardial infarction, true posterior wall infarction	ICD-9-CM	Dianosis
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	ICD-9-CM	Dianosis
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	ICD-9-CM	Dianosis
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	ICD-9-CM	Dianosis
410.7	Acute myocardial infarction, subendocardial infarction	ICD-9-CM	Dianosis
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	ICD-9-CM	Dianosis
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	ICD-9-CM	Dianosis
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	ICD-9-CM	Dianosis
410.8	Acute myocardial infarction of other specified sites	ICD-9-CM	Dianosis
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	ICD-9-CM	Dianosis
410.81	Acute myocardial infarction of other specified sites, initial episode of care	ICD-9-CM	Dianosis
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	ICD-9-CM	Dianosis
410.9	Acute myocardial infarction, unspecified site	ICD-9-CM	Dianosis
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	ICD-9-CM	Dianosis
410.91	Acute myocardial infarction, unspecified site, initial episode of care	ICD-9-CM	Dianosis
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	ICD-9-CM	Dianosis
-	Acute Kidney Failure		
584	Acute kidney failure	ICD-9-CM	Diagnosis

584 Acute kidney failure

584.5 Acute kidney failure with lesion of tubular necrosis



			Code
Code	Description	Code Type	Category
584.6	Acute kidney failure with lesion of renal cortical necrosis	ICD-9-CM	Diagnosis
584.7	Acute kidney failure with lesion of medullary [papillary] necrosis	ICD-9-CM	Diagnosis
584.8	Acute kidney failure with other specified pathological lesion in kidney	ICD-9-CM	Diagnosis
584.9	Acute kidney failure, unspecified	ICD-9-CM	Diagnosis
	Anticoagulants		
C9121	Injection, argatroban, per 5 mg	HCPCS	Procedure
10583	Injection, bivalirudin, 1 mg	HCPCS	Procedure
J1644	Injection, Heparin sodium, per 1000 units	HCPCS	Procedure
J1645	Injection, dalteparin sodium, per 2500 IU	HCPCS	Procedure
11650	Injection, enoxaparin sodium, 10 mg	HCPCS	Procedure
1652	Injection, fondaparinux sodium, 0.5 mg	HCPCS	Procedur
11655	Injection, tinzaparin sodium, 1000 IU	HCPCS	Procedure
1945	Injection, lepirudin, 50 mg	HCPCS	Procedur
	Cardiac Ablation		
37.33	Excision or destruction of other lesion or tissue of heart, open approach	ICD-9-CM	Procedur
37.34	Excision or destruction of other lesion or tissue of heart, other approach	ICD-9-CM	Procedur
33250	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-	CPT-4	Procedur
	Parkinson-White, atrioventricular node re-entry), tract(s) and/or focus (foci); without		
	cardiopulmonary bypass		
33251	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-	CPT-4	Procedur
	Parkinson-White, atrioventricular node re-entry), tract(s) and/or focus (foci); with		
	cardiopulmonary bypass		
33254	Operative tissue ablation and reconstruction of atria, limited (eg, modified maze	CPT-4	Procedur
	procedure)		
33255	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure);	CPT-4	Procedur
	without cardiopulmonary bypass		
33256	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); with	CPT-4	Procedur
	cardiopulmonary bypass		
33257	Operative tissue ablation and reconstruction of atria, performed at the time of other	CPT-4	Procedure
	cardiac procedure(s), limited (eg, modified maze procedure) (List separately in addition to		
	code for primary procedure)		
33258	Operative tissue ablation and reconstruction of atria, performed at the time of other	CPT-4	Procedur
	cardiac procedure(s), extensive (eg, maze procedure), without cardiopulmonary bypass		
	(List separately in addition to code for primary procedure)		
33259	Operative tissue ablation and reconstruction of atria, performed at the time of other	CPT-4	Procedur
	cardiac procedure(s), extensive (eg, maze procedure), with cardiopulmonary bypass (List		
	separately in addition to code for primary procedure)		
33261	Operative ablation of ventricular arrhythmogenic focus with cardiopulmonary bypass	CPT-4	Procedur
33265	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, limited (eg,	CPT-4	Procedur
	modified maze procedure), without cardiopulmonary bypass		
33266	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, extensive (eg,	CPT-4	Procedur
	maze procedure), without cardiopulmonary bypass		
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular	CPT-4	Procedure
	conduction for creation of complete heart block, with or without temporary pacemaker		
	placement		



			Code
Code	Description	Code Type	Category
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	CPT-4	Procedure
93652	Intracardiac catheter ablation of arrhythmogenic focus; for treatment of ventricular tachycardia	CPT-4	Procedure
C1732	, Catheter, electrophysiology, diagnostic/ablation, 3D or vector mapping	HCPCS	Procedure
C1733	Catheter, electrophysiology, diagnostic/ablation, other than 3D or vector mapping, other than cool-tip	HCPCS	Procedure
C2630	Catheter, electrophysiology, diagnostic/ablation, other than 3D or vector mapping, cool-tip	HCPCS	Procedure
	Cardioversion		
99.61	Atrial cardioversion	ICD-9-CM	Procedure
99.62	Other electric countershock of heart	ICD-9-CM	Procedure
92960	Cardioversion, elective, electrical conversion of arrhythmia; external	CPT-4	Procedure
92961	Cardioversion, elective, electrical conversion of arrhythmia; internal (separate procedure)	CPT-4	Procedure
	Chronic Renal Disease		
585	Chronic kidney disease (CKD)	ICD-9-CM	Dianosis
585.1	Chronic kidney disease, Stage I	ICD-9-CM	Dianosis
585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM	Dianosis
585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM	Dianosis
585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM	Dianosis
585.5	Chronic kidney disease, Stage V	ICD-9-CM	Dianosis
585.6	End stage renal disease	ICD-9-CM	Dianosis
585.9	Chronic kidney disease, unspecified	ICD-9-CM	Dianosis
586	Unspecified renal failure	ICD-9-CM	Dianosis
587	Unspecified renal sclerosis	ICD-9-CM	Dianosis
	Coronary Revascularization		<u> </u>
V45.81	Postprocedural aortocoronary bypass status	ICD-9-CM	Diagnosis
V45.82	Postprocedural percutaneous transluminal coronary angioplasty status	ICD-9-CM	Diagnosis
V45.88	Status post administration of tPA (rtPA) in a different facility within the last 24 hours prior	ICD-9-CM	Diagnosis
00.00	to admission to current facility		Dus es duns
00.66	Percutaneous transluminal coronary angioplasty [PTCA] or coronary atherectomy	ICD-9-CM	Procedure
36.0	Removal of coronary artery obstruction and insertion of stent(s)	ICD-9-CM	Procedure
36.03	Open chest coronary artery angioplasty	ICD-9-CM	Procedure
36.04	Intracoronary artery thrombolytic infusion	ICD-9-CM	Procedure
36.06	Insertion of non-drug-eluting coronary artery stent(s)	ICD-9-CM	Procedure
36.07	Insertion of drug-eluting coronary artery stent(s)	ICD-9-CM	Procedure
36.09	Other removal of coronary artery obstruction	ICD-9-CM	Procedure
36.1	Bypass anastomosis for heart revascularization	ICD-9-CM	Procedure
36.10	Aortocoronary bypass for heart revascularization, not otherwise specified	ICD-9-CM	Procedure
36.11	(Aorto)coronary bypass of one coronary artery	ICD-9-CM	Procedure
36.12	(Aorto)coronary bypass of two coronary arteries	ICD-9-CM	Procedure
36.13	(Aorto)coronary bypass of three coronary arteries	ICD-9-CM	Procedure
36.14	(Aorto)coronary bypass of four or more coronary arteries	ICD-9-CM	Procedure
36.15	Single internal mammary-coronary artery bypass	ICD-9-CM	Procedure



			Code
Code	Description	Code Type	Category
36.16	Double internal mammary-coronary artery bypass	ICD-9-CM	Procedure
36.17	Abdominal-coronary artery bypass	ICD-9-CM	Procedure
36.19	Other bypass anastomosis for heart revascularization	ICD-9-CM	Procedure
36.2	Heart revascularization by arterial implant	ICD-9-CM	Procedure
36.3	Other heart revascularization	ICD-9-CM	Procedure
36.31	Open chest transmyocardial revascularization	ICD-9-CM	Procedure
36.32	Other transmyocardial revascularization	ICD-9-CM	Procedure
36.33	Endoscopic transmyocardial revascularization	ICD-9-CM	Procedure
36.34	Percutaneous transmyocardial revascularization	ICD-9-CM	Procedure
36.39	Other heart revascularization	ICD-9-CM	Procedure
00566	Anesthesia for direct coronary artery bypass grafting; without pump oxygenator	CPT-4	Procedure
33508	Endoscopy, surgical, including video-assisted harvest of vein(s) for coronary artery bypass procedure (List separately in addition to code for primary procedure)	CPT-4	Procedure
33510	Coronary artery bypass, vein only; single coronary venous graft	CPT-4	Procedure
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	CPT-4	Procedure
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	CPT-4	Procedure
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	CPT-4	Procedure
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	CPT-4	Procedure
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	CPT-4	Procedure
33517	Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	CPT-4	Procedure
33518	Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	CPT-4	Procedure
33519	Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	CPT-4	Procedure
33521	Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	CPT-4	Procedure
33522	Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	CPT-4	Procedure
33523	Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	CPT-4	Procedure
33530	Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	CPT-4	Procedure
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	CPT-4	Procedure
33534	Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	CPT-4	Procedure
33535	Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	CPT-4	Procedure
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	CPT-4	Procedure
33572	Coronary endarterectomy, open, any method, of left anterior descending, circumflex, or right coronary artery performed in conjunction with coronary artery bypass graft procedure, each vessel (List separately in addition to primary procedure)	CPT-4	Procedure
35500	Harvest of upper extremity vein, 1 segment, for lower extremity or coronary artery bypass procedure (List separately in addition to code for primary procedure)	CPT-4	Procedure
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	CPT-4	Procedure



			Code
Code	Description	Code Type	Category
92921	Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	CPT-4	Procedure
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch	CPT-4	Procedure
92925	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	CPT-4	Procedure
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch	CPT-4	Procedure
92929	Percutaneous transcatheter placement of 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)	CPT-4	Procedure
92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	CPT-4	Procedure
92934	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	CPT-4	Procedure
92937	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	CPT-4	Procedure
92938	Percutaneous transluminal revascularization of or through coronary artery bypass graft (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)	CPT-4	Procedure
92941	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel	CPT-4	Procedure
92943	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; single vessel	CPT-4	Procedure
92944	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, 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)	CPT-4	Procedure
92973	Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure)	CPT-4	Procedure
92975	Thrombolysis, coronary; by intracoronary infusion, including selective coronary angiography	CPT-4	Procedure
92977	Thrombolysis, coronary; by intravenous infusion	CPT-4	Procedure
92980	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	CPT-4	Procedure



<b>.</b> .		<u> </u>	Code
Code	Description	Code Type	Category
92981	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
92982	Percutaneous transluminal coronary balloon angioplasty; single vessel	CPT-4	Procedure
92984	Percutaneous transluminal coronary balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
92995	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or without balloon angioplasty; single vessel	CPT-4	Procedure
92996	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or without balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	CPT-4	Procedure
93540	Injection procedure during cardiac catheterization; for selective opacification of aortocoronary venous bypass grafts, 1 or more coronary arteries	CPT-4	Procedure
93564	Injection procedure during cardiac catheterization including imaging supervision, 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)	CPT-4	Procedure
C9600	Percutaneous transcatheter placement of drug eluting intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch	HCPCS	Procedure
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)	HCPCS	Procedure
C9602	Percutaneous transluminal coronary atherectomy, with drug eluting intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	HCPCS	Procedure
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)	HCPCS	Procedure
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	HCPCS	Procedure
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)	HCPCS	Procedure
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	HCPCS	Procedure



		• · -	Code
Code	Description	Code Type	Category
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	HCPCS	Procedure
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)	HCPCS	Procedure
G0290	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	HCPCS	Procedure
G0291	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel	HCPCS	Procedure
G8158	Patient documented to have received coronary artery bypass graft with use of internal mammary artery	HCPCS	Procedure
G8159	Patient documented to have received coronary artery bypass graft without use of internal mammary artery	HCPCS	Procedure
G8161	Patient with isolated coronary artery bypass graft documented to have received pre- operative beta-blockade	HCPCS	Procedure
G8162	Patient with isolated coronary artery bypass graft not documented to have received preoperative beta-blockade	HCPCS	Procedure
G8163	Clinician documented that patient with isolated coronary artery bypass graft was not an eligible candidate for pre-operative beta-blockade measure	HCPCS	Procedure
G8164	Patient with isolated coronary artery bypass graft documented to have prolonged intubation	HCPCS	Procedure
G8165	Patient with isolated coronary artery bypass graft not documented to have prolonged intubation	HCPCS	Procedure
G8166	Patient with isolated coronary artery bypass graft documented to have required surgical re- exploration	HCPCS	Procedure
G8167	Patient with isolated coronary artery bypass graft did not require surgical re-exploration	HCPCS	Procedure
G8170	Patient with isolated coronary artery bypass graft documented to have been discharged on aspirin or clopidogrel	HCPCS	Procedure
G8171	Patient with isolated coronary artery bypass graft not documented to have been discharged on aspirin or clopidogrel	HCPCS	Procedure
G8172	Clinician documented that patient with isolated coronary artery bypass graft was not an	HCPCS	Procedure
	eligible candidate for antiplatelet therapy at discharge measure		
	Diabetes		
250	Diabetes mellitus	ICD-9-CM	Diagnosis
250.0	Diabetes mellitus without mention of complication	ICD-9-CM	Diagnosis
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
cder_mpl	2p_wp017	Page	246 of 312



		<b>.</b> . –	Code
Code	Description	Code Type	Category
250.1	Diabetes with ketoacidosis	ICD-9-CM	Diagnosi
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosi
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosi
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosi
50.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosi
50.2	Diabetes with hyperosmolarity	ICD-9-CM	Diagnosi
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnos
50.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnos
50.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnos
50.3	Diabetes with other coma	ICD-9-CM	Diagnos
50.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnos
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnos
50.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnos
50.4	Diabetes with renal manifestations	ICD-9-CM	Diagnos
50.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos
50.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnos
50.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnos
50.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnos
50.5	Diabetes with ophthalmic manifestations	ICD-9-CM	Diagnos
50.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnos
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnos
50.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnos
50.6	Diabetes with neurological manifestations	ICD-9-CM	Diagnos
50.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos
50.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnos
50.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnos
50.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnos
250.7	Diabetes with peripheral circulatory disorders	ICD-9-CM	Diagnos
50.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos
50.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnos
50.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnos
50.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnos
50.8	Diabetes with other specified manifestations	ICD-9-CM	Diagnos
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnos



		<b>.</b> . –	Code
Code	Description	Code Type	Category
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
250.9	Diabetes with unspecified complication	ICD-9-CM	Diagnosis
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM	Diagnosis
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	HCPCS	Procedure
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	HCPCS	Procedure
A5503	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom molded shoe with roller or rigid rocker bottom, per shoe	HCPCS	Procedure
A5504	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom molded shoe with wedge(s), per shoe	HCPCS	Procedure
A5505	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom molded shoe with metatarsal bar, per shoe	HCPCS	Procedure
A5506	For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or custom molded shoe with off-set heel(s), per shoe	HCPCS	Procedure
A5507	For diabetics only, not otherwise specified modification (including fitting) of off-the-shelf depth-inlay shoe or custom molded shoe, per shoe	HCPCS	Procedure
A5508	For diabetics only, deluxe feature of off-the-shelf depth-inlay shoe or custom molded shoe, per shoe	HCPCS	Procedure
A5510	For diabetics only, direct formed, compression molded to patient's foot without external heat source, multiple-density insert(s) prefabricated, per shoe	HCPCS	Procedure
A5512	For diabetics only, multiple density insert, direct formed, molded to foot after external heat 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	HCPCS	Procedure
A5513	For diabetics only, multiple density insert, custom molded from model of patient's foot, total 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	HCPCS	Procedure
G0108	Diabetes outpatient self-management training services, individual, per 30 minutes	HCPCS	Procedure
G0109	Diabetes outpatient self-management training services, group session (2 or more), per 30 minutes	HCPCS	Procedure



Cada	Description	Codo Trus	Code
<b>Code</b> G0245	Description Initial physician evaluation and management of a diabetic patient with diabetic sensory	Code Type HCPCS	Category Procedure
	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		
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	HCPCS	Procedure
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	HCPCS	Procedure
G8015	Diabetic patient with most recent hemoglobin A1c level (within the last 6 months) documented as greater than 9%	HCPCS	Procedure
G8016	Diabetic patient with most recent hemoglobin A1c level (within the last 6 months) documented as less than or equal to 9%	HCPCS	Procedure
G8017	Clinician documented that diabetic patient was not eligible candidate for hemoglobin A1c measure	HCPCS	Procedure
G8018	Clinician has not provided care for the diabetic patient for the required time for hemoglobin A1c measure (6 months)	HCPCS	Procedure
G8019	Diabetic patient with most recent low-density lipoprotein (within the last 12 months) documented as greater than or equal to 100 mg/dl	HCPCS	Procedure
G8020	Diabetic patient with most recent low-density lipoprotein (within the last 12 months) documented as less than 100 mg/dl	HCPCS	Procedure
G8021	Clinician documented that diabetic patient was not eligible candidate for low-density lipoprotein measure	HCPCS	Procedure
G8022	Clinician has not provided care for the diabetic patient for the required time for low- density lipoprotein measure (12 months)	HCPCS	Procedure
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	HCPCS	Procedure
G8024	Diabetic patient with most recent blood pressure (within the last 6 months) documented as less than 140 systolic and less than 80 diastolic	HCPCS	Procedure
G8025	Clinician documented that the diabetic patient was not eligible candidate for blood pressure measure	HCPCS	Procedure
G8026	Clinician has not provided care for the diabetic patient for the required time for blood pressure measure (within the last 6 months)	HCPCS	Procedure



			Code
Code	Description	Code Type	Category
G8332	Clinician has not provided care for the diabetic retinopathy patient for the required time for macular edema and retinopathy measurement	HCPCS	Procedure
G8333	Patient documented to have had findings of macular or fundus exam communicated to the physician managing the diabetes care	HCPCS	Procedure
G8334	Documentation of findings of macular or fundus exam not communicated to the physician managing the patient's ongoing diabetes care	HCPCS	Procedure
G8335	Clinician documentation that patient was not an eligible candidate for the findings of their macular or fundus exam being communicated to the physician managing their diabetes care during the reporting year	HCPCS	Procedure
G8336	Clinician has not provided care for the diabetic retinopathy patient for the required time for physician communication measurement	HCPCS	Procedure
G8385	Diabetic patients with no documentation of hemoglobin A1c level (within the last 12 months)	HCPCS	Procedure
G8386	Diabetic patients with no documentation of low-density lipoprotein (within the last 12 months)	HCPCS	Procedure
G8390	Diabetic patients with no documentation of blood pressure measurement (within the last 12 months)	HCPCS	Procedure
	Falls		
880	Accidental fall on or from stairs or steps	ICD-9-CM	
880.0	Accidental fall on or from escalator	ICD-9-CM	
880.1	Accidental fall on or from sidewalk curb	ICD-9-CM	
880.9	Accidental fall on or from other stairs or steps	ICD-9-CM	
881	Accidental fall on or from ladders or scaffolding	ICD-9-CM	
881.0	Accidental fall from ladder	ICD-9-CM	
881.1	Accidental fall from scaffolding	ICD-9-CM	
882	Accidental fall from or out of building or other structure	ICD-9-CM	
883	Accidental fall into hole or other opening in surface	ICD-9-CM	
883.0	Accident from diving or jumping into water (swimming pool)	ICD-9-CM	
883.1	Accidental fall into well	ICD-9-CM	
883.2	Accidental fall into storm drain or manhole	ICD-9-CM	
883.9	Accidental fall into other hole or other opening in surface	ICD-9-CM	
884	Other accidental fall from one level to another	ICD-9-CM	
884.0	Accidental fall from playground equipment	ICD-9-CM	
884.1	Accidental fall from cliff	ICD-9-CM	
884.2	Accidental fall from chair	ICD-9-CM	
884.3	Accidental fall from wheelchair	ICD-9-CM	
884.4	Accidental fall from bed	ICD-9-CM	Diagnosi
884.5	Accidental fall from other furniture	ICD-9-CM	Diagnosi
884.6	Accidental fall from commode	ICD-9-CM	Diagnosi
E884.9	Other accidental fall from one level to another	ICD-9-CM	Diagnosi
885	Accidental fall on same level from slipping, tripping, or stumbling	ICD-9-CM	Diagnosi
885.0	Fall on same level from (nonmotorized) scooter	ICD-9-CM	Diagnosi
E885.1	Fall from roller skates	ICD-9-CM	Diagnosi
E885.2	Fall from skateboard	ICD-9-CM	Diagnosi
E885.3	Fall from skis	ICD-9-CM	Diagnosi



			Code
Code	Description	Code Type	Category
E885.4	Fall from snowboard	ICD-9-CM	Diagnosis
E885.9	Fall from other slipping, tripping, or stumbling	ICD-9-CM	Diagnosis
E886	Accidental fall on same level from collision, pushing, or shoving, by or with other person	ICD-9-CM	Diagnosis
E886.0	Accidental fall on same level from collision, pushing, or shoving, by or with other person in sports	ICD-9-CM	Diagnosis
E886.9	Other and unspecified accidental falls on same level from collision, pushing, or shoving, by or with other person	ICD-9-CM	Diagnosis
E887	Fracture in accidental fall, cause unspecified	ICD-9-CM	Diagnosis
E888	Other and unspecified accidental fall	ICD-9-CM	Diagnosis
E888.0	Fall resulting in striking against sharp object	ICD-9-CM	Diagnosis
E888.1	Fall resulting in striking against other object	ICD-9-CM	Diagnosis
E888.8	Other fall	ICD-9-CM	Diagnosis
E888.9	Unspecified fall	ICD-9-CM	Diagnosis
E917.6	Strike against or struck accidentally by crowd, by collective fear or panic with subsequent fall	ICD-9-CM	Diagnosis
E917.7	Strike against or struck accidentally by furniture with subsequent fall	ICD-9-CM	Diagnosis
E917.8	Strike against or struck accidentally by other stationary object with subsequent fall	ICD-9-CM	Diagnosis
E917.9	Other accident caused by striking against or being struck accidentally by objects or persons	ICD-9-CM	Diagnosis
E929.3	Late effects of accidental fall	ICD-9-CM	Diagnosis
	Fractures		
807.0	Closed fracture of rib(s)	ICD-9-CM	Diagnosis
807.00	Closed fracture of rib(s), unspecified	ICD-9-CM	Diagnosis
807.01	Closed fracture of one rib	ICD-9-CM	Diagnosis
807.02	Closed fracture of two ribs	ICD-9-CM	Diagnosis
807.03	Closed fracture of three ribs	ICD-9-CM	Diagnosis
807.04	Closed fracture of four ribs	ICD-9-CM	Diagnosis
807.05	Closed fracture of five ribs	ICD-9-CM	Diagnosis
807.06	Closed fracture of six ribs	ICD-9-CM	Diagnosis
807.07	Closed fracture of seven ribs	ICD-9-CM	Diagnosis
807.08	Closed fracture of eight or more ribs	ICD-9-CM	Diagnosis
807.09	Closed fracture of multiple ribs, unspecified	ICD-9-CM	Diagnosis
807.1	Open fracture of rib(s)	ICD-9-CM	Diagnosis
807.10	Open fracture of rib(s), unspecified	ICD-9-CM	Diagnosis
807.11	Open fracture of one rib	ICD-9-CM	Diagnosis
807.12	Open fracture of two ribs	ICD-9-CM	Diagnosis
807.13	Open fracture of three ribs	ICD-9-CM	Diagnosis
807.14	Open fracture of four ribs	ICD-9-CM	Diagnosis
	Open fracture of five ribs	ICD-9-CM	Diagnosis
807.15	Open indetale of internos		
	Open fracture of six ribs	ICD-9-CM	Diagnosis
807.16	•		
807.16 807.17	Open fracture of six ribs	ICD-9-CM	Diagnosis
807.15 807.16 807.17 807.18 807.19	Open fracture of six ribs Open fracture of seven ribs	ICD-9-CM ICD-9-CM	Diagnosis Diagnosis Diagnosis Diagnosis
807.16 807.17 807.18	Open fracture of six ribs Open fracture of seven ribs Open fracture of eight or more ribs	ICD-9-CM ICD-9-CM ICD-9-CM	Diagnosis Diagnosis


			Code
Code	Description	Code Type	Category
810.00	Unspecified part of closed fracture of clavicle	ICD-9-CM	Diagnosis
810.01	Closed fracture of sternal end of clavicle	ICD-9-CM	Diagnosis
810.02	Closed fracture of shaft of clavicle	ICD-9-CM	Diagnosis
810.03	Closed fracture of acromial end of clavicle	ICD-9-CM	Diagnosis
810.1	Open fracture of clavicle	ICD-9-CM	Diagnosis
810.10	Unspecified part of open fracture of clavicle	ICD-9-CM	Diagnosis
810.11	Open fracture of sternal end of clavicle	ICD-9-CM	Diagnosis
810.12	Open fracture of shaft of clavicle	ICD-9-CM	Diagnosis
810.13	Open fracture of acromial end of clavicle	ICD-9-CM	Diagnosis
813	Fracture of radius and ulna	ICD-9-CM	Diagnosis
813.0	Closed fracture of upper end of radius and ulna	ICD-9-CM	Diagnosis
813.00	Unspecified fracture of radius and ulna, upper end of forearm, closed	ICD-9-CM	Diagnosis
813.01	Closed fracture of olecranon process of ulna	ICD-9-CM	Diagnosis
813.02	Closed fracture of coronoid process of ulna	ICD-9-CM	Diagnosis
813.03	Closed Monteggia's fracture	ICD-9-CM	Diagnosis
813.04	Other and unspecified closed fractures of proximal end of ulna (alone)	ICD-9-CM	Diagnosis
813.05	Closed fracture of head of radius	ICD-9-CM	Diagnosis
813.06	Closed fracture of neck of radius	ICD-9-CM	Diagnosis
813.07	Other and unspecified closed fractures of proximal end of radius (alone)	ICD-9-CM	Diagnosis
813.08	Closed fracture of radius with ulna, upper end (any part)	ICD-9-CM	Diagnosis
813.1	Open fracture of upper end of radius and ulna	ICD-9-CM	Diagnosis
813.10	Unspecified open fracture of upper end of forearm	ICD-9-CM	Diagnosis
813.11	Open fracture of olecranon process of ulna	ICD-9-CM	Diagnosis
813.12	Open fracture of coronoid process of ulna	ICD-9-CM	Diagnosis
813.13	Open Monteggia's fracture	ICD-9-CM	Diagnosis
813.14	Other and unspecified open fractures of proximal end of ulna (alone)	ICD-9-CM	Diagnosis
813.15	Open fracture of head of radius	ICD-9-CM	Diagnosis
813.16	Open fracture of neck of radius	ICD-9-CM	Diagnosis
813.17	Other and unspecified open fractures of proximal end of radius (alone)	ICD-9-CM	Diagnosis
813.18	Open fracture of radius with ulna, upper end (any part)	ICD-9-CM	Diagnosis
813.2	Closed fracture of shaft of radius and ulna	ICD-9-CM	Diagnosis
813.20	Unspecified closed fracture of shaft of radius or ulna	ICD-9-CM	Diagnosis
813.21	Closed fracture of shaft of radius (alone)	ICD-9-CM	Diagnosis
813.22	Closed fracture of shaft of ulna (alone)	ICD-9-CM	Diagnosis
813.23	Closed fracture of shaft of radius with ulna	ICD-9-CM	Diagnosis
813.3	Open fracture of shaft of radius and ulna	ICD-9-CM	Diagnosis
813.30	Unspecified open fracture of shaft of radius or ulna	ICD-9-CM	Diagnosis
813.31	Open fracture of shaft of radius (alone)	ICD-9-CM	Diagnosis
813.32	Open fracture of shaft of ulna (alone)	ICD-9-CM	Diagnosis
813.33	Open fracture of shaft of radius with ulna	ICD-9-CM	Diagnosis
813.4	Closed fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.40	Unspecified closed fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.41	Closed Colles' fracture	ICD-9-CM	Diagnosis
813.42	Other closed fractures of distal end of radius (alone)	ICD-9-CM	Diagnosis
813.43	Closed fracture of distal end of ulna (alone)	ICD-9-CM	Diagnosis
	· · ·		-



			Code
Code	Description	Code Type	Category
813.44	Closed fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.45	Torus fracture of radius (alone)	ICD-9-CM	Diagnosis
813.46	Torus fracture of ulna (alone)	ICD-9-CM	Diagnosis
813.47	Torus fracture of radius and ulna	ICD-9-CM	Diagnosis
813.5	Open fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.50	Unspecified open fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.51	Open Colles' fracture	ICD-9-CM	Diagnosis
813.52	Other open fractures of distal end of radius (alone)	ICD-9-CM	Diagnosis
813.53	Open fracture of distal end of ulna (alone)	ICD-9-CM	Diagnosis
813.54	Open fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.8	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.80	Closed fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.81	Closed fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.82	Closed fracture of unspecified part of ulna (alone)	ICD-9-CM	Diagnosis
813.83	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.9	Open fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
813.90	Open fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.91	Open fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.92	Open fracture of unspecified part of ulna (alone)	ICD-9-CM	Diagnosis
813.93	Open fracture of unspecified part of radius with ulna	ICD-9-CM	Diagnosis
820	Fracture of neck of femur	ICD-9-CM	Diagnosis
820.0	Closed transcervical fracture	ICD-9-CM	Diagnosis
820.00	Closed fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.02	Closed fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.03	Closed fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.09	Other closed transcervical fracture of femur	ICD-9-CM	Diagnosis
820.1	Open transcervical fracture	ICD-9-CM	Diagnosis
820.10	Open fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.12	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.13	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.19	Other open transcervical fracture of femur	ICD-9-CM	Diagnosis
820.2	Closed pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.20	Closed fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.21	Closed fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.22	Closed fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.3	Open pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.31	Open fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
820.32	Open fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.8	Closed fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
820.9	Open fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
78.11	Application of external fixator device, scapula, clavicle, and thorax [ribs and sternum]	ICD-9-CM	Procedure
78.13	Application of external fixator device, radius and ulna	ICD-9-CM	Procedure



			Code
Code	Description	Code Type	Category
78.15	Application of external fixator device, femur	ICD-9-CM	Procedure
78.41	Other repair or plastic operations on scapula, clavicle, and thorax (ribs and sternum)	ICD-9-CM	Procedure
78.43	Other repair or plastic operations on radius and ulna	ICD-9-CM	Procedure
78.45	Other repair or plastic operations on femur	ICD-9-CM	Procedure
78.51	Internal fixation of scapula, clavicle, and thorax (ribs and sternum) without fracture reduction	ICD-9-CM	Procedure
78.53	Internal fixation of radius and ulna without fracture reduction	ICD-9-CM	Procedure
78.55	Internal fixation of femur without fracture reduction	ICD-9-CM	Procedure
78.61	Removal of implanted device from scapula, clavicle, and thorax (ribs and sternum)	ICD-9-CM	Procedure
78.63	Removal of implanted device from radius and ulna	ICD-9-CM	Procedure
78.65	Removal of implanted device from femur	ICD-9-CM	Procedure
79.02	Closed reduction of fracture of radius and ulna without internal fixation	ICD-9-CM	Procedure
79.05	Closed reduction of fracture of femur without internal fixation	ICD-9-CM	Procedure
79.12	Closed reduction of fracture of radius and ulna with internal fixation	ICD-9-CM	Procedure
79.15	Closed reduction of fracture of femur with internal fixation	ICD-9-CM	Procedure
79.22	Open reduction of fracture of radius and ulna without internal fixation	ICD-9-CM	Procedure
79.25	Open reduction of fracture of femur without internal fixation	ICD-9-CM	Procedure
79.32	Open reduction of fracture of radius and ulna with internal fixation	ICD-9-CM	Procedure
79.35	Open reduction of fracture of femur with internal fixation	ICD-9-CM	Procedure
79.62	Debridement of open fracture of radius and ulna	ICD-9-CM	Procedure
79.65	Debridement of open fracture of femur	ICD-9-CM	Procedure
21800	Closed treatment of broken rib	CPT-4	Procedure
21805	Open treatment of broken rib	CPT-4	Procedure
21810	Treatment of broken rib	CPT-4	Procedure
21812	Open treatment of broken ribs with insertion of hardware	CPT-4	Procedure
21813	Open treatment of broken ribs with insertion of hardware	CPT-4	Procedure
23485	Incision to repair collar bone for nonunion of fracture with bone graft	CPT-4	Procedure
23500	Closed treatment of collar bone fracture	CPT-4	Procedure
23505	Closed treatment of collar bone broken with manipulation	CPT-4	Procedure
23515	Open treatment of collar bone broken	CPT-4	Procedure
24586	Open treatment of broken and/or dislocated upper or lower arm bones at elbow	CPT-4	Procedure
24587	Open treatment of broken and/or dislocated upper or lower arm bones at elbow with implant	CPT-4	Procedure
24620	Closed treatment of broken and dislocated forearm bones at elbow with manipulation	CPT-4	Procedure
24635	Open treatment of broken and dislocated forearm bones at elbow	CPT-4	Procedure
24650	Closed treatment of broken forearm bone at elbow	CPT-4	Procedure
24655	Closed treatment of broken forearm bone at elbow with manipulation	CPT-4	Procedure
24665	Open treatment of broken forearm bone at elbow	CPT-4	Procedure
24666	Open treatment of broken forearm bone at elbow with prosthetic replacement	CPT-4	Procedure
24670	Closed treatment of broken forearm bone at elbow	CPT-4	Procedure
24675	Closed treatment of broken forearm bone at elbow with manipulation	CPT-4	Procedure
24685	Open treatment of broken forearm bone at elbow	CPT-4	Procedure
25500	Closed treatment of broken forearm bone	CPT-4	Procedure
25505	Closed treatment of broken forearm bone with manipulation	CPT-4	Procedure
25515	Open treatment of broken forearm bone	CPT-4	Procedure



<b>~</b> .		<u> </u>	Code
Code	Description	Code Type	Category
25520	Closed treatment of broken forearm and dislocated wrist bones	CPT-4	Procedure
25525	Open treatment of broken forearm bone and closed treatment of joint dislocation	CPT-4	Procedure
25526	Open treatment of broken forearm bone	CPT-4	Procedure
25530	Closed treatment of broken forearm bone	CPT-4	Procedure
25535	Closed treatment of broken forearm bone with manipulation	CPT-4	Procedure
25545	Open treatment of broken forearm bone	CPT-4	Procedure
25560	Closed treatment of broken forearm bones	CPT-4	Procedure
25565	Closed treatment of broken forearm bones with manipulation	CPT-4	Procedure
25574	Open treatment of broken forearm bones	CPT-4	Procedure
25575	Open treatment of broken forearm bones	CPT-4	Procedure
25600	Closed treatment of broken forearm bones	CPT-4	Procedure
25605	Closed treatment of broken or growth plate separate of forearm bone at wrist with manipulation	CPT-4	Procedure
25606	Insertion of hardware to lower forearm bone broken or growth plate separation, accessed through the skin	CPT-4	Procedure
25607	Open treatment of broken or lower forearm bone or growth plate separation with insertion of hardware	CPT-4	Procedure
25608	Open treatment of broken of lower forearm or growth plate separation with insertion of hardware of 2 fragments	CPT-4	Procedure
25609	Open treatment of broken of lower forearm or growth plate separation with insertion of hardware of 3 or more fragments	CPT-4	Procedure
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	CPT-4	Procedure
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	CPT-4	Procedure
25650	Closed treatment of broken forearm bone at wrist bone	CPT-4	Procedure
25651	Insertion of hardware broken bone of forearm at wrist, accessed through the skin	CPT-4	Procedure
25652	Open treatment of broken wrist	CPT-4	Procedure
27230	Closed treatment of upper thigh bone fracture	CPT-4	Procedure
27232	Closed treatment of thigh bone fracture with manipulation	CPT-4	Procedure
27235	Insertion of hardware to broken thigh bone, accessed through the skin	CPT-4	Procedure
27236	Open treatment of broken thigh bone with insertion of hardware or prosthetic replacement	CPT-4	Procedure
27238	Closed treatment of fracture below neck of upper thigh bone	CPT-4	Procedure
27240	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedure
27244	Surgical treatment of broken thigh bone	CPT-4	Procedure
27245	Surgical treatment of broken thigh bone	CPT-4	Procedure
27246	Closed treatment of broken thigh bone	CPT-4	Procedure
27248	Open treatment of broken thigh bone	CPT-4	Procedure
27254	Open treatment of fracture and traumatic dislocation of hip socket and thigh bone	CPT-4	Procedure
27267	Closed treatment of broken thigh bone	CPT-4	Procedure
27268	Closed treatment of fracture of upper portion and head of thigh bone with manipulation	CPT-4 CPT-4	Procedure
27269	Open treatment of fracture of thigh bone	CPT-4	Procedure



			Code
Code	Description	Code Type	Category
27500	Closed treatment of thigh bone fracture	CPT-4	Procedure
27501	Closed treatment of broken thigh bone	CPT-4	Procedure
27502	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedur
27503	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedur
27506	Open treatment of broken thigh bone	CPT-4	Procedur
27507	Open treatment of broken thigh bone	CPT-4	Procedur
27508	Closed treatment of broken thigh bone	CPT-4	Procedur
7509	Insertion of hardware to stabilize broken thigh bone or separated growth plate, accessed through the skin	CPT-4	Procedur
27510	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedur
7511	Open treatment of broken thigh bone	CPT-4	Procedur
27513	Open treatment of broken thigh bone	CPT-4	Procedur
27514	Open treatment of broken thigh bone	CPT-4	Procedur
	Heart Failure		
02.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM	Diagnosi
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosi
02.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnos
04.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnos
04.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnos
04.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnos
04.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosi
04.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosi
04.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnos
28	Heart failure	ICD-9-CM	Diagnosi
28.0	Congestive heart failure, unspecified	ICD-9-CM	Diagnos
28.1	Left heart failure	ICD-9-CM	Diagnos
28.2	Systolic heart failure	ICD-9-CM	Diagnos
28.20	Unspecified systolic heart failure	ICD-9-CM	Diagnos
28.21	Acute systolic heart failure	ICD-9-CM	Diagnos
28.22	Chronic systolic heart failure	ICD-9-CM	Diagnos
28.23	Acute on chronic systolic heart failure	ICD-9-CM	Diagnos
28.3	Diastolic heart failure	ICD-9-CM	Diagnos
28.30	Unspecified diastolic heart failure	ICD-9-CM	Diagnos
28.31	Acute diastolic heart failure	ICD-9-CM	Diagnos
28.32	Chronic diastolic heart failure	ICD-9-CM	Diagnos
28.33	Acute on chronic diastolic heart failure	ICD-9-CM	Diagnos
28.4	Combined systolic and diastolic heart failure	ICD-9-CM	Diagnos
+20.4 128.40	Unspecified combined systolic and diastolic heart failure	ICD-9-CM	Diagnos
428.40 428.41	Acute combined systolic and diastolic heart failure	ICD-9-CM	Diagnos
+20.41	Acute combined systemic and diastolic near craftere	100-9-0101	Diagno



Code			Code
Jue	Description	Code Type	Category
128.42	Chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
28.43	Acute on chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosi
28.9	Unspecified heart failure	ICD-9-CM	Diagnosi
7.66	Insertion of implantable heart assist system	ICD-9-CM	Procedur
3980	Removal of ventricular assist device, implantable intracorporeal, single ventricle	CPT-4	Procedur
2970	Cardioassist-method of circulatory assist; internal	CPT-4	Procedur
2971	Cardioassist-method of circulatory assist; external	CPT-4	Procedur
58027	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or ARB) therapy	HCPCS	Procedur
58028	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be on either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or ARB) therapy	HCPCS	Procedur
58029	Clinician documented that heart failure patient was not an eligible candidate for either angiotensin-converting enzyme-inhibitor or angiotensin-receptor blocker (ACE-1 or ARB) therapy measure	HCPCS	Procedur
68030	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on beta-blocker therapy	HCPCS	Procedui
68031	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be on beta-blocker therapy	HCPCS	Procedu
68032	Clinician documented that heart failure patient was not eligible candidate for beta-blocker therapy measure	HCPCS	Procedu
68184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible candidate for warfarin therapy measure	HCPCS	Procedu
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible candidate for warfarin therapy measure	HCPCS	Procedu
	Hospitalized Bleeding		
80.0	Iron deficiency anemia secondary to blood loss (chronic)	ICD-9-CM	Diagnos
85.1	Acute posthemorrhagic anemia	ICD-9-CM	Diagnosi
85.9	Unspecified anemia	ICD-9-CM	Diagnos
23.0	Hemopericardium	ICD-9-CM	Diagnos
30	Subarachnoid hemorrhage	ICD-9-CM	Diagnos
31	Intracerebral hemorrhage	ICD-9-CM	Diagnosi
32.0	Nontraumatic extradural hemorrhage	ICD-9-CM	Diagnos
32.1	Subdural hemorrhage	ICD-9-CM	Diagnos
32.9	Unspecified intracranial hemorrhage	ICD-9-CM	Diagnos
55	Hemorrhoids	ICD-9-CM	Diagnos
55.0	Internal hemorrhoids without mention of complication	ICD-9-CM	Diagnos
55.1	Internal thrombosed hemorrhoids	ICD-9-CM	Diagnos
55.2	Internal hemorrhoids with other complication	ICD-9-CM	Diagnos
	External hemorrhoids without mention of complication	ICD-9-CM	Diagnos
	·		-
155.3	External thrombosed hemorrhoids	ICD-9-CM	Diagnos
155.3 155.4		ICD-9-CM ICD-9-CM	-
155.3 155.4 155.5 155.6	External thrombosed hemorrhoids External hemorrhoids with other complication Unspecified hemorrhoids without mention of complication		Diagnos Diagnos Diagnos



		<b>- -</b> -	Code
Code	Description	Code Type	Category
455.8	Unspecified hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.9	Residual hemorrhoidal skin tags	ICD-9-CM	Diagnosis
456.0	Esophageal varices with bleeding	ICD-9-CM	Diagnosis
456.20	Esophageal varices with bleeding in diseases classified elsewhere	ICD-9-CM	Diagnosis
459.0	Unspecified hemorrhage	ICD-9-CM	Diagnosis
530.1	Esophagitis	ICD-9-CM	Diagnosis
530.10	Unspecified esophagitis	ICD-9-CM	Diagnosis
530.11	Reflux esophagitis	ICD-9-CM	Diagnosis
530.12	Acute esophagitis	ICD-9-CM	Diagnosis
530.13	Eosinophilic esophagitis	ICD-9-CM	Diagnosis
530.19	Other esophagitis	ICD-9-CM	Diagnosis
530.7	Gastroesophageal laceration-hemorrhage syndrome	ICD-9-CM	Diagnosis
530.82	Esophageal hemorrhage	ICD-9-CM	Diagnosis
531.0	Acute gastric ulcer with hemorrhage	ICD-9-CM	Diagnosis
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.1	Acute gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.10	Acute gastric ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.11	Acute gastric ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
531.2	Acute gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.30	Acute gastric ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
531.31	Acute gastric ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
531.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-9-CM	Diagnosis
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.5	Chronic or unspecified gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.51	Chronic or unspecified gastric ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.70	Chronic gastric ulcer without mention of hemorrhage, perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.71	Chronic gastric ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
531.9	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.90	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
531.91	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
532.0	Acute duodenal ulcer with hemorrhage	ICD-9-CM	Diagnosis
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
532.01	Acute duodenal ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
532.1	Acute duodenal ulcer with perforation	ICD-9-CM	Diagnosis
532.10	Acute duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.11	Acute duodenal ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
532.2	Acute duodenal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosi
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosi
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosi
532.30	Acute duodenal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosi
532.31	Acute duodenal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosi
532.4	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-9-CM	Diagnosi
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosi
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosi
532.5	Chronic or unspecified duodenal ulcer with perforation	ICD-9-CM	Diagnosi
532.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosi
532.51	Chronic or unspecified duodenal ulcer with perforation and obstruction	ICD-9-CM	Diagnosi
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosi
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention	ICD-9-CM	Diagnosi
	of obstruction		
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosi
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosi
532.70	Chronic duodenal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosi
532.71	Chronic duodenal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosi
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosi
532.90	Duodenal ulcer, unspecified as acute or chronic, without hemorrhage, perforation, or	ICD-9-CM	Diagnosi
532.91	obstruction Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosi
	perforation, with obstruction		-
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM	Diagnosi
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosi
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM	Diagnosi
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosi
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM	Diagnosi
533.11	Acute peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM	Diagnosi
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM	Diagnosi
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosi
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosi
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM	Diagnosi
533.30	Acute peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosi



		<b>.</b>	Code
Code	Description	Code Type	Category
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with obstruction	ICD-9-CM	Diagnosis
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM	Diagnosis
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.50	Chronic or unspecified peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
533.51	Chronic or unspecified peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM	Diagnosis
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM	Diagnosis
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
533.70	Chronic peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
533.71	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
533.90	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
533.91	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
534.0	Acute gastrojejunal ulcer with hemorrhage	ICD-9-CM	Diagnosis
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
534.10	Acute gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.11	Acute gastrojejunal ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.30	Acute gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
534.31	Acute gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-9-CM	Diagnosis
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
534.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.51	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
534.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.70	Chronic gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
534.71	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
534.9	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
534.90	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
534.91	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
535.00	Acute gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.01	Acute gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.10	Atrophic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.11	Atrophic gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	ICD-9-CM	Diagnosis
535.21	Gastric mucosal hypertrophy with hemorrhage	ICD-9-CM	Diagnosis
535.30	Alcoholic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.31	Alcoholic gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.40	Other specified gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.41	Other specified gastritis with hemorrhage	ICD-9-CM	Diagnosis
535.50	Unspecified gastritis and gastroduodenitis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	ICD-9-CM	Diagnosis
535.60	Duodenitis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.61	Duodenitis with hemorrhage	ICD-9-CM	Diagnosis
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	ICD-9-CM	Diagnosis
562.00	Diverticulosis of small intestine (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.01	Diverticulitis of small intestine (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.02	Diverticulosis of small intestine with hemorrhage	ICD-9-CM	Diagnosis
562.03	Diverticulitis of small intestine with hemorrhage	ICD-9-CM	Diagnosis
562.10	Diverticulosis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.11	Diverticulitis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
562.12	Diverticulosis of colon with hemorrhage	ICD-9-CM	Diagnosis
562.13	Diverticulitis of colon with hemorrhage	ICD-9-CM	Diagnosis
568.81	Hemoperitoneum (nontraumatic)	ICD-9-CM	Diagnosis
569.3	Hemorrhage of rectum and anus	ICD-9-CM	Diagnosis
569.85	Angiodysplasia of intestine with hemorrhage	ICD-9-CM	Diagnosis
578.0	Hematemesis	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
578.1	Blood in stool	ICD-9-CM	Diagnosis
578.9	Hemorrhage of gastrointestinal tract, unspecified	ICD-9-CM	Diagnosis
593.81	Vascular disorders of kidney	ICD-9-CM	Diagnosis
599.7	Hematuria	ICD-9-CM	Diagnosis
599.70	Hematuria, unspecified	ICD-9-CM	Diagnosis
599.71	Gross hematuria	ICD-9-CM	Diagnosis
599.72	Microscopic hematuria	ICD-9-CM	Diagnosis
623.8	Other specified noninflammatory disorder of vagina	ICD-9-CM	Diagnosis
626.2	Excessive or frequent menstruation	ICD-9-CM	Diagnosis
626.6	Metrorrhagia	ICD-9-CM	Diagnosis
719.1	Hemarthrosis	ICD-9-CM	Diagnosis
719.10	Hemarthrosis, site unspecified	ICD-9-CM	Diagnosis
719.11	Hemarthrosis, shoulder region	ICD-9-CM	Diagnosis
719.12	Hemarthrosis, upper arm	ICD-9-CM	Diagnosis
719.13	Hemarthrosis, forearm	ICD-9-CM	Diagnosis
719.14	Hemarthrosis, hand	ICD-9-CM	Diagnosis
719.15	Hemarthrosis, pelvic region and thigh	ICD-9-CM	Diagnosis
719.16	Hemarthrosis, lower leg	ICD-9-CM	Diagnosis
719.17	Hemarthrosis, ankle and foot	ICD-9-CM	Diagnosis
719.18	Hemarthrosis, other specified site	ICD-9-CM	Diagnosis
719.19	Hemarthrosis, multiple sites	ICD-9-CM	Diagnosis
784.7	Epistaxis	ICD-9-CM	Diagnosis
784.8	Hemorrhage from throat	ICD-9-CM	Diagnosis
786.3	Hemoptysis	ICD-9-CM	Diagnosis
790.92	Abnormal coagulation profile	ICD-9-CM	Diagnosis
852.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	ICD-9-CM	Diagnosis
852.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosis
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosis
852.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM	Diagnosis
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosis
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosis
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosis
352.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	ICD-9-CM	Diagnosis
352.23	Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosis
352.24	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	ICD-9-CM	Diagnosis
352.25	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	ICD-9-CM	Diagnosis
352.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
352.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosi
52.4	Extradural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM	Diagnosi
52.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM	Diagnosi
352.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM	Diagnosi
352.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM	Diagnosi
352.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM	Diagnosi
52.44	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	ICD-9-CM	Diagnosi
352.45	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	ICD-9-CM	Diagnosi
352.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosi
52.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM	Diagnosi
353.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound	ICD-9-CM	Diagnosi
	Hypercholesterolemia		
272.0	Pure hypercholesterolemia	ICD-9-CM	Diagnosi
272.2	Mixed hyperlipidemia	ICD-9-CM	Diagnosi
401	Hypertension		District
401	Essential hypertension	ICD-9-CM	Diagnosi
401.0	Essential hypertension, malignant	ICD-9-CM	Diagnosi



			Code
Code	Description	Code Type	Category
401.1	Essential hypertension, benign	ICD-9-CM	Diagnosis
401.9	Unspecified essential hypertension	ICD-9-CM	Diagnosis
402	Hypertensive heart disease	ICD-9-CM	Diagnosis
402.0	Malignant hypertensive heart disease	ICD-9-CM	Diagnosis
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.1	Benign hypertensive heart disease	ICD-9-CM	Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
102.9	Unspecified hypertensive heart disease	ICD-9-CM	Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnosis
403	Hypertensive chronic kidney disease	ICD-9-CM	Diagnosis
403.0	Hypertensive chronic kidney disease, malignant	ICD-9-CM	Diagnosis
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
403.1	Hypertensive chronic kidney disease, benign	ICD-9-CM	Diagnosis
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
03.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
103.9	Hypertensive chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
03.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosi
103.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
104	Hypertensive heart and chronic kidney disease	ICD-9-CM	Diagnosis
104.0	Hypertensive heart and chronic kidney disease, malignant	ICD-9-CM	Diagnosis
104.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
104.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
04.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosi
04.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosi
04.1	Hypertensive heart and chronic kidney disease, benign	ICD-9-CM	Diagnosis
04.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
104.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.9	Hypertensive heart and chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM	Diagnosis
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	ICD-9-CM	Diagnosis
405	Secondary hypertension	ICD-9-CM	Diagnosis
405.0	Secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.01	Secondary renovascular hypertension, malignant	ICD-9-CM	Diagnosis
405.09	Other secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.1	Secondary hypertension, benign	ICD-9-CM	Diagnosis
405.11	Secondary renovascular hypertension, benign	ICD-9-CM	Diagnosis
105.19	Other secondary hypertension, benign	ICD-9-CM	Diagnosis
405.9	Unspecified secondary hypertension, unspecified	ICD-9-CM	Diagnosis
105.91	Secondary renovascular hypertension, unspecified	ICD-9-CM	Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM	Diagnosis
997.91	Hypertension	ICD-9-CM	Diagnosis
	Nicotine Dependency		
305.1	Nondependent tobacco use disorder	ICD-9-CM	Diagnosis
989.84	Toxic effect of tobacco	ICD-9-CM	Diagnosis
/15.82	Personal history of tobacco use, presenting hazards to health	ICD-9-CM	Diagnosis
99406	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	CPT-4	Procedure
99407	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	CPT-4	Procedure
C9801	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	HCPCS	Procedure
C9802	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes	HCPCS	Procedure
D1320	tobacco counseling for the control and prevention of oral disease	HCPCS	Procedure
G0375	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	HCPCS	Procedure
G0376	Smoking and tobacco use cessation counseling visit; intensive, greater than 10 minutes	HCPCS	Procedure
G0436	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intermediate, greater than 3 minutes, up to 10 minutes	HCPCS	Procedure
G0437	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, greater than 10 minutes	HCPCS	Procedure
G8093	Newly diagnosed chronic obstructive pulmonary disease (COPD) patient documented to have received smoking cessation intervention, within 3 months of diagnosis	HCPCS	Procedure



			Code
Code	Description	Code Type	Category
G8094	Newly diagnosed chronic obstructive pulmonary disease (COPD) patient not documented	HCPCS	Procedure
	to have received smoking cessation intervention, within 3 months of diagnosis		
G8402	Tobacco (smoke) use cessation intervention, counseling	HCPCS	Procedure
G8403	Tobacco (smoke) use cessation intervention not counseled	HCPCS	Procedure
G8453	Tobacco use cessation intervention, counseling	HCPCS	Procedure
G8454	Tobacco use cessation intervention not counseled, reason not specified	HCPCS	Procedure
G8455	Current tobacco smoker	HCPCS	Procedure
G8690	Current tobacco smoker or current exposure to secondhand smoke	HCPCS	Procedure
G9016	Smoking cessation counseling, individual, in the absence of or in addition to any other	HCPCS	Procedure
	evaluation and management service, per session (6-10 minutes) [demo project code only]		
G9276	Documentation that patient is a current tobacco user	HCPCS	Procedure
G9458	Patient documented as tobacco user and received tobacco cessation intervention (must	HCPCS	Procedure
	include at least one of the following: advice given to quit smoking or tobacco use,		
	counseling on the benefits of quitting smoking or tobacco use, assistance with or referral		
	to external smoking or tobacco cessation support programs, or current enrollment in		
	smoking or tobacco use cessation program) if identified as a tobacco user		
	Obesity		
278.0	Overweight and obesity	ICD-9-CM	Diagnosis
278.00	Obesity, unspecified	ICD-9-CM	Diagnosis
278.01	Morbid obesity	ICD-9-CM	Diagnosis
278.02	Overweight	ICD-9-CM	Diagnosis

278.01	worbid obesity	ICD-9-CIVI	Diagnosis
278.02	Overweight	ICD-9-CM	Diagnosis
278.1	Localized adiposity	ICD-9-CM	Diagnosis
V45.86	Bariatric surgery status	ICD-9-CM	Diagnosis
V85.3	Body Mass Index between 30-39, adult	ICD-9-CM	Diagnosis
V85.30	Body Mass Index 30.0-30.9, adult	ICD-9-CM	Diagnosis
V85.31	Body Mass Index 31.0-31.9, adult	ICD-9-CM	Diagnosis
V85.32	Body Mass Index 32.0-32.9, adult	ICD-9-CM	Diagnosis
V85.33	Body Mass Index 33.0-33.9, adult	ICD-9-CM	Diagnosis
V85.34	Body Mass Index 34.0-34.9, adult	ICD-9-CM	Diagnosis
V85.35	Body Mass Index 35.0-35.9, adult	ICD-9-CM	Diagnosis
V85.36	Body Mass Index 36.0-36.9, adult	ICD-9-CM	Diagnosis
V85.37	Body Mass Index 37.0-37.9, adult	ICD-9-CM	Diagnosis
V85.38	Body Mass Index 38.0-38.9, adult	ICD-9-CM	Diagnosis
V85.39	Body Mass Index 39.0-39.9, adult	ICD-9-CM	Diagnosis
V85.4	Body Mass Index 40 and over, adult	ICD-9-CM	Diagnosis
44.31	High gastric bypass	ICD-9-CM	Procedure
44.68	Laparoscopic gastroplasty	ICD-9-CM	Procedure
44.95	Laparoscopic gastric restrictive procedure	ICD-9-CM	Procedure
	Other Ischemic Heart Disease		
411	Other acute and subacute forms of ischemic heart disease	ICD-9-CM	Diagnosis
411.0	Postmyocardial infarction syndrome	ICD-9-CM	Diagnosis
411.1	Intermediate coronary syndrome	ICD-9-CM	Diagnosis
411.8	Other acute and subacute forms of ischemic heart disease	ICD-9-CM	Diagnosis



			Code
Code	Description	Code Type	Category
411.81	Acute coronary occlusion without myocardial infarction	ICD-9-CM	Diagnosis
411.89	Other acute and subacute form of ischemic heart disease	ICD-9-CM	Diagnosis
113	Angina pectoris	ICD-9-CM	Diagnosis
13.0	Angina decubitus	ICD-9-CM	Diagnosis
13.1	Prinzmetal angina	ICD-9-CM	Diagnosis
13.9	Other and unspecified angina pectoris	ICD-9-CM	Diagnosis
14	Other forms of chronic ischemic heart disease	ICD-9-CM	Diagnosi
14.0	Coronary atherosclerosis	ICD-9-CM	Diagnosi
14.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	ICD-9-CM	Diagnosi
14.01	Coronary atherosclerosis of native coronary artery	ICD-9-CM	Diagnosi
14.02	Coronary atherosclerosis of autologous vein bypass graft	ICD-9-CM	Diagnosi
14.03	Coronary atherosclerosis of nonautologous biological bypass graft	ICD-9-CM	Diagnosi
14.04	Coronary atherosclerosis of artery bypass graft	ICD-9-CM	Diagnosi
14.05	Coronary atherosclerosis of unspecified type of bypass graft	ICD-9-CM	Diagnosi
14.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	ICD-9-CM	Diagnosi
14.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	ICD-9-CM	Diagnosi
14.1	Aneurysm and dissection of heart	ICD-9-CM	Diagnosi
14.10	Aneurysm of heart	ICD-9-CM	Diagnosi
14.11	Aneurysm of coronary vessels	ICD-9-CM	Diagnos
14.12	Dissection of coronary artery	ICD-9-CM	Diagnos
14.19	Other aneurysm of heart	ICD-9-CM	Diagnos
14.2	Chronic total occlusion of coronary artery	ICD-9-CM	Diagnos
14.3	Coronary atherosclerosis due to lipid rich plaque	ICD-9-CM	Diagnos
14.4	Coronary atherosclerosis due to calcified coronary lesion	ICD-9-CM	Diagnos
14.8	Other specified forms of chronic ischemic heart disease	ICD-9-CM	Diagnos
14.9	Unspecified chronic ischemic heart disease	ICD-9-CM	Diagnos
29.2	Unspecified cardiovascular disease	ICD-9-CM	Diagnos
29.5	Rupture of chordae tendineae	ICD-9-CM	Diagnos
29.6	Rupture of papillary muscle	ICD-9-CM	Diagnosi
29.7	Certain sequelae of myocardial infarction, not elsewhere classified	ICD-9-CM	Diagnosi
29.71	Acquired cardiac septal defect	ICD-9-CM	Diagnosi
29.79	Other certain sequelae of myocardial infarction, not elsewhere classified	ICD-9-CM	Diagnosi
29.9	Unspecified heart disease	ICD-9-CM	Diagnosi
58033	Prior myocardial infarction, coronary artery disease patient documented to be on beta-	HCPCS	Procedur
0000	blocker therapy	ner es	Troccuu
68034	Prior myocardial infarction, coronary artery disease patient not documented to be on beta-	HCPCS	Procedur
18034	blocker therapy	Heres	FIOCEUUI
68035	Clinician documented that prior myocardial infarction, coronary artery disease patient was not eligible candidate for beta-blocker therapy measure	HCPCS	Procedu
8036	Coronary artery disease patient documented to be on antiplatelet therapy	HCPCS	Procedur
68037	Coronary artery disease patient not documented to be on antiplatelet therapy	HCPCS	Procedui
68038	Clinician documented that coronary artery disease patient was not eligible candidate for antiplatelet therapy measure	HCPCS	Procedu
68039	Coronary artery disease patient with low-density lipoprotein documented to be greater than 100 mg/dl	HCPCS	Procedu



			Code
Code	Description	Code Type	Category
G8040	Coronary artery disease patient with low-density lipoprotein documented to be less than or equal to 100 mg/dl	HCPCS	Procedure
G8041	Clinician documented that coronary artery disease patient was not eligible candidate for	HCPCS	Procedure
	low-density lipoprotein measure		
	Peptic Ulcer Disease		
531.0	Acute gastric ulcer with hemorrhage	ICD-9-CM	Diagnosis
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.1	Acute gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.10	Acute gastric ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.11	Acute gastric ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
531.2	Acute gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.30	Acute gastric ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
531.31	Acute gastric ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
531.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-9-CM	Diagnosis
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.5	Chronic or unspecified gastric ulcer with perforation	ICD-9-CM	Diagnosis
531.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.51	Chronic or unspecified gastric ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
531.7	Chronic gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
531.70	Chronic gastric ulcer without mention of hemorrhage, perforation, without mention of obstruction	ICD-9-CM	Diagnosis
531.71	Chronic gastric ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
532.0	Acute duodenal ulcer with hemorrhage	ICD-9-CM	Diagnosis
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
532.01	Acute duodenal ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
532.1	Acute duodenal ulcer with perforation	ICD-9-CM	Diagnosis
532.10	Acute duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.11	Acute duodenal ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
532.2	Acute duodenal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.30	Acute duodenal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
532.31	Acute duodenal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
532.4	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-9-CM	Diagnosis
52.4	entoine of unspecified dubuenal dicer with hemorinage		Diagnos



			Code
Code	Description	Code Type	Category
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
532.5	Chronic or unspecified duodenal ulcer with perforation	ICD-9-CM	Diagnosis
532.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.51	Chronic or unspecified duodenal ulcer with perforation and obstruction	ICD-9-CM	Diagnosis
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosis
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
532.70	Chronic duodenal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
532.71	Chronic duodenal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM	Diagnosis
33.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
33.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
33.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosi
33.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM	Diagnosi
33.11	Acute peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM	Diagnosi
33.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM	Diagnosi
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosi
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM	Diagnosis
533.30	Acute peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosi
33.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with obstruction	ICD-9-CM	Diagnosis
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM	Diagnosis
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
33.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
33.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosi
33.50	Chronic or unspecified peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM	Diagnosi
533.51	Chronic or unspecified peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM	Diagnosis
33.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM	Diagnosi
33.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosi
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosi
533.7	Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
533.70	Chronic peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosi



		<b>.</b> . –	Code
Code	Description	Code Type	Category
533.71	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosis
534.0	Acute gastrojejunal ulcer with hemorrhage	ICD-9-CM	Diagnosis
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosi
534.10	Acute gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosi
534.11	Acute gastrojejunal ulcer with perforation and obstruction	ICD-9-CM	Diagnosi
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnosi
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnosi
34.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosi
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosi
534.30	Acute gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosi
534.31	Acute gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnosi
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-9-CM	Diagnosi
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnos
34.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnos
34.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM	Diagnos
34.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnos
534.51	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	ICD-9-CM	Diagnos
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM	Diagnos
34.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	Diagnos
34.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnos
34.7	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnos
34.70	Chronic gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnos
34.71	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM	Diagnos
4.4	Control of hemorrhage and suture of ulcer of stomach or duodenum	ICD-9-CM	Diagnos
4.40	Suture of peptic ulcer, not otherwise specified	ICD-9-CM	Diagnos
4.41	Suture of gastric ulcer site	ICD-9-CM	Diagnos
4.42	Suture of duodenal ulcer site	ICD-9-CM	Diagnosi
	Stroke		
30	Subarachnoid hemorrhage	ICD-9-CM	Diagnos
31	Intracerebral hemorrhage	ICD-9-CM	Diagnos
133.01	Occlusion and stenosis of basilar artery with cerebral infarction	ICD-9-CM	Diagnos
133.11	Occlusion and stenosis of carotid artery with cerebral infarction	ICD-9-CM	Diagnos
133.21	Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM	Diagnos
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	ICD-9-CM	Diagnosi



33.8.1     Occlusion and stenosis of other specified precerebral artery with cerebral infarction     ICD-9-CM     Diagnos       33.9.1     Occlusion and stenosis of unspecified precerebral artery with cerebral infarction     ICD-9-CM     Diagnos       33.9.1     Cerebral thromosois with cerebral infarction     ICD-9-CM     Diagnos       34.11     Cerebral embolism with cerebral infarction     ICD-9-CM     Diagnos       34.91     Unspecified cerebral artery occlusion with cerebral infarction     ICD-9-CM     Diagnos       36     Acute, but ill-defined, cerebrovascular disease     ICD-9-CM     Diagnos       Syncope       80.2     Syncope and collapse     ICD-9-CM     Diagnos       Tarasient cerebral ischemia     ICD-9-CM     Diagnos       35.0     Basilar artery syndrome     ICD-9-CM     Diagnos       35.1     Vertebrolavian steal syndrome     ICD-9-CM     Diagnos       35.2     Subclavian steal syndrome     ICD-9-CM     Diagnos       35.3     Vertebrolavian steal syndrome     ICD-9-CM     Diagnos       35.4     Walker, rigid (pickup), adjustable or fixed height     HCPCS     Procedu				Code	
33.91 Occlusion and stenosis of unspecified precerebral artery with cerebral infarction ICD-9-CM Diagnos   34.01 Cerebral thrombosis with cerebral infarction ICD-9-CM Diagnos   34.11 Cerebral embolism with cerebral infarction ICD-9-CM Diagnos   34.91 Unspecified cerebral artery occlusion with cerebral infarction ICD-9-CM Diagnos   36 Acute, but ill-defined, cerebrovascular disease ICD-9-CM Diagnos   Syncope   Transient cerebral ischemia   Syncope and collapse   Transient cerebral ischemia   Syncope   CO-9-CM Diagnos   Syncope   CO-9-CM Diagnos <td col<="" th=""><th>Code</th><th>Description</th><th>Code Type</th><th>Category</th></td>	<th>Code</th> <th>Description</th> <th>Code Type</th> <th>Category</th>	Code	Description	Code Type	Category
34.01 Cerebral thrombosis with cerebral infarction ICD-9-CM Diagnos   34.11 Cerebral embolism with cerebral infarction ICD-9-CM Diagnos   34.91 Unspecified cerebral artery occlusion with cerebral infarction ICD-9-CM Diagnos   34.91 Unspecified cerebral artery occlusion with cerebral infarction ICD-9-CM Diagnos   Syncope   Syncope   Transient cerebral ischemia   Syncope   Syncope   Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"   Colspan="2"	433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis	
34.11   Cerebral embolism with cerebral infarction   ICD-9-CM   Diagnos     34.91   Unspecified cerebral artery occlusion with cerebral infarction   ICD-9-CM   Diagnos     36   Acute, but ill-defined, cerebrovascular disease   ICD-9-CM   Diagnos     Syncope     End CD-9-CM   Diagnos     Transient cerebral ischemia   ICD-9-CM   Diagnos     35.   Transient cerebral ischemia   ICD-9-CM   Diagnos     35.1   Vertebral artery syndrome   ICD-9-CM   Diagnos     35.2   Subclavian steal syndrome   ICD-9-CM   Diagnos     35.3   Vertebrobasilar artery syndrome   ICD-9-CM   Diagnos     35.4   Subclavian steal syndrome   ICD-9-CM   Diagnos     35.3   Vertebrobasilar artery syndrome   ICD-9-CM   Diagnos     35.4   Other specified transient cerebral ischemias   ICD-9-CM   Diagnos     35.3   Vertebrobasilar artery syndrome   ICD-9-CM   Diagnos     35.4   Other specified transient cerebral ischemia   ICD-9-CM   Diagnos     35.9   Unspecified transient cerebral ischemia   ICD-9-CM   Diag	433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM	Diagnosis	
34.91   Unspecified cerebral artery occlusion with cerebral infarction   ICD-9-CM   Diagnos     36   Acute, but ill-defined, cerebrovascular disease   ICD-9-CM   Diagnos     Syncope     Transient cerebral ischemia   ICD-9-CM   Diagnos     35.0   Basilar artery syndrome   ICD-9-CM   Diagnos     35.1   Vertebral artery syndrome   ICD-9-CM   Diagnos     35.2   Subclavian steal syndrome   ICD-9-CM   Diagnos     35.3   Vertebrobailar artery syndrome   ICD-9-CM   Diagnos     35.4   Syncope   ICD-9-CM   Diagnos     35.3   Vertebrobailar artery syndrome   ICD-9-CM   Diagnos     35.3   Vertebrobailar artery syndrome   ICD-9-CM   Diagnos     35.4   Walker, rigid (pickup), adjustable or fixed height   HCPCS   Procedu     0135   Walker, rigid (pickup), adjustable or fixed height   HCPCS   Procedu     0140   Walker, wheeled, with seat   HCPCS   Procedu     0141   Walker, nelocad, 4 sided framed, rigid or folding, wheeled with posterior seat   HCPCS   Procedu     0142   Rigid walker, wheeled, w	434.01	Cerebral thrombosis with cerebral infarction	ICD-9-CM	Diagnosis	
36   Acute, but ill-defined, cerebrovascular disease   ICD-9-CM   Diagnos     Syncope     80.2   Syncope and collapse   ICD-9-CM   Diagnos     35   Transient cerebral ischemia   ICD-9-CM   Diagnos     35.0   Basilar artery syndrome   ICD-9-CM   Diagnos     35.1   Vertebral artery syndrome   ICD-9-CM   Diagnos     35.2   Subclavian steal syndrome   ICD-9-CM   Diagnos     35.3   Vertebrobasilar artery syndrome   ICD-9-CM   Diagnos     35.4   Other specified transient cerebral ischemias   ICD-9-CM   Diagnos     35.3   Vertebrobasilar artery syndrome   ICD-9-CM   Diagnos     35.4   Other specified transient cerebral ischemias   ICD-9-CM   Diagnos     35.9   Unspecified transient cerebral ischemia   ICD-9-CM   Diagnos     35.9   Walker, rigid (pickup), adjustable or fixed	434.11	Cerebral embolism with cerebral infarction	ICD-9-CM	Diagnosis	
Syncope     ICD-9-CM     Diagnos       80.2     Syncope and collapse     ICD-9-CM     Diagnos       80.3     Transient cerebral ischemia     ICD-9-CM     Diagnos       35.0     Basilar artery syndrome     ICD-9-CM     Diagnos       35.1     Vertebral artery syndrome     ICD-9-CM     Diagnos       35.2     Subclavian steal syndrome     ICD-9-CM     Diagnos       35.3     Vertebrobasilar artery syndrome     ICD-9-CM     Diagnos       35.4     Other specified transient cerebral ischemias     ICD-9-CM     Diagnos       35.5     Unspecified transient cerebral ischemia     ICD-9-CM     Diagnos       35.9     Unspecified transient cerebral ischemia     ICD-9-CM     Diagnos       35.9     Unspecified transient cerebral ischemia     ICD-9-CM     Diagnos       36.0     Walker, rigid (pickup), adjustable or fixed height     HCPCS     Procedu       0130     Walker, folding (pickup), adjustable or fixed height     HCPCS     Procedu       0141     Walker, height with seat     HCPCS     Procedu       0142     Rigid walker, with seat and crutch attachments<	434.91	Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM	Diagnosis	
80.2     Syncope and collapse     ICD-9-CM     Diagnos       Transient Ischemic Attack       35     Transient cerebral ischemia     ICD-9-CM     Diagnos       35.0     Basilar artery syndrome     ICD-9-CM     Diagnos       35.1     Vertebral artery syndrome     ICD-9-CM     Diagnos       35.2     Subclavian steal syndrome     ICD-9-CM     Diagnos       35.3     Vertebrobasilar artery syndrome     ICD-9-CM     Diagnos       35.4     Other specified transient cerebral ischemias     ICD-9-CM     Diagnos       35.9     Unspecified transient cerebral ischemia     ICD-9-CM     Diagnos       35.9     Walker, rigid (pickup), adjustable or fixed height     HCPCS     Procedu       0130     Walker, rigid (pickup), adjustable or fixed height     HCPCS     Procedu       0140     Walker, rigid, wheeled, adjustable or fixed height     HCPCS     Procedu       0141     Walker, rigid, wheeled, adjustable or fixed height     HCPCS     Procedu       0142     Rigid walker, wheeled, adjustable or fixed height     HCPCS     Procedu       0144     Walker, relosed, 4 sided framed	436	Acute, but ill-defined, cerebrovascular disease	ICD-9-CM	Diagnosis	
Transient Ischemic Attack35Transient cerebral ischemiaICD-9-CMDiagnos35.1Wertebral artery syndromeICD-9-CMDiagnos35.2Subclavian steal syndromeICD-9-CMDiagnos35.3Vertebrobasilar artery syndromeICD-9-CMDiagnos35.4Subclavian steal syndromeICD-9-CMDiagnos35.5Subclavian steal syndromeICD-9-CMDiagnos35.6Other specified transient cerebral ischemiasICD-9-CMDiagnos35.7Unspecified transient cerebral ischemiasICD-9-CMDiagnos35.8Other specified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiasICD-9-CMDiagnos0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, rigid, wheeled, adjustable or fixed heightHCPCSProcedu0141Walker, rigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, with seatHCPCSProcedu0144Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0145Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0144Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0145Walker, heavy-duty, wheeled, rigid or folding, any type, eachHCPCSProcedu0144Walker, heavy-duty, wheeled, rigid or folding, any type, eachHCPCS </td <td></td> <td>Syncope</td> <td></td> <td></td>		Syncope			
35Transient cerebral ischemiaICD-9-CMDiagnos35.0Basilar artery syndromeICD-9-CMDiagnos35.1Vertebral artery syndromeICD-9-CMDiagnos35.2Subclavian steal syndromeICD-9-CMDiagnos35.3Vertebrobasilar artery syndromeICD-9-CMDiagnos35.4Subclavian steal syndromeICD-9-CMDiagnos35.5Vertebrobasilar artery syndromeICD-9-CMDiagnos35.6Other specified transient cerebral ischemiasICD-9-CMDiagnos35.7Unspecified transient cerebral ischemiaICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnos36.0Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0130Walker, folding (pickup), adjustable or fixed heightHCPCSProcedu0141Walker, nigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0143Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0144Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0144Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0145Walker, heavy-duty, without wheels, rigid or folding, any typeHCPCSProcedu0144Walker, heavy-duty, without wheels, rigid or folding, any typeHCPCSProcedu	780.2	Syncope and collapse	ICD-9-CM	Diagnosis	
33.0Basilar artery syndromeICD-9-CMDiagnos33.1Vertebral artery syndromeICD-9-CMDiagnos33.2Subclavian steal syndromeICD-9-CMDiagnos33.3Vertebrobasilar artery syndromeICD-9-CMDiagnos33.3Vertebrobasilar artery syndromeICD-9-CMDiagnos35.8Other specified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnos0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0141Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0143Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0144Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0145Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0144Walker, heavy-duty, without wheels, regid or folding, any type, eachHCPCSProcedu0145Walker, heavy-duty, without wheels, regid or folding, any type, eachHCPCSProcedu0146Polding walker, heavy-duty, without wheels, regid or folding, any type, eachHCPCSProcedu0155Wheel		Transient Ischemic Attack			
35.1Vertebral artery syndromeICD-9-CMDiagnos35.2Subclavian steal syndromeICD-9-CMDiagnos35.3Vertebrobasilar artery syndromeICD-9-CMDiagnos35.3Other specified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiasICD-9-CMDiagnos0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0135Walker, folding (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0141Walker, nigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, heeled, adjustable or fixed heightHCPCSProcedu0144Walker, heeled, with seat and crutch attachmentsHCPCSProcedu0145Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any typeHCPCSProcedu0149Walker, heavy-duty, without wheels, reprid or folding, any type, eachHCPCSProcedu0155Wheel attachment, walker, eachHCPCSPr	435	Transient cerebral ischemia	ICD-9-CM	Diagnosis	
33.2Subclavian steal syndromeICD-9-CMDiagnos33.3Vertebrobasilar artery syndromeICD-9-CMDiagnos35.3Other specified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnosWalker UseUnspecified transient cerebral ischemiaICD-9-CMDiagnosUnspecified transient cerebral ischemiaICD-9-CMDiagnosUnspecified transient cerebral ischemiaICD-9-CMDiagnosUnspecified transient cerebral ischemiasICD-9-CMDiagnosUnspecified transient cerebral ischemiaWalker, Unspecified transient cerebral ischemiaICD-9-CMDiagnosUnspecified transient cerebral ischemiaWalker, heresProceduUnspecified transient cerebral ischemiaMCPCSProcedu <t< td=""><td>435.0</td><td>Basilar artery syndrome</td><td>ICD-9-CM</td><td>Diagnosis</td></t<>	435.0	Basilar artery syndrome	ICD-9-CM	Diagnosis	
35.3Vertebrobasilar artery syndromeICD-9-CMDiagnos35.8Other specified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnosWalker UseU1010Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0141Walker, rigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, with seatHCPCSProcedu0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, heavy-duty, withseat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0155Wheel attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0158Leg extensions for walker,	435.1	Vertebral artery syndrome	ICD-9-CM	Diagnosis	
33.8.Other specified transient cerebral ischemiasICD-9-CMDiagnos35.9Unspecified transient cerebral ischemiaICD-9-CMDiagnosWalker Use0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0134Walker, folding (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0141Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0143Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0144Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0145Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0154Walker, heavy-duty, without wheels, rigid or folding, any typeHCPCSProcedu0155Wheel attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu<	435.2	Subclavian steal syndrome	ICD-9-CM	Diagnosis	
33.9   Unspecified transient cerebral ischemia   ICD-9-CM   Diagnost     Walker Use     0130   Walker, rigid (pickup), adjustable or fixed height   HCPCS   Procedu     0135   Walker, folding (pickup), adjustable or fixed height   HCPCS   Procedu     0140   Walker, with trunk support, adjustable or fixed height, any type   HCPCS   Procedu     0141   Walker, wheeled, adjustable or fixed height   HCPCS   Procedu     0142   Rigid walker, wheeled, adjustable or fixed height   HCPCS   Procedu     0144   Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seat   HCPCS   Procedu     0145   Walker, wheeled, with seat   HCPCS   Procedu     0144   Walker, wheeled, with seat   HCPCS   Procedu     0145   Walker, wheeled, with seat   HCPCS   Procedu     0146   Folding walker, wheeled, with seat   HCPCS   Procedu     0147   Walker, heavy-duty, multiple braking system, variable wheel resistance   HCPCS   Procedu     0148   Walker, heavy-duty, wheled, rigid or folding, any type, each   HCPCS   Procedu     0149   Walker, heavy-duty, wheeled,	435.3	Vertebrobasilar artery syndrome	ICD-9-CM	Diagnosis	
Walker Use0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0135Walker, folding (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0141Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0143Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0144Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0145Walker, wheeled, with seatHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Seat attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, per pairHCPCSProcedu0157Crutch attachment, walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, without w	435.8	Other specified transient cerebral ischemias	ICD-9-CM	Diagnosis	
0130Walker, rigid (pickup), adjustable or fixed heightHCPCSProcedu0135Walker, folding (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, with trunk support, adjustable or fixed height, any typeHCPCSProcedu0141Walker, rigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, per seit of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu <tr <tr="">0159Heavy duty</tr>	435.9	Unspecified transient cerebral ischemia	ICD-9-CM	Diagnosis	
0135Walker, folding (pickup), adjustable or fixed heightHCPCSProcedu0140Walker, with trunk support, adjustable or fixed height, any typeHCPCSProcedu0141Walker, with trunk support, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, adjustable or fixed heightHCPCSProcedu0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any type, eachHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, per set of 4HCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, witho		Walker Use			
0140Walker, with truk support, adjustable or fixed height, any typeHCPCSProcedu0141Walker, rigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, with seatHCPCSProcedu0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0155Wheel attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, per set of 4HCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, per set of 4HCPCSProcedu0159Heavy duty walker, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu	E0130	Walker, rigid (pickup), adjustable or fixed height	HCPCS	Procedure	
0141Walker, rigid, wheeled, adjustable or fixed heightHCPCSProcedu0142Rigid walker, wheeled, with seatHCPCSProcedu0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0155Wheel attachment, walker, eachHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, per set of 4HCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty wheeled walker, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0135	Walker, folding (pickup), adjustable or fixed height	HCPCS	Procedur	
0142Rigid walker, wheeled, with seatHCPCSProcedu0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0159Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0140	Walker, with trunk support, adjustable or fixed height, any type	HCPCS	Procedur	
0143Walker, folding, wheeled, adjustable or fixed heightHCPCSProcedu0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, per set of 4HCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0141	Walker, rigid, wheeled, adjustable or fixed height	HCPCS	Procedur	
0144Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seatHCPCSProcedu0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walker, eachHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0142	Rigid walker, wheeled, with seat	HCPCS	Procedur	
0145Walker, wheeled, with seat and crutch attachmentsHCPCSProcedu0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0143	Walker, folding, wheeled, adjustable or fixed height	HCPCS	Procedur	
0146Folding walker, wheeled, with seatHCPCSProcedu0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0144	Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seat	HCPCS	Procedur	
0147Walker, heavy-duty, multiple braking system, variable wheel resistanceHCPCSProcedu0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0145	Walker, wheeled, with seat and crutch attachments	HCPCS	Procedur	
0148Walker, heavy-duty, without wheels, rigid or folding, any type, eachHCPCSProcedu0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0146	Folding walker, wheeled, with seat	HCPCS	Procedur	
0149Walker, heavy-duty, wheeled, rigid or folding, any typeHCPCSProcedu0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0147	Walker, heavy-duty, multiple braking system, variable wheel resistance	HCPCS	Procedur	
0154Platform attachment, walker, eachHCPCSProcedu0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0148	Walker, heavy-duty, without wheels, rigid or folding, any type, each	HCPCS	Procedur	
0155Wheel attachment, rigid pick-up walker, per pairHCPCSProcedu0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0149	Walker, heavy-duty, wheeled, rigid or folding, any type	HCPCS	Procedur	
0156Seat attachment, walkerHCPCSProcedu0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	0154	Platform attachment, walker, each	HCPCS	Procedur	
0157Crutch attachment, walker, eachHCPCSProcedu0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0155	Wheel attachment, rigid pick-up walker, per pair	HCPCS	Procedur	
0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0156	Seat attachment, walker	HCPCS	Procedur	
0158Leg extensions for walker, per set of 4HCPCSProcedu0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0157		HCPCS	Procedur	
0159Brake attachment for wheeled walker, replacement, eachHCPCSProcedu0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0158			Procedur	
0458Heavy duty walker, without wheels, eachHCPCSProcedu0459Heavy duty wheeled walker, eachHCPCSProcedu	E0159	-		Procedur	
0459 Heavy duty wheeled walker, each HCPCS Procedu	<0458			Procedur	
	(0459			Procedur	
	1520	Thoracic-hip-knee-ankle orthotic (THKAO), swivel walker	HCPCS	Procedur	



Angiotoncin Convorting Engumo Inhibitors and Angio	toncin Bocontor Blockarc
Any $otensin-conventing ruzzine infinitions and Any o$	TENSIN RECEDIOL BIOCKERS
Angiotensin-Converting Enzyme Inhibitors and Angio	

Amlodipine Besylate Benazepril Hcl Cap 2.5 10 Mg Amlodipine Besylate Benazepril Hcl Cap 5 10 Mg Amlodipine Besylate Benazepril Hcl Cap 5 20 Mg Amlodipine Besylate Benazepril Hcl Cap 10 20 Mg Enalapril Maleate Tab 10 Mg Enalapril Maleate Tab 5 Mg Benazepril Hcl Tab 10 Mg Enalapril Maleate Tab 20 Mg Telmisartan Hydrochlorothiazide Tab 40 12.5 Mg Telmisartan Hydrochlorothiazide Tab 80 12.5 Mg Telmisartan Hydrochlorothiazide Tab 80 25 Mg Captopril Tab 100 Mg Lisinopril Tab 30 Mg Ramipril Cap 10 Mg Losartan Potassium Tab 25 Mg Quinapril Hcl Tab 5 Mg Quinapril Hcl Tab 10 Mg Quinapril Hcl Tab 20 Mg Quinapril Hcl Tab 40 Mg Benazepril Hcl Tab 5 Mg Amlodipine Besylate Benazepril Hcl Cap 5 40 Mg Amlodipine Besylate Benazepril Hcl Cap 10 40 Mg Irbesartan Tab 300 Mg Benazepril Hcl Tab 40 Mg Lisinopril Tab 5 Mg Lisinopril Tab 40 Mg Losartan Potassium Tab 50 Mg Captopril Tab 25 Mg Fosinopril Sodium Tab 40 Mg Losartan Potassium Hydrochlorothiazide Tab 100 25 Mg Lisinopril Tab 20 Mg Lisinopril Hydrochlorothiazide Tab 20 25 Mg Losartan Potassium Hydrochlorothiazide Tab 100 12.5 Mg Lisinopril Tab 2.5 Mg Lisinopril Hydrochlorothiazide Tab 20 12.5 Mg Lisinopril Tab 10 Mg Lisinopril Hydrochlorothiazide Tab 10 12.5 Mg Captopril Tab 12.5 Mg Captopril Tab 50 Mg Enalapril Maleate Tab 2.5 Mg Enalapril Maleate Hydrochlorothiazide Tab 5 12.5 Mg Enalapril Maleate Hydrochlorothiazide Tab 10 25 Mg Trandolapril Tab 1 Mg Trandolapril Tab 2 Mg Trandolapril Tab 4 Mg Trandolapril Verapamil Hcl Tab Cr 2 180 Mg Trandolapril Verapamil Hcl Tab Cr 2 240 Mg



Eprosartan Mesylate Tab 400 Mg Eprosartan Mesylate Tab 600 Mg Quinapril Hydrochlorothiazide Tab 20 12.5 Mg Quinapril Hydrochlorothiazide Tab 10 12.5 Mg Quinapril Hydrochlorothiazide Tab 20 25 Mg Captopril Hydrochlorothiazide Tab 25 15 Mg Captopril Hydrochlorothiazide Tab 50 25 Mg Irbesartan Tab 150 Mg Valsartan Tab 80 Mg Valsartan Tab 160 Mg Valsartan Hydrochlorothiazide Tab 80 12.5 Mg Valsartan Hydrochlorothiazide Tab 160 12.5 Mg Valsartan Hydrochlorothiazide Tab 160 25 Mg Benazepril Hcl Tab 20 Mg Irbesartan Tab 75 Mg Olmesartan Medoxomil Tab 20 Mg Olmesartan Medoxomil Tab 40 Mg Valsartan Tab 40 Mg Losartan Potassium Tab 100 Mg Ramipril Cap 2.5 Mg Ramipril Cap 5 Mg Benazepril Hydrochlorothiazide Tab 10 12.5 Mg Losartan Potassium Hydrochlorothiazide Tab 50 12.5 Mg Irbesartan Hydrochlorothiazide Tab 150 12.5 Mg Amlodipine Besylate Valsartan Tab 10 320 Mg Amlodipine Besylate Valsartan Tab 5 160 Mg Valsartan Tab 320 Mg Valsartan Hydrochlorothiazide Tab 320 25 Mg Telmisartan Tab 20 Mg Telmisartan Tab 40 Mg Telmisartan Tab 80 Mg Candesartan Cilexetil Tab 8 Mg Moexipril Hcl Tab 7.5 Mg Benazepril Hydrochlorothiazide Tab 5 6.25 Mg Benazepril Hydrochlorothiazide Tab 20 12.5 Mg Benazepril Hydrochlorothiazide Tab 20 25 Mg Fosinopril Sodium Hydrochlorothiazide Tab 20 12.5 Mg Ramipril Cap 1.25 Mg Fosinopril Sodium Tab 20 Mg Fosinopril Sodium Tab 10 Mg Candesartan Cilexetil Hydrochlorothiazide Tab 32 12.5 Mg Valsartan Hydrochlorothiazide Tab 320 12.5 Mg Amlodipine Besylate Olmesartan Medoxomil Tab 10 20 Mg Olmesartan Medoxomil Hydrochlorothiazide Tab 40 12.5 Mg Olmesartan Medoxomil Hydrochlorothiazide Tab 20 12.5 Mg Lisinopril Tab 20 Mg Dietary Management Cap Pack Valsartan Hydrochlorothiazide Amlodipine Besylate Valsartan Hydrochlorothiazide Sacubitril Valsartan



Valsartan Amlodipine Besylate Valsartan Lisinopril Benazepril Hcl Hydrochlorothiazide Telmisartan Amlodipine Besylate Telmisartan **Fosinopril Sodium** Perindopril Erbumine Enalapril Maleate Hydrochlorothiazide Benazepril Hcl Ramipril **Enalapril Maleate** Telmisartan Hydrochlorothiazide Losartan Potassium Losartan Potassium Hydrochlorothiazide Quinapril Hcl Hydrochlorothiazide Trandolapril Lisinopril Hydrochlorothiazide Amlodipine Besylate Benazepril Hcl Irbesartan Quinapril Hcl Irbesartan Hydrochlorothiazide Trandolapril Verapamil Hcl Azilsartan Medoxomil Azilsartan Medoxomil Chlorthalidone Candesartan Cilexetil Perindopril Arginine Amlodipine Besylate Captopril Hydrochlorothiazide Captopril Eprosartan Mesylate Hydrochlorothiazide **Eprosartan Mesylate** Aliskiren Valsartan Fosinopril Sodium Hydrochlorothiazide Moexipril Hcl Moexipril Hcl Hydrochlorothiazide **Enalapril Maleate Felodipine** Candesartan Cilexetil Hydrochlorothiazide Olmesartan Medoxomil Olmesartan Medoxomil Hydrochlorothiazide Amlodipine Besylate Olmesartan Medoxomil Olmesartan Medoxomil Amlodipine Besylate Hydrochlorothiazide Lisinopril Dietary Supplement Comb.10 Amiodarone Amiodarone Hcl Amiodarone Hcl Tab 200 Mg Amiodarone Hcl Tab 400 Mg

#### Antiarrhythmics

Disopyramide Phosphate Cap 150 Mg Quinidine Sulfate Tab Cr 300 Mg



Propafenone Hcl Tab 150 Mg Propafenone Hcl Tab 300 Mg Propafenone Hcl Tab 225 Mg Quinidine Gluconate Tab Cr 324 Mg Quinidine Sulfate Tab 300 Mg Quinidine Sulfate Tab 200 Mg Flecainide Acetate Tab 100 Mg Sotalol Hcl Tab 80 Mg Sotalol Hcl (Afib Afl) Tab 120 Mg Sotalol Hcl (Afib Afl) Tab 80 Mg Mexiletine Hcl Cap 150 Mg Mexiletine Hcl Cap 200 Mg Mexiletine Hcl Cap 250 Mg Sotalol Hcl Tab 160 Mg Sotalol Hcl Tab 240 Mg Sotalol Hcl Tab 120 Mg Moricizine Hcl Tab 200 Mg Moricizine Hcl Tab 300 Mg Flecainide Acetate Tab 50 Mg Procainamide Hcl Tab Cr 750 Mg Procainamide Hcl Cap 375 Mg Sotalol Hcl (Afib Afl) Tab 160 Mg Procainamide Hcl Tab Sr 12Hr 500 Mg Procainamide Hcl Tab Sr 12Hr 1000 Mg Propafenone Hcl Sotalol Hcl **Flecainide Acetate** Adenosine Triphosphate Procainamide Hcl **Disopyramide Phosphate** Mexiletine Hcl Dofetilide **Quinidine Sulfate** Tocainide Hcl Quinidine Gluconate Moricizine Hcl

#### Anticoagulants

Heparin Sodium (Porcine) 100 Unit MI In D5W Heparin Sodium (Bovine) Inj 1000 Unit MI Heparin Sodium (Bovine) Inj 5000 Unit MI Heparin Sodium (Bovine) Inj 10000 Unit MI Heparin Sodium (Porcine) Inj 2500 Unit MI Heparin Sodium (Porcine) Inj 7500 Unit MI Heparin Sodium (Porcine) Inj 5000 Unit MI Enoxaparin Sodium Inj 10 Mg 0.1MI (100 Mg MI) Heparin Sodium (Porcine) Inj 1000 Unit MI Enoxaparin Sodium Inj 30 Mg 0.3MI Enoxaparin Sodium Inj 40 Mg 0.4MI



Enoxaparin Sodium Inj 60 Mg 0.6Ml Enoxaparin Sodium Inj 80 Mg 0.8Ml Enoxaparin Sodium Inj 100 Mg Ml Enoxaparin Sodium Inj 120 Mg 0.8Ml Enoxaparin Sodium Inj 150 Mg Ml Tinzaparin Sodium Inj 20000 Anti Xa Unit MI **Dalteparin Sodium Porcine Heparin Sodium Porcine** Heparin Sodium Porcine In 0.9 % Sodium Chloride Pf Heparin Sodium Porcine In 0.45 % Sodium Chloride Heparin Sodium Porcine Dextrose 5 % In Water **Enoxaparin Sodium** Heparin Sodium Porcine In 0.9 % Sodium Chloride Fondaparinux Sodium **Heparin Sodium Beef** Heparin Sodium Porcine Pf Heparin Sodium Porcine Normal Saline Pf Heparin Sodium Porcine 0.5 Normal Saline Heparin Sodium Porcine Dextrose 5% Water Heparin Sodium Porcine Normal Saline Heparin Sodium Porcine Dextrose 5 % In Water Pf **Tinzaparin Sodium Porcine** Heparin Sodium Porcine In 1 2 Normal Saline Heparin Sodium Porcine Dextrose 5 % Water **Antiplatelet Agents (non-aspirin)** Dipyridamole Tab 75 Mg Cilostazol Tab 50 Mg Cilostazol Tab 100 Mg Clopidogrel Bisulfate Tab 75 Mg (Base Equiv) Dipyridamole Tab 50 Mg Clopidogrel Bisulfate Tab 300 Mg (Base Equiv) Ticlopidine Hcl Tab 250 Mg Dipyridamole Tab 25 Mg Aspirin Dipyridamole Cap Sr 12Hr 25 200 Mg Aspirin Dipyridamole Ticagrelor **Clopidogrel Bisulfate** Dipyridamole Cilostazol Prasugrel Hydrochloride Prasugrel Hcl **Ticlopidine Hcl** 

## **Beta Blockers**

Propranolol Hcl Tab 10 Mg Metoprolol Succinate Tab Sr 24Hr 100 Mg Bisoprolol Hydrochlorothiazide Tab 5 6.25 Mg Carvedilol Tab 12.5 Mg Carvedilol Tab 3.125 Mg Propranolol Hcl Tab 40 Mg



Acebutolol Hcl Powder Propranolol Hcl Cap Sr 24Hr 120 Mg Atenolol Tab 25 Mg Atenolol Tab 50 Mg Atenolol Tab 100 Mg Propranolol Hcl Tab 20 Mg Metoprolol Succinate Tab Sr 24Hr 50 Mg Metoprolol Tartrate Tab 100 Mg Metoprolol Tartrate Tab 25 Mg Carvedilol Tab 25 Mg Metoprolol Tartrate Tab 50 Mg Carvedilol Tab 6.25 Mg Nadolol Tab 40 Mg Nadolol Tab 120 Mg Nadolol Tab 20 Mg Nadolol Tab 80 Mg Bisoprolol Hydrochlorothiazide Tab 10 6.25 Mg Bisoprolol Hydrochlorothiazide Tab 2.5 6.25 Mg **Bisoprolol Fumarate Tab 5 Mg** Bisoprolol Fumarate Tab 10 Mg Acebutolol Hcl Cap 200 Mg Betaxolol Hcl Tab 10 Mg Labetalol Hcl Tab 100 Mg Labetalol Hcl Tab 200 Mg Labetalol Hcl Tab 300 Mg Propranolol Hydrochlorothiazide Tab 40 25 Mg Atenolol Chlorthalidone Tab 50 25 Mg Atenolol Chlorthalidone Tab 100 25 Mg Pindolol Tab 10 Mg Propranolol Hcl Tab 80 Mg Propranolol Hcl Cap Sr 24Hr 60 Mg Metoprolol Succinate Tab Sr 24Hr 25 Mg Propranolol Hcl Cap Sr 24Hr 160 Mg Sotalol Hcl Tab 80 Mg Sotalol Hcl (Afib Afl) Tab 120 Mg Sotalol Hcl (Afib Afl) Tab 80 Mg Sotalol Hcl Tab 160 Mg Sotalol Hcl Tab 240 Mg Sotalol Hcl Tab 120 Mg Pindolol Tab 5 Mg Propranolol Hcl Tab 60 Mg Metoprolol Succinate Tab Sr 24Hr 200 Mg Carvedilol Phosphate Cap Sr 24Hr 20 Mg Timolol Maleate Tab 10 Mg Propranolol Hcl Cap Sr 24Hr 80 Mg Sotalol Hcl (Afib Afl) Tab 160 Mg Metoprolol Hydrochlorothiazide Tab 50 25 Mg Nebivolol Hcl Tab 2.5 Mg (Base Equivalent) Nebivolol Hcl Tab 20 Mg (Base Equivalent)



Nebivolol Hcl Tab 10 Mg (Base Equivalent) Nebivolol Hcl Tab 5 Mg (Base Equivalent) Metoprolol Tab 50 Mg Dietary Management Cap Pack Carvedilol Tab 12.5 Mg Dietary Management Cap Pack Metoprolol Tartrate Nebivolol Hcl Atenolol Bisoprolol Fumarate Hydrochlorothiazide Carvedilol **Propranolol Hcl** Metoprolol Tartrate Hydrochlorothiazide Sotalol Hcl Nadolol Pindolol Metoprolol Succinate Labetalol Hcl Atenolol Chlorthalidone Acebutolol Hcl Metoprolol Succinate Hydrochlorothiazide **Timolol Maleate** Timolol Maleate Hydrochlorothiazide **Carvedilol Phosphate** Betaxolol Hcl Propranolol Hcl Hydrochlorothiazide **Carteolol Hcl** Penbutolol Sulfate **Bisoprolol Fumarate** Nadolol Bendroflumethiazide Levetiracetam Metoprolol Tartrate Dietary Supplement Comb.10 **Calcium Channel Blockers** Amlodipine Besylate Tab 2.5 Mg Amlodipine Besylate Tab 5 Mg Amlodipine Besylate Tab 10 Mg Amlodipine Besylate Benazepril Hcl Cap 2.5 10 Mg Amlodipine Besylate Benazepril Hcl Cap 5 10 Mg Amlodipine Besylate Benazepril Hcl Cap 5 20 Mg Amlodipine Besylate Benazepril Hcl Cap 10 20 Mg Diltiazem Hcl Tab 60 Mg Diltiazem Hcl Tab 30 Mg Diltiazem Hcl Coated Beads Cap Sr 24Hr 240 Mg Diltiazem Hcl Extended Release Beads Cap Sr 24Hr 180 Mg Diltiazem Hcl Coated Beads Cap Sr 24Hr 120 Mg Verapamil Hcl Tab Cr 240 Mg Amlodipine Besylate Benazepril Hcl Cap 5 40 Mg Amlodipine Besylate Benazepril Hcl Cap 10 40 Mg Nifedipine Tab Sr 24Hr Osmotic Release 60 Mg Nifedipine Tab Sr 24Hr Osmotic Release 30 Mg Nifedipine Tab Sr 24Hr 30 Mg



Nifedipine Tab Sr 24Hr 60 Mg Verapamil Hcl Tab Cr 180 Mg Verapamil Hcl Tab Cr 120 Mg Trandolapril Verapamil Hcl Tab Cr 2 180 Mg Trandolapril Verapamil Hcl Tab Cr 2 240 Mg Nifedipine Cap 10 Mg Diltiazem Hcl Cap Sr 12Hr 90 Mg Diltiazem Hcl Cap Sr 12Hr 120 Mg Nicardipine Hcl Cap 20 Mg Verapamil Hcl Cap Sr 24Hr 180 Mg Diltiazem Hcl Tab 90 Mg Diltiazem Hcl Coated Beads Cap Sr 24Hr 180 Mg Felodipine Tab Sr 24Hr 2.5 Mg Felodipine Tab Sr 24Hr 5 Mg Felodipine Tab Sr 24Hr 10 Mg Verapamil Hcl Cap Sr 24Hr 120 Mg Verapamil Hcl Cap Sr 24Hr 240 Mg Verapamil Hcl Cap Sr 24Hr 360 Mg Nifedipine Tab Sr 24Hr 90 Mg Nifedipine Tab Sr 24Hr Osmotic 90 Mg Verapamil Hcl Tab 80 Mg Verapamil Hcl Tab 120 Mg Nifedipine Tab Sr 24Hr Osmotic 60 Mg Nifedipine Tab Sr 24Hr Osmotic 30 Mg Diltiazem Hcl Tab 120 Mg Amlodipine Besylate Valsartan Tab 10 320 Mg Amlodipine Besylate Valsartan Tab 5 160 Mg Diltiazem Hcl Coated Beads Cap Sr 24Hr 300 Mg Nimodipine Cap 30 Mg Nifedipine Cap 20 Mg Diltiazem Hcl Cap Sr 12Hr 60 Mg Verapamil Hcl Tab Sr 24Hr (Controlled Onset) 180 Mg Verapamil Hcl Tab Sr 24Hr (Controlled Onset) 240 Mg Nisoldipine Tab Sr 24Hr 30 Mg Diltiazem Hcl Extended Release Beads Cap Sr 24Hr 120 Mg Diltiazem Hcl Extended Release Beads Cap Sr 24Hr 240 Mg Verapamil Hcl Cap Sr 24Hr 100 Mg Diltiazem Hcl Cap Sr 24Hr 180 Mg Isradipine Cap 2.5 Mg Diltiazem Hcl Cap Sr 24Hr 240 Mg Verapamil Hcl Cap Sr 24Hr 300 Mg Diltiazem Hcl Cap Sr 24Hr 120 Mg Amlodipine Besylate Olmesartan Medoxomil Tab 10 20 Mg Amlodipine Tab 2.5 Mg Dietary Management Cap Pack Amlodipine Besylate Amlodipine Besylate Valsartan Hydrochlorothiazide Amlodipine Besylate Valsartan Diltiazem Hcl Telmisartan Amlodipine Besylate



Amlodipine Besylate Atorvastatin Calcium

Nimodipine Verapamil Hcl Felodipine Nifedipine Isradipine Amlodipine Besylate Benazepril Hcl Trandolapril Verapamil Hcl Perindopril Arginine Amlodipine Besylate Nicardipine Hcl **Bepridil Hcl** Aliskiren Hemifumarate Amlodipine Besylate Aliskiren Hemifumarate Amlodipine Hydrochlorothiazide **Enalapril Maleate Felodipine** Nisoldipine Amlodipine Besylate Olmesartan Medoxomil **Fosinopril Sodium** Olmesartan Medoxomil Amlodipine Besylate Hydrochlorothiazide Digoxin Digoxin Tab 125 Mcg (0.125 Mg) Digoxin Tab 250 Mcg (0.25 Mg) Digoxin Tab 0.125 Mg Digoxin Oral Soln 0.05 Mg MI Digoxin Tab 0.25 Mg Digoxin Dronedarone Dronedarone Hcl **Estrogen Replacement** Levonorgestrel Ethinyl Estradiol Tab 0.1 Mg 20 Mcg Levonorgestrel Ethinyl Estradiol (91 Day) Tab 0.15 0.03 Mg Estradiol Tab 1 Mg Estradiol Tab 2 Mg Estradiol Td Patch Weekly 0.025 Mg 24Hr Estradiol Tab 0.5 Mg Estradiol Estriol Progesterone Micronized Cream (Cmpd Kit) Norgestimate Ethinyl Estradiol Tab 0.25 Mg 35 Mcg Desogestrel Ethinyl Estradiol Tab 0.15 Mg 30 Mcg Norelgestromin Ethinyl Estradiol Td Ptwk 150 35 Mcg 24Hr Norethindrone Ethinyl Estradiol Tab 1 Mg 35 Mcg Norethindrone Eth Estradiol Tab 0.5 35 0.75 35 1 35 Mg Mcg Drospirenone Ethinyl Estradiol Tab 3 0.02 Mg Estradiol Implant Pellet 6 Mg Estradiol Implant Pellet 10 Mg Estradiol Implant Pellet 12.5 Mg Estradiol Implant Pellet 18 Mg Estradiol Implant Pellet 20 Mg Estradiol Implant Pellet 25 Mg Estradiol Implant Pellet 31 Mg Estradiol Implant Pellet 37.5 Mg



Estradiol Implant Pellet 50 Mg Estradiol Valerate Im In Oil 40 Mg Ml Estradiol Valerate Im In Oil 10 Mg Ml Estradiol Valerate Im In Oil 20 Mg Ml Estradiol Testosterone Cypionates Im In Oil 2 50 Mg Ml Medroxyprogesterone Ace Estradiol Cyp Im Susp 25 5 Mg 0.5Ml Ethynodiol Diacetate Ethinyl Estradiol Tab 1 Mg 50 Mcg Ethynodiol Diacetate Ethinyl Estradiol Tab 1 Mg 35 Mcg Estrogens Conjugated Tab 1.25 Mg Estrogens Conjugated Tab 0.625 Mg Estradiol Td Patch Biweekly 0.025 Mg 24Hr Estradiol Td Patch Biweekly 0.05 Mg 24Hr Estradiol Td Patch Biweekly 0.1 Mg 24Hr Estradiol Td Patch Biweekly 0.0375 Mg 24Hr Estradiol Td Patch Biweekly 0.075 Mg 24Hr Estropipate Tab 3 Mg Estradiol Tab 1.5 Mg Norethindrone Ethinyl Estradiol Fe Chew Tab 0.4 Mg 35 Mcg Esterified Estrogens Methyltestosterone Tab 0.625 1.25 Mg Esterified Estrogens Methyltestosterone Tab 1.25 2.5 Mg Estrogens Conjugated Tab 0.45 Mg Estradiol Td Patch Weekly 0.05 Mg 24Hr Estradiol Td Patch Weekly 0.1 Mg 24Hr Drospirenone Ethinyl Estradiol Tab 3 0.03 Mg Levonorgestrel Ethinyl Estradiol Tab 0.10 Mg 20 Mcg Norgestrel Ethinyl Estradiol Tab 0.3 Mg 30 Mcg Levonorgestrel Ethinyl Estradiol Tab 0.15 Mg 30 Mcg Estropipate Tab 0.75 Mg Estropipate Tab 1.5 Mg Norethindrone Ethinyl Estradiol Tab 0.5 Mg 35 Mcg Norethindrone Eth Estradiol Tab 0.5 35 1 35 Mg Mcg (10 11) Norethindrone Ace Ethinyl Estradiol Tab 1 Mg 20 Mcg Norethindrone Ace Ethinyl Estradiol Fe Tab 1.5 Mg 30 Mcg Ethinyl Estradiol Tab 0.02 Mg Esterified Estrogens Tab 0.625 Mg Esterified Estrogens Tab 0.3 Mg Estrogens Conjugated Tab 0.9 Mg Estrogens Conjugated Tab 0.3 Mg Norgestrel Ethinyl Estradiol Tab 0.5 Mg 50 Mcg Norethindrone Ethinyl Estradiol Tab 0.4 Mg 35 Mcg Estradiol Cypionate Im In Oil 5 Mg Ml Conj Est 0.625(14) Conj Est Medroxypro Ac Tab 0.625 5Mg(14) Norethindrone Acetate Ethinyl Estradiol Tab 1 Mg 5 Mcg Norethindrone Ace Ethinyl Estradiol Fe Tab 1 Mg 20 Mcg Norethindrone Ethinyl Estradiol Fe Chew Tab 0.8 Mg 25 Mcg Norethin Eth Estradiol Fe Tab 1 Mg 10 Mcg (24) 10 Mcg (2) Esterified Estrogens Tab 1.25 Mg Estrogens Conjugated Synthetic A Tab 1.25 Mg Estrogens Conjugated Synthetic A Tab 0.625 Mg



Estrogens Conjugated Synthetic A Tab 0.9 Mg Esterified Estrogens Tab 2.5 Mg Estrogens Conjugated Tab 2.5 Mg Norgestimate Eth Estrad Tab 0.18 35 0.215 35 0.25 35 Mg Mcg Conjugated Estrogen Medroxyprogest Acetate Tab 0.3 1.5 Mg Conjugated Estrogen Medroxyprogest Acetate Tab 0.45 1.5 Mg Conjugated Estrogen Medroxyprogest Acetate Tab 0.625 2.5 Mg Conjugated Estrogen Medroxyprogest Acetate Tab 0.625 5 Mg Norelgestromin Ethinyl Estradiol Td Ptwk 150 20 Mcg 24Hr Estradiol **Desogestrel Ethinyl Estradiol** Norgestimate Ethinyl Estradiol Norethindrone Acetate Ethinyl Estradiol Norethindrone Acetate Ethinyl Estradiol Ferrous Fumarate Norelgestromin Ethinyl Estradiol Levonorgestrel Ethinyl Estradiol Levonorgestrel Eth Estra Ethinyl Estradiol Desogestrel Ethinyl Estradiol Ethinyl Estradiol **Ethinyl Estradiol Drospirenone** Norethindrone Ethinyl Estradiol Ferrous Fumarate **Drospirenone Ethinyl Estradiol Levomefolate Calcium** Norethindrone Ethinyl Estradiol Levonorgestrel Ethinyl Estradiol And Ethinyl Estradiol Norgestrel Ethinyl Estradiol Ethynodiol Diacetate Ethinyl Estradiol **Estradiol Norethindrone Acetate** Levonorgestrel Eth Estra Estrogens Conjugated Bazedoxifene Acetate **Estradiol Cypionate** Estradiol Cypionate Medroxyprogesterone Acet Estropipate Ethynodiol D Ethinyl Estradiol Methyltestosterone Estrogens Esterified **Estrogens Conjugated** Estrogens Conjugated Medroxyprogesterone Acet Estrogens Conjugated Medroxyprogesterone Acetate **Etonogestrel Ethinyl Estradiol** Norethindrone Ethinyl Estrad **Estradiol Norgestimate** Ethinyl Estradiol Norelgestromin Ethinyl Estradiol Norethindrone Acetate Norethindrone A E Estradiol Ferrous Fumarate Norethindrone A E Estradiol Estrone **Estradiol Valerate** Testosterone Enanthate Estradiol Valerate Estradiol Acetate Estrogens Esterified Methyltestosterone **Estradiol Valerate Dienogest** 



Estradiol Hemihydrate Drospirenone
Estradiol Levonorgestrel
Estrogens Conj. Synthetic B
Estrogens Conj. Synthetic A
Estrogens Esterified
Ethinyl Estradiol
Fibrates
Fenofibrate Tab 54 Mg
Fenofibrate Tab 160 Mg
Gemfibrozil Tab 600 Mg
Fenofibrate Micronized Cap 67 Mg
Fenofibrate Micronized Cap 134 Mg
Fenofibrate Micronized Cap 200 Mg
Choline Fenofibrate Cap Dr 135 Mg (Fenofibric Acid Equiv)
Fenofibrate Tab 48 Mg
Fenofibrate Tab 145 Mg
Fenofibrate
Fenofibric Acid (Choline)
Gemfibrozil
Fenofibrate Micronized
Fenofibrate Nanocrystallized
Fenofibric Acid
H <sub>2</sub> Antagonists
Ranitidine Hcl Tab 150 Mg
Ranitidine Hcl Tab 75 Mg
Ranitidine Hcl Syrup 15 Mg Ml (75 Mg 5Ml)
Ranitidine Hcl For Oral Susp 22.4 Mg MI (Compound Kit)
Forestiding Tab 10 N/a
Famotidine Tab 10 Mg
Famotidine Tab 10 Mg Famotidine Tab 20 Mg
Famotidine Tab 20 Mg
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg Nizatidine Cap 150 Mg
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg Nizatidine Cap 150 Mg Cimetidine Tab 400 Mg
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg Nizatidine Cap 150 Mg Cimetidine Tab 400 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% Thpk
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg Nizatidine Cap 150 Mg Cimetidine Tab 400 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% Thpk Famotidine Tab 40 Mg
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg Nizatidine Cap 150 Mg Cimetidine Tab 400 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% Thpk Famotidine Tab 40 Mg Cimetidine Tab 300 Mg
Famotidine Tab 20 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr Thpk Ranitidine Hcl Tab 300 Mg Nizatidine Cap 150 Mg Cimetidine Tab 400 Mg Diclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% Thpk Famotidine Tab 40 Mg Cimetidine Tab 300 Mg
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Tab 300 MgCimetidine Tab 300 MgCimetidine Tab 300 MgFamotidine Tab 300 MgFamotidine Tab 300 MgFamotidine Tab 800 Mg
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Tab 300 MgCimetidine Tab 300 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 800 MgCimetidine Tab 200 Mg
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 800 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Hcl Soln 300 Mg 5Ml
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Tab 200 MgFamotidine Tab 200 MgFamotidine Tab 200 MgFamotidine Hcl Soln 300 Mg 5MlFamotidine Chew Tab 20 Mg
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 40 MgCimetidine Tab 300 MgCimetidine Tab 300 MgCimetidine Tab 300 MgCimetidine Tab 300 MgCimetidine Tab 800 MgCimetidine Tab 200 MgCimetidine Tab 200 MgFamotidine Chew Tab 200 MgFamotidine Chew Tab 20 Mg
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgCimetidine Tab 300 MgCimetidine Tab 300 MgCimetidine Tab 800 MgCimetidine Tab 800 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Cap 300 Mg 5MIFamotidine Caw Tab 20 MgFamotidine Caw Tab 20 MgFamotidine Caw Tab 20 MgFamotidine Chew Tab 20 MgFamotidine Caw Tab 20 MgFamotidine Cay 300 Mg
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgRanitidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgRanitidine Chew Tab 20 MgFamotidine Chew Tab 20 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 185 MgNizatidine Cap 300 MgNizatidine Cap 300 MgNizatidine Hcl Tab 150 Mg Dietary Management Cap Pack
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 800 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgRanotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 185 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 185 MgNizatidine Cap 300 MgNizatidine Hcl Tab 150 Mg Dietary Management Cap PackFamotidineFamotidine
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgRanitidine Chew Tab 20 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 185 MgNizatidine Cap 300 MgRanitidine Cap 300 MgRanitidine Hcl Tab 150 Mg Dietary Management Cap PackFamotidineRanitidine Hcl
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Tab 300 MgCimetidine Tab 300 MgGimetidine Tab 800 MgCimetidine Tab 800 MgCimetidine Tab 200 MgCimetidine Tab 200 MgRanitidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgRimetidine Tab 200 MgRanotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 185 MgNizatidine Cap 300 MgRanitidine Hcl Tab 150 Mg Dietary Management Cap PackFamotidineRanitidine HclFamotidine HclFamotidine HclFamotidine Calcium Carbonate Magnesium Hydroxide
Famotidine Tab 20 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Capsaicin Cr ThpkRanitidine Hcl Tab 300 MgNizatidine Cap 150 MgCimetidine Tab 400 MgDiclofen Dr Tab 75Mg Ranitidine Tab 150Mg Lido Cr 3.75% ThpkFamotidine Tab 40 MgCimetidine Tab 300 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgCimetidine Tab 200 MgCimetidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 165 MgCimetidine Tab 200 MgRanitidine Chew Tab 20 MgFamotidine Ca Carbonate Mag Hydroxide Chew Tab 10 800 185 MgNizatidine Cap 300 MgRanitidine Cap 300 MgRanitidine Hcl Tab 150 Mg Dietary Management Cap PackFamotidineRanitidine Hcl



Nizatidine

Cimetidine Hcl

Ranitidine Hcl Dietary Supplement Misc Comb17 Ranitidine Hcl Dietary Supplement Misc.Combo8 Ibuprofen Famotidine

## Insulin

Insulin Detemir Soln Pen Injector 100 Unit MI Insulin Aspart Inj 100 Unit MI Insulin Lispro (Human) Soln Pen Injector 100 Unit MI Insulin Aspart Soln Cartridge 100 Unit MI Insulin Aspart Soln Pen Injector 100 Unit MI Insulin Aspart Prot Aspart (Human) Inj 100 Unit MI (70 30) Insulin Aspart Prot Aspart Sus Pen Inj 100 Unit MI (70 30) Insulin (Regular) Inj 100 Unit MI Insulin Isophane Inj 100 Unit MI Insulin Zinc Inj 100 Unit Ml Insulin Lispro (Human) Inj 100 Unit Ml Insulin Isophane (Human) Inj 100 Unit MI Insulin Regular (Human) Inj 100 Unit MI Insulin Detemir Inj 100 Unit Ml Insulin Glargine Inj 100 Unit Ml Insulin Isophane Regular (Human) Inj 100 Unit MI (70 30) Insulin Zinc (Human) Inj 100 Unit MI Insulin Glargine Soln Pen Injector 100 Unit MI Insulin Lispro Prot Lispro (Human) Inj 100 Unit MI (75 25) Insulin Lispro Insulin Lispro Protamine Insulin Lispro Insulin Regular Human Insulin Glargine Human Recombinant Analog Insulin Degludec Insulin Detemir **Diluent Insulin Aspart Combination #1** Insulin Nph Human Recom Insulin Lispro Human Rec.Anlog Insulin Lispro (Npl) Insulin Lispro Human Rec.Anlog **Insulin Pork Purified** Insulin Regular Human Rec Insulin Isophane Pork Pure Nph Human Insulin Isophane Insulin Zinc Pork Purified Insulin Zinc Human Rec Insulin Zinc Extend Human Rec Insulin Nph Human Recom Insulin Regular Human Rec Nph Human Insulin Isophane Insulin Regular Human Insulin Regular Human Rec Insulin Release Unit Insulin Regular Human Rec Insulin Release Unit Chbr Ihlr Insulin Glargine Human Recombinant Analog Insulin Glargine Hum.Rec.Anlog Insulin Glulisine



Insulin Reg Hum Rec Buff Insulin Aspart

Insulin Aspart Protamine Human Insulin Aspart

# **Loop Diuretics**

Bumetanide Tab 0.5 Mg Bumetanide Tab 1 Mg Bumetanide Tab 2 Mg Furosemide Tab 40 Mg Furosemide Tab 20 Mg Furosemide Tab 80 Mg Furosemide Oral Soln 10 Mg Ml Torsemide Tab 10 Mg Torsemide Tab 5 Mg Torsemide Tab 20 Mg Torsemide Bumetanide Ethacrynic Acid

## Metformin

Glyburide Metformin Tab 2.5 500 Mg Metformin Hcl Tab Sr 24Hr 500 Mg Metformin Hcl Tab 500 Mg Metformin Hcl Tab 850 Mg Metformin Hcl Tab 1000 Mg Metformin Hcl Tab Sr 24Hr 750 Mg Sitagliptin Metformin Hcl Tab Sr 24Hr 50 1000 Mg Glyburide Metformin Tab 5 500 Mg Glipizide Metformin Hcl Tab 2.5 500 Mg Glipizide Metformin Hcl Tab 5 500 Mg Sitagliptin Metformin Hcl Tab 50 1000 Mg Sitagliptin Metformin Hcl Tab 50 500 Mg Rosiglitazone Maleate Metformin Hcl Tab 4 500 Mg Pioglitazone Hcl Metformin Hcl Tab 15 850 Mg Metformin Hcl Tab 500 Mg Dietary Management Cap Pack **Pioglitazone Hcl Metformin Hcl** Saxagliptin Hcl Metformin Hcl Dapagliflozin Propanediol Metformin Hcl **Empagliflozin Metformin Hcl** Metformin Hcl **Glyburide Metformin Hcl** Alogliptin Benzoate Metformin Hcl Canagliflozin Metformin Hcl **Repaglinide Metformin Hcl** Sitagliptin Phosphate Metformin Hcl Rosiglitazone Maleate Metformin Hcl Glipizide Metformin Hcl Glyburide Micronized Metformin Hcl Linagliptin Metformin Hcl **Butalbital Aspirin Caffeine** 



Propranolol Hcl Metformin Caffeine Amino Acids#7 Herbal Comb#125 Choline Bit Metformin Amino Acids Comb. #7 Herbal Comb.#125 Choline

#### **Nicotine Dependency**

Nicotine Polacrilex Lozenge 2 Mg Nicotine Polacrilex Lozenge 4 Mg Nicotine Polacrilex Gum 4 Mg Nicotine Polacrilex Gum 2 Mg Nicotine Td Patch 24Hr 7 Mg 24Hr Homeopathic Products Kit Nicotine Inhaler System 10 Mg (4 Mg Delivered) Nicotine Td Patch 24Hr 14 Mg 24Hr Varenicline Tartrate Tab 0.5 Mg (Base Equiv) Varenicline Tartrate Tab 1 Mg (Base Equiv) Nicotine Td Patch 24Hr 21 Mg 24Hr Nicotine Td Patch 24Hr 11 Mg 24Hr Nicotine Td Patch 24Hr 22 Mg 24Hr Varenicline Tartrate Tab 0.5 Mg X 11 Tab 1 Mg X 42 Pack Nicotine Varenicline Tartrate **Nicotine Polacrilex Smoking Deterrent Filter Calcium Carbonate** 

#### Nitrates

**Bupropion Hcl** 

Isosorbide Mononitrate Tab Sr 24Hr 120 Mg Nitroglycerin SI Tab 0.4 Mg Isosorbide Dinitrate Tab 20 Mg Isosorbide Mononitrate Tab Sr 24Hr 30 Mg Isosorbide Dinitrate Tab 10 Mg Isosorbide Dinitrate Tab 30 Mg Isosorbide Dinitrate SI Tab 10 Mg Nitroglycerin Td Patch 24Hr 0.8 Mg Hr Nitroglycerin Td Patch 24Hr 0.1 Mg Hr Nitroglycerin Td Patch 24Hr 0.2 Mg Hr Nitroglycerin Td Patch 24Hr 0.3 Mg Hr Nitroglycerin Td Patch 24Hr 0.4 Mg Hr Nitroglycerin Td Patch 24Hr 0.6 Mg Hr Nitroglycerin Cap Cr 2.5 Mg Isosorbide Mononitrate Tab Sr 24Hr 60 Mg Nitroglycerin Oint 2% Isosorbide Dinitrate SI Tab 2.5 Mg Isosorbide Mononitrate Tab 20 Mg Nitroglycerin Tl Soln 0.4 Mg Spray (400 Mcg Spray) Isosorbide Dinitrate Tab 5 Mg Isosorbide Dinitrate Tab Cr 40 Mg Nitroglycerin Cap Cr 6.5 Mg Nitroglycerin SI Tab 0.3 Mg Nitroglycerin SI Tab 0.6 Mg



Nitroglycerin Isosorbide Mononitrate Isosorbide Dinitrate Amyl Nitrite Isosorbide Dinitrate Hydralazine Hcl **Other Antidiabetic Drugs** Sitagliptin Metformin Hcl Tab 50 1000 Mg Sitagliptin Metformin Hcl Tab 50 500 Mg Acarbose Tab 50 Mg Sitagliptin Metformin Hcl Tab Sr 24Hr 50 1000 Mg Pioglitazone Hcl Tab 15 Mg (Base Equiv) Fructose Dextrose Phosphoric Acid Oral Soln Rosiglitazone Maleate Glimepiride Tab 4 1 Mg Rosiglitazone Maleate Glimepiride Tab 4 2 Mg Rosiglitazone Maleate Glimepiride Tab 4 4 Mg Miglitol Tab 25 Mg Pioglitazone Hcl Tab 30 Mg (Base Equiv) Pioglitazone Hcl Tab 45 Mg (Base Equiv) Sitagliptin Phosphate Tab 100 Mg (Base Equiv) Rosiglitazone Maleate Tab 2 Mg (Base Equiv) Rosiglitazone Maleate Tab 4 Mg (Base Equiv) Rosiglitazone Maleate Tab 8 Mg (Base Equiv) Acarbose Tab 25 Mg Nateglinide Tab 120 Mg Repaglinide Tab 2 Mg Liraglutide Soln Pen Injector 18 Mg 3Ml (6 Mg Ml) Rosiglitazone Maleate Metformin Hcl Tab 4 500 Mg Pioglitazone Hcl Metformin Hcl Tab 15 850 Mg Nateglinide Tab 60 Mg Exenatide Inj 5 Mcg 0.02Ml Exenatide Inj 10 Mcg 0.04Ml Sitagliptin Phosphate **Pioglitazone Hcl** Pioglitazone Hcl Metformin Hcl Liraglutide Saxagliptin Hcl Saxagliptin Hcl Metformin Hcl Exenatide **Exenatide Microspheres Pramlintide Acetate** Empagliflozin Linagliptin Nateglinide Acarbose Alogliptin Benzoate Alogliptin Benzoate Pioglitazone Hcl Repaglinide Pioglitazone Hcl Glimepiride **Repaglinide Metformin Hcl** Saxagliptin Hydrochloride


Sitagliptin Phosphate Metformin Hcl Sitagliptin Phosphate Simvastatin Rosiglitazone Maleate Glimepiride Rosiglitazone Maleate Metformin Hcl Miglitol Rosiglitazone Maleate Linagliptin Linagliptin Metformin Hcl **Pioglitazone Glimepiride** Canagliflozin Mifepristone **Potassium Sparing Diuretics** Amiloride Hydrochlorothiazide Tab 5 50 Mg Triamterene Hydrochlorothiazide Tab 75 50 Mg Triamterene Hydrochlorothiazide Tab 37.5 25 Mg Triamterene Hydrochlorothiazide Cap 37.5 25 Mg Spironolactone Tab 25 Mg Triamterene Hydrochlorothiazide Cap 50 25 Mg Spironolactone Hydrochlorothiazide Tab 25 25 Mg Spironolactone Tab 100 Mg Spironolactone Tab 50 Mg Amiloride Hcl Tab 5 Mg Triamterene Hydrochlorothiazide Spironolactone Amiloride Hcl Triamterene Spironolactone Hydrochlorothiazide Amiloride Hcl Hydrochlorothiazide **Prescription Nonsteroidal Anti-Inflammatory Drugs** Naproxen Sodium Tab 220 Mg Ibuprofen Tab 200 Mg Ibuprofen Cap 200 Mg Diclofenac Sodium Gel 1% Naproxen Cream 10% (Compound Kit) Diclofenac Gabapentin Lidocaine Hcl Cream 5 5 2% (Cmpd Kit Naproxen Tab 250 Mg Naproxen Tab 375 Mg Naproxen Tab 500 Mg Naproxen Tab 500 Mg Liniment Topical Gel Kit Naproxen Tab Ec 500 Mg Ibuprofen Tab 400 Mg Naproxen Sodium Tab 550 Mg Diclofenac Sodium Tab Sr 24Hr 100 Mg Celecoxib Cap 200 Mg Meloxicam Tab 15 Mg Indomethacin Cap 25 Mg Flurbiprofen Cyclobenzaprine Cream (Cmpd Kit) Ketoprofen Baclofen Gabapentin Cream (Cmpd Kit) Ketoprofen Lidocaine Gabapentin Cream (Cmpd Kit)



Celecoxib Cap 100 Mg Ketoprofen Baclofen Gabapent Lido Crm 15 4 10 2% (Cmp Kit) Ibuprofen Tab 600 Mg Ibuprofen Tab 800 Mg Metaxalone Tab 800 Mg Diclofenac Sodium Soln 1.5% Kit Fenoprofen Calcium Cap 400 Mg Ketorolac Tromethamine Gel 2% (Cmpd Kit) (Base Equiv) Ketoprofen (Bulk) Cream 10% Diclofenac Sodium Tab Delayed Release 50 Mg Nabumetone Tab 500 Mg Ketorolac Tromethamine Tab 10 Mg Prasterone Cap 200 Mg Ibuprofen Tab 400 Mg Kit Diclofenac Sod Tab Dr 75 Mg Lido Men Methyl Sal Ptch Kit Etodolac Tab 400 Mg Indomethacin Cap 50 Mg Oxaprozin Tab 600 Mg Sulindac Tab 200 Mg Etodolac Tab 500 Mg Naproxen Sodium Tab 550 Mg Menthol Gel 2% Therapy Pack Flurbiprofen Baclofen Cycloben Lido Cream (Cmp Kit) Naproxen Tab 250 Mg Dietary Management Cap Pack Meloxicam Tab 7.5 Mg Dietary Management Cap Pack Piroxicam Cap 20 Mg Dietary Management Cap Pack Ibuprofen Tab 600 Mg Dietary Management Cap Pack Naproxen Tab 500 Mg Dietary Management Cap Pack Ibuprofen Tab 800 Mg Dietary Management Cap Pack Diclofenac Tab Dr 25 Mg Dietary Management Cap Pack Meloxicam Tab 7.5 Mg Ketoprofen Cap 75 Mg Ibuprofen Susp 100 Mg 5Ml Diclofenac Sodium Tab Delayed Release 75 Mg Nabumetone Tab 750 Mg Fluorouracil Diclofenac Sodium Cream 5 1% Tamoxifen Adapalene Diclofenac Cream 0.2 0.3 2% (Cmpd Kit) Amantadine Gabapent Diclofenac Baclofen Lido Cr (Cmpd Kit) Diclofenac Amitriptyline Prilo Lido Cream (Cmpd Kit) Diclofenac Tab 75Mg Ranitid Tab 150Mg Lido Prilo Cr Thpk Ketorolac Tromethamine Nasal Spray 15.75 Mg Spray Ibuprofen Tab 800 Mg Multiple Minerals Cap Therapy Pack Diclofenac Td Soln 1.5% Camph Men Methyl Sal Patch Kit Etodolac Tab Sr 24Hr 600 Mg Piroxicam Cap 20 Mg Naproxen Sodium Tab 275 Mg Flurbiprofen Tab 100 Mg Fenoprofen Calcium Tab 600 Mg Tolmetin Sodium Tab 600 Mg Tolmetin Sodium Cap 400 Mg Indomethacin Cap Cr 75 Mg Naproxen Sodium Cap 220 Mg



Meclofenamate Sodium Cap 50 Mg Meclofenamate Sodium Cap 100 Mg Sulindac Tab 150 Mg Diclofenac W Misoprostol Tab 75 0.2 Mg Diclofenac Sodium Tab Delayed Release 25 Mg Diclofenac Potassium Tab 50 Mg Etodolac Tab Sr 24Hr 500 Mg Piroxicam Cap 10 Mg Etodolac Cap 300 Mg Diclofenac W Misoprostol Tab 50 0.2 Mg Naproxen Esomeprazole Magnesium Tab Dr 375 20 Mg Naproxen Sodium Tab Sr 24Hr 375 Mg (Base Equiv) Naproxen Susp 125 Mg 5Ml Ketoprofen Cream 5% (Compound Kit) Diclofenac Potassium Cap 25 Mg Flurbiprofen Baclofen Lidocaine Cream 15 4 5% (Cmpd Kit) Ketoprofen Lidocaine Hcl Cream 10 2% (Compound Kit) Ketoprofen Lidocaine Gabapentin Cream 5 2 5% (Cmpd Kit) Ketoprofen Ketamine Lidocaine Cream 5 5 2% (Compounding Kit) Ketoprofen Ketamine Lidocaine Cream 5 5 2% (Compound Kit) Rofecoxib Tab 50 Mg Valdecoxib Tab 10 Mg Valdecoxib Tab 20 Mg Etodolac Tab Sr 24Hr 400 Mg Ibuprofen Cream 10% (Compounding Kit) Ketoprofen Cap Sr 24Hr 200 Mg Ketoprofen Tab 12.5 Mg Phenylbutazone Tab 100 Mg Rofecoxib Tab 25 Mg Fenoprofen Calcium Cap 200 Mg Indomethacin Suppos 50 Mg Naproxen Sodium Tab Sr 24Hr 500 Mg (Base Equiv) Rofecoxib Tab 12.5 Mg Etodolac Cap 200 Mg Flurbiprofen Tab 50 Mg Mefenamic Acid Cap 250 Mg Ketoprofen Cap 50 Mg Flurbiprofen Gabapent Cycloben Lido Dexameth Cr (Cmp Kit) Ibuprofen Celecoxib Etodolac Naproxen Sodium Ibuprofen Diphenhydramine Citrate Ibuprofen Diphenhydramine Hcl Meloxicam Nabumetone Diclofenac Sodium **Diclofenac Sodium Misoprostol** Mefenamic Acid



Indomethacin **Diclofenac Potassium** Naproxen Fenoprofen Calcium Indomethacin Submicronized Meloxicam Submicronized **Diclofenac Sodium Capsicum Oleoresin Ketorolac Tromethamine** Phenylephrine Hcl Ketorolac Tromethamine Naproxen Sodium Menthol Sumatriptan Succinate Naproxen Sodium Oxaprozin Naproxen Capsaicin Menthol Methyl Salicylate Naproxen Capsaicin Menthol Celecoxib Capsaicin Menthol Celecoxib Lidocaine Menthol Rofecoxib Sulindac Ketoprofen Flurbiprofen Valdecoxib **Tolmetin Sodium** Piroxicam Naproxen Esomeprazole Magnesium Lansoprazole Naproxen Meclofenamate Sodium Magnesium Carbonate Aluminum Hydroxide Alginic Acid **Diclofenac Submicronized** Ibuprofen Irritants Counter Irritants Combination #2 Meloxicam Irritants Counter Irritants Combination No.2 Naproxen Irritants Counter Irritants Combination #2 Ibuprofen Caffeine Vitamins B1 B2 B6 B12 Gold Sodium Thiomalate Naproxen Dietary Supplement Misc. Cb.11 Piroxicam Dietary Supplement Misc. Cb.11 Ibuprofen Dietary Supplement Misc. Cb.11 **Proton Pump Inhibitors** Esomeprazole Magnesium Cap Delayed Release 20 Mg (Base Eq) Omeprazole Cap Delayed Release 40 Mg Lansoprazole Pantoprazole Sodium Ec Tab 20 Mg (Base Equiv) Lansoprazole Cap Delayed Release 15 Mg Esomeprazole Magnesium Cap Delayed Release 40 Mg (Base Eq) Omeprazole Susp 2 Mg Ml (Compound Kit) Rabeprazole Sodium Ec Tab 20 Mg Lansoprazole Cap Delayed Release 30 Mg Pantoprazole Sodium Ec Tab 40 Mg (Base Equiv) Omeprazole Cap Delayed Release 20 Mg Lansoprazole Tab Delayed Release Orally Disintegrating 15 Mg



Lansoprazole Tab Delayed Release Orally Disintegrating 30 Mg Omeprazole Sodium Bicarbonate Cap 20 1100 Mg Esomeprazole Magnesium Cap Delayed Release 40 Mg Esomeprazole Magnesium Cap Delayed Release 20 Mg Omeprazole Delayed Release Tab 20 Mg Omeprazole Sodium Bicarbonate Cap 40 1100 Mg Omeprazole Cap Delayed Release 10 Mg Naproxen Esomeprazole Magnesium Tab Dr 375 20 Mg Dexlansoprazole Cap Delayed Release 60 Mg Dexlansoprazole Cap Delayed Release 30 Mg Omeprazole Magnesium Delayed Release Tab 20 Mg (Base Equiv) Esomeprazole Magnesium Lansoprazole Amoxicillin Trihydrate Clarithromycin Omeprazole Rabeprazole Sodium Pantoprazole Sodium **Omeprazole Magnesium Omeprazole Sodium Bicarbonate Esomeprazole Strontium** Omeprazole Clarithromycin Amoxicillin Trihydrate Naproxen Esomeprazole Magnesium Esomeprazole Mag Trihydrate Lansoprazole Naproxen Dexlansoprazole Colchicine

#### SSRI Depressants

Citalopram Hydrobromide Tab 20 Mg (Base Equiv) Escitalopram Oxalate Tab 10 Mg (Base Equiv) Escitalopram Tab 10 Mg Methylfolate B12 B6 D Cap Thpk Fluoxetine Hcl Cap 20 Mg Paroxetine Hcl Tab 30 Mg Fluoxetine Hcl Cap 10 Mg Citalopram Hydrobromide Tab 40 Mg (Base Equiv) Paroxetine Hcl Tab 10 Mg Paroxetine Hcl Tab 20 Mg Paroxetine Hcl Tab 40 Mg Escitalopram Oxalate Tab 20 Mg (Base Equiv) Paroxetine Hcl Tab Sr 24Hr 25 Mg Sertraline Hcl Tab 50 Mg Fluoxetine Hcl Cap 40 Mg Sertraline Hcl Tab 25 Mg Sertraline Hcl Tab 100 Mg Fluvoxamine Maleate Tab 50 Mg Fluvoxamine Maleate Tab 100 Mg Fluvoxamine Maleate Tab 25 Mg Fluoxetine Hcl Solution 20 Mg 5Ml Citalopram Hydrobromide Tab 10 Mg (Base Equiv) Escitalopram Oxalate Tab 5 Mg (Base Equiv) Paroxetine Hcl Tab Sr 24Hr 37.5 Mg



Fluvoxamine Maleate Cap Sr 24Hr 150 Mg Fluoxetine Hcl Tab 20 Mg Paroxetine Hcl Tab Sr 24Hr 12.5 Mg Fluoxetine Hcl Tab 10 Mg Fluoxetine Hcl Tab 60 Mg Citalopram Tab 10 Mg Dietary Management Cap Pack Fluoxetine Hcl Cap 10 Mg Dietary Management Cap Pack Fluvoxamine Maleate **Escitalopram Oxalate** Citalopram Hydrobromide Fluoxetine Hcl Paroxetine Hcl Sertraline Hcl **Olanzapine Fluoxetine Hcl** Zaleplon Paroxetine Mesylate Fluoxetine Hcl Dietary Supplement Misc Comb17 Fluoxetine Hcl Dietary Supplement Misc.Combo8

#### Statins

Atorvastatin Calcium Tab 10 Mg (Base Equivalent) Atorvastatin Calcium Tab 20 Mg (Base Equivalent) Atorvastatin Calcium Tab 40 Mg (Base Equivalent) Atorvastatin Calcium Tab 80 Mg (Base Equivalent) Simvastatin Tab 40 Mg Pravastatin Sodium Tab 20 Mg Pravastatin Sodium Tab 40 Mg Lovastatin Tab 10 Mg Simvastatin Tab 20 Mg Rosuvastatin Calcium Tab 20 Mg Pravastatin Sodium Tab 10 Mg Lovastatin Tab 20 Mg Lovastatin Tab 40 Mg Simvastatin Tab 10 Mg Atorvastatin Tab 20 Mg Coenzyme Q10 Cap 100 Mg Ther Pack Simvastatin Tab 80 Mg Fluvastatin Sodium Cap 20 Mg Simvastatin Tab 5 Mg Rosuvastatin Calcium Tab 10 Mg Ezetimibe Simvastatin Tab 10 20 Mg Pravastatin Sodium Tab 80 Mg Rosuvastatin Calcium Tab 5 Mg Ezetimibe Simvastatin Tab 10 40 Mg Ezetimibe Simvastatin Tab 10 80 Mg Fluvastatin Sodium Cap 40 Mg Rosuvastatin Calcium Tab 40 Mg Atorvastatin Calcium Amlodipine Besylate Atorvastatin Calcium **Fluvastatin Sodium** Lovastatin



Pravastatin Sodium Simvastatin Rosuvastatin Calcium Ezetimibe Atorvastatin Calcium Pitavastatin Calcium Aspirin Calcium Carbonate Magnesium Pravastatin Sitagliptin Phosphate Simvastatin Niacin Lovastatin Niacin Simvastatin Ezetimibe Simvastatin

## Sulfonyureas

Glyburide Tab 2.5 Mg Glipizide Tab Sr 24Hr 5 Mg Glipizide Tab Sr 24Hr 10 Mg Glimepiride Tab 1 Mg Glyburide Metformin Tab 2.5 500 Mg Glipizide Tab 10 Mg Glipizide Tab 5 Mg Glyburide Metformin Tab 5 500 Mg Glyburide Tab 5 Mg Bulk Chemicals Powder Rosiglitazone Maleate Glimepiride Tab 4 1 Mg Rosiglitazone Maleate Glimepiride Tab 4 2 Mg Rosiglitazone Maleate Glimepiride Tab 4 4 Mg Chlorpropamide Tab 100 Mg Chlorpropamide Tab 250 Mg Glyburide Micronized Tab 1.5 Mg Glipizide Tab Sr 24Hr 2.5 Mg Glimepiride Tab 4 Mg Glimepiride Tab 2 Mg Glipizide Metformin Hcl Tab 2.5 500 Mg Glipizide Metformin Hcl Tab 5 500 Mg Tolazamide Tab 250 Mg Tolazamide Tab 500 Mg Glyburide Micronized Tab 3 Mg Glyburide Tab 1.25 Mg Glyburide Micronized Tab 6 Mg Tolazamide Tab 100 Mg Glipizide Glimepiride Triamterene Hydrochlorothiazide **Glyburide Metformin Hcl** Glyburide Pioglitazone Hcl Glimepiride Rosiglitazone Maleate Glimepiride Tolazamide **Glyburide Micronized** Chlorpropamide Glipizide Metformin Hcl



Glyburide Micronized Metformin Hcl Tolbutamide Acetohexamide Pioglitazone Glimepiride

Buspirone Hcl

## **Thiazide Diuretics**

Telmisartan Hydrochlorothiazide Tab 40 12.5 Mg Telmisartan Hydrochlorothiazide Tab 80 12.5 Mg Telmisartan Hydrochlorothiazide Tab 80 25 Mg Triamterene Hydrochlorothiazide Tab 75 50 Mg Bisoprolol Hydrochlorothiazide Tab 5 6.25 Mg Hydrochlorothiazide Tab 25 Mg Chlorthalidone Tab 25 Mg Amiloride Hydrochlorothiazide Tab 5 50 Mg Triamterene Hydrochlorothiazide Tab 37.5 25 Mg Hydrochlorothiazide Tab 50 Mg Triamterene Hydrochlorothiazide Cap 37.5 25 Mg Losartan Potassium Hydrochlorothiazide Tab 100 25 Mg Lisinopril Hydrochlorothiazide Tab 20 25 Mg Losartan Potassium Hydrochlorothiazide Tab 100 12.5 Mg Hydrochlorothiazide Cap 12.5 Mg Lisinopril Hydrochlorothiazide Tab 20 12.5 Mg Lisinopril Hydrochlorothiazide Tab 10 12.5 Mg Bisoprolol Hydrochlorothiazide Tab 10 6.25 Mg Bisoprolol Hydrochlorothiazide Tab 2.5 6.25 Mg Enalapril Maleate Hydrochlorothiazide Tab 5 12.5 Mg Enalapril Maleate Hydrochlorothiazide Tab 10 25 Mg Polythiazide Tab 1 Mg Polythiazide Tab 2 Mg Quinapril Hydrochlorothiazide Tab 20 12.5 Mg Quinapril Hydrochlorothiazide Tab 10 12.5 Mg Quinapril Hydrochlorothiazide Tab 20 25 Mg Methyclothiazide Tab 5 Mg Indapamide Tab 2.5 Mg Indapamide Tab 1.25 Mg Hydrochlorothiazide Tab 100 Mg Captopril Hydrochlorothiazide Tab 25 15 Mg Captopril Hydrochlorothiazide Tab 50 25 Mg Propranolol Hydrochlorothiazide Tab 40 25 Mg Atenolol Chlorthalidone Tab 50 25 Mg Atenolol Chlorthalidone Tab 100 25 Mg Chlorothiazide Tab 500 Mg Hydralazine Reserpine Hydrochlorothiazide Tab 25 0.1 15 Mg Triamterene Hydrochlorothiazide Cap 50 25 Mg Spironolactone Hydrochlorothiazide Tab 25 25 Mg Valsartan Hydrochlorothiazide Tab 80 12.5 Mg Valsartan Hydrochlorothiazide Tab 160 12.5 Mg Valsartan Hydrochlorothiazide Tab 160 25 Mg Benazepril Hydrochlorothiazide Tab 10 12.5 Mg



Losartan Potassium Hydrochlorothiazide Tab 50 12.5 Mg Irbesartan Hydrochlorothiazide Tab 150 12.5 Mg Valsartan Hydrochlorothiazide Tab 320 25 Mg Hydrochlorothiazide Tab 12.5 Mg Metolazone Tab 2.5 Mg Metolazone Tab 5 Mg Reserpine Hydrochlorothiazide Tab 0.125 25 Mg Methyldopa Hydrochlorothiazide Tab 250 25 Mg Benazepril Hydrochlorothiazide Tab 5 6.25 Mg Benazepril Hydrochlorothiazide Tab 20 12.5 Mg Benazepril Hydrochlorothiazide Tab 20 25 Mg Reserpine Hydrochlorothiazide Tab 0.125 50 Mg Fosinopril Sodium Hydrochlorothiazide Tab 20 12.5 Mg Bendroflumethiazide Rauwolfia Tab 4 50 Mg Methyldopa Hydrochlorothiazide Tab 250 15 Mg Trichlormethiazide Tab 4 Mg Candesartan Cilexetil Hydrochlorothiazide Tab 32 12.5 Mg Valsartan Hydrochlorothiazide Tab 320 12.5 Mg Metoprolol Hydrochlorothiazide Tab 50 25 Mg Losartan Potassium Hydrochlorothiazide Valsartan Hydrochlorothiazide Amlodipine Besylate Valsartan Hydrochlorothiazide Triamterene Hydrochlorothiazide Benazepril Hcl Hydrochlorothiazide Enalapril Maleate Hydrochlorothiazide Hydrochlorothiazide Bisoprolol Fumarate Hydrochlorothiazide Telmisartan Hydrochlorothiazide Metoprolol Tartrate Hydrochlorothiazide Quinapril Hcl Hydrochlorothiazide Indapamide Lisinopril Hydrochlorothiazide Atenolol Chlorthalidone Metolazone Chlorthalidone Irbesartan Hydrochlorothiazide Metoprolol Succinate Hydrochlorothiazide Azilsartan Medoxomil Chlorthalidone Spironolactone Hydrochlorothiazide Isosorbide Dinitrate Hydralazine Hcl Captopril Hydrochlorothiazide Bendroflumethiazide Timolol Maleate Hydrochlorothiazide Chlorothiazide Methyldopa Hydrochlorothiazide Methyldopa Chlorothiazide Amiloride Hcl Hydrochlorothiazide Methyclothiazide Propranolol Hcl Hydrochlorothiazide



Prazosin Hcl Polythiazide Eprosartan Mesylate Hydrochlorothiazide Deserpidine Methyclothiazide Aliskiren Hemifumarate Hydrochlorothiazide Aliskiren Hemifumarate Amlodipine Hydrochlorothiazide Fosinopril Sodium Hydrochlorothiazide Moexipril Hcl Hydrochlorothiazide Nadolol Bendroflumethiazide Candesartan Cilexetil Hydrochlorothiazide Clonidine Hcl Chlorthalidone Hydralazine Hcl Hydrochlorothiazide Hydroflumethiazide Hydroflumethiazide Spironolactone



Query Period: October 19, 2010 - September 30, 2015 Coverage Requirement: Medical and drug coverage Enrollment Requirement: 183 days Enrollment Gap: 45 days Age Groups: 65-74, 75-84, 85+ years Additional Programming Needed: Risk scores, daily dose requirement								
		Thromboembolic stroke						
D /5	Compa	arison 1	Compa	rison 2	Compa	arison 3		
Drug/Exposure	Diversysher	Dahigatran	Diverevelan	Anivahan	Dahigatran	Anivahan		
Exposure/Comparator	Rivaroxaban	Dabigatran	Rivaroxaban	Apixaban Twice deily	Dabigatran	Apixaban Twice deily		
Daily Dose Requirement Incident with Respect to:	Once daily	Twice daily	Once daily	Twice daily	Twice daily	Twice daily		
incident with Respect to:		rivaroxaban, edoxaban, (all doses)	Apixaban, dabigatran, i warfarin (	rivaroxaban, edoxaban, (all doses)		rivaroxaban, edoxaban, (all doses)		
Incidence Assessment	Dispensing date or days supply		Dispensing date	e or days supply	Dispensing date	e or days supply		
Washout (days)	1	83	18	33	1	83		
Cohort Definition	First valid incident	t exposure episode	First valid incident exposure episode		First valid incident exposure episode			
Stockpiling Overlapping Claims	33	3%	33%		33%			
Episode Gap (Days)		3	3		3			
Episode Extension Period (Days)		3	3	3	3			
Minimum Episode Duration (Days)		1	1		1			
Maximum Episode Duration (Days)	No	one	None		None			
Minimum Days Supplied (Days)		1		1	1			
Censor Criteria	Death,		Death,		Death,			
	Query end date,		Query end date,		Query end date,			
	Disenrollment,		Disenrollment,		Disenrollment,			
	Event,		Event,		Event,			
	End of exposure episod	e,	End of exposure episode	2,	End of exposure episode	e,		
	Comparator drug disper	nsing,	Comparator drug dispen	ising,	Comparator drug disper	nsing,		
	Low-dose of current exp		Low-dose of current exp	oosure,	Low-dose of current exp			
	Warfarin dispensing,		Warfarin dispensing,		Warfarin dispensing,			
	Edoxaban dispensing,		Edoxaban dispensing,		Edoxaban dispensing,			
	Apixaban dispensing,		Apixaban dispensing,		Apixaban dispensing,			
	Kidney transplant,		Kidney transplant,		Kidney transplant,			
	Dialysis,		Dialysis,		Dialysis,			
	Non-acute Institutional		IS encounter,		IS encounter,			
	Major extracranial blee hemorrhage, Intracrania	-	Major extracranial bleed hemorrhage, Intracrania	•	Major extracranial bleed hemorrhage, Intracrania	•		



Appendix I. Specifications Defining Paramete	rs Used in this Request					
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat	ion or flutter	Atrial fibrillation or flutter		Atrial fibrillation or flutter	
Include/Exclude	Include		Incl	lude	Incl	ude
Care Setting/Primary Diagnosis	Ar	ıy	A	ny	A	ny
Lookback Period	-18	3, 0	-18	3, 0	-18	3, 0
Pre-Existing Condition						
	Levelan et al anti-	Laura da estada bitanteses	t and along the second and	Law, data anti-data	Laurala estala hitaratura.	Laura da sa anti-shan
	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose rivaroxaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	dabigatran, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Excl	ude	Fvc	lude	Fvc	ude
Lookback Period	0.		-	. 0		0
Pre-Existing Condition	Institutional s	-	- ,	-	- /	
Include/Exclude	Excl	•	Institutional stay encounter Exclude		Institutional stay encounter Exclude	
Lookback Period	0,		0, 0		0, 0	
Pre-Existing Condition	Dialysis,	0	Dialysis,		Dialysis,	
	Kidney replacement,		Kidney replacement,		Kidney replacement,	
	Deep vein thrombosis,		Deep vein thrombosis,		Deep vein thrombosis,	
	Pulmonary embolism,		Pulmonary embolism,		Pulmonary embolism,	
	Joint replacement,		Joint replacement,		Joint replacement,	
	Mitral stenosis,		Mitral stenosis,		Mitral stenosis,	
	Valve replacement,		Valve replacement,		Valve replacement,	
	•		Valve repair		Valve repair	
Include/Exclude	Valve repair Excl	ude		lude		ude
Care Setting/Primary Diagnosis	Any, except AV		Any, except AV/OA for dialysis		Any, except AV/OA for dialysis	
Lookback Period	-18			3, 0		3, 0
Event/Outcome		5) 0	10			.,
Event/Outcome	Thromboem	bolic stroke	Thromboen	nbolic stroke	Thromboen	bolic stroke
Care Setting/Primary Diagnosis	IP			pp	IF	
Washout (days)	(			0		)
Blackout Period	0			1		l
Propensity Score Matching						
Covariates	See App	oendix J	See Ap	pendix J	See Ap	oendix J
Matching Ratio						:1
	1:1		1:1 0.05		0.05	
Matching Caliper Settings	0.0	05	0.	05	0.	05



Subgroup Analyses				
Stratifying variable	Age group	Age group Age group		
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Sex	Sex	Sex	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Antiplatelet drug use	Antiplatelet drug use	Antiplatelet drug use	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	HAS-BLED score	HAS-BLED score	HAS-BLED score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	

<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 on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b)** one code from "MEB\_2" in the primary inpatient position on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b**) 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

<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



Query Period: October 19, 2010 - September 30, 2015 Coverage Requirement: Medical and drug coverage Enrollment Requirement: 183 days Enrollment Gap: 45 days Age Groups: 65-74, 75-84, 85+ years Additional Programming Needed: Risk scores, daily dose requirement								
		Major Extracranial Bleeding						
Drug/Exposure	Compa	Comparison 4 Comparison 5 Comparison						
Exposure/Comparator Daily Dose Requirement	Rivaroxaban Once daily	Dabigatran Twice daily	Rivaroxaban Once daily	Apixaban Twice daily	Dabigatran Twice daily	Apixaban Twice daily		
Incident with Respect to:	, Apixaban, dabigatran,	rivaroxaban, edoxaban, (all doses)	, Apixaban, dabigatran, ı	rivaroxaban, edoxaban, (all doses)	,	, rivaroxaban, edoxaban,		
Incidence Assessment Washout (days)	Dispensing date	Dispensing date or days supply 183 183 183		Dispensing date	e or days supply 33			
Cohort Definition Stockpiling Overlapping Claims		: exposure episode 3%		: exposure episode 3%	First valid incident exposure episode 33%			
Episode Gap (Days) Episode Extension Period (Days)		3		3	3 3			
Minimum Episode Duration (Days) Maximum Episode Duration (Days)		1 one	No	1 one	1 None			
Minimum Days Supplied (Days)		1			1			
Censor Criteria	Death, Query end date, Disenrollment, Event, End of exposure episode Comparator drug disper Low-dose of current exp Warfarin dispensing, Edoxaban dispensing, Kidney transplant, Dialysis, IS encounter, Thromboembolic stroke hemorrhage, Intracrania	e, nsing, posure, r, Gastrointestinal	Death, Query end date, Disenrollment, Event, End of exposure episode Comparator drug dispen Low-dose of current exp Warfarin dispensing, Edoxaban dispensing, Apixaban dispensing, Kidney transplant, Dialysis, IS encounter, Thromboembolic stroke hemorrhage, Intracrania	e, ising, bosure, , Gastrointestinal	Death, Query end date, Disenrollment, Event, End of exposure episode Comparator drug disper Low-dose of current exp Warfarin dispensing, Edoxaban dispensing, Apixaban dispensing, Kidney transplant, Dialysis, IS encounter, Thromboembolic stroke hemorrhage, Intracrania	e, ising, iosure, , Gastrointestinal		



Appendix I. Specifications Defining Paramete	ers Used in this Request					
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillation or flutter		Atrial fibrillation or flutter		Atrial fibrillation or flutter	
Include/Exclude	Incl	ude	Inc	lude	Incl	ude
Care Setting/Primary Diagnosis	A	лy	A	ny	A	ny
Lookback Period	-18	3, 0	-18	3, 0	-18	3, 0
Pre-Existing Condition						
	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose rivaroxaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	dabigatran, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include (Evelude	Evel	uda	Evo	ludo	Бую.	luda
Include/Exclude		ude		lude		lude
Lookback Period	0,			, 0		. 0
Pre-Existing Condition	Institutional s			tay encounter		tay encounter
Include/Exclude		ude	Exclude		Exclude	
Lookback Period	0,	0		, 0	0, 0	
Pre-Existing Condition	Dialysis,		Dialysis,		Dialysis,	
	Kidney replacement,		Kidney replacement,		Kidney replacement,	
	Deep vein thrombosis,		Deep vein thrombosis,		Deep vein thrombosis,	
	Pulmonary embolism,		Pulmonary embolism,		Pulmonary embolism,	
	Joint replacement,		Joint replacement,		Joint replacement,	
	Mitral stenosis,		Mitral stenosis,		Mitral stenosis,	
	Valve replacement,		Valve replacement,		Valve replacement,	
	Valve repair		Valve repair		Valve repair	
Include/Exclude	Excl	ude	Exc	lude	Exc	lude
Care Setting/Primary Diagnosis	Any, except AV	/OA for dialysis	Any, except AV/OA for dialysis		Any, except AV/OA for dialysis	
Lookback Period	-18	3, 0	-18	3, 0	-18	3, 0
Event/Outcome						
Event/Outcome	Major Extracra	anial Bleeding <sup>1</sup>	Major Extract	anial Bleeding <sup>1</sup>	Major Extracr	anial Bleeding <sup>1</sup>
Care Setting/Primary Diagnosis	IF	P	IF	р	IF	Р
Washout (days)	0			0		0
Blackout Period		L	1			1
Propensity Score Matching						
Covariates	See App	pendix J	See Ap	pendix J	See Ap	pendix J
Matching Ratio	1			:1		:1
Matching Caliper Settings	0.	05	0.	05	0.	05
Analysis Type	Conditional and			d unconditional		d unconditional



Subgroup Analyses				
Stratifying variable	Age group	Age group Age group		
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Sex	Sex	Sex	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Antiplatelet drug use	Antiplatelet drug use	Antiplatelet drug use	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	HAS-BLED score	HAS-BLED score	HAS-BLED score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	

<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 on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b)** one code from "MEB\_2" in the primary inpatient position on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b**) 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 AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the same day AND no code from "MEB\_trauma\_exclusion" on the sam

<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



Query Period: October 19, 2010 - September 30, 2015 Coverage Requirement: Medical and drug coverage Enrollment Requirement: 183 days Enrollment Gap: 45 days Age Groups: 65-74, 75-84, 85+ years Additional Programming Needed: Risk scores, daily dose requirement								
		Gastrointestinal Hemorrhage						
Dura (European	Сотра	Comparison 7 Comparison 8 Comparison						
Drug/Exposure Exposure/Comparator	Rivaroxaban	Dabigatran	Rivaroxaban	Apixaban	Dabigatran	Apixaban		
Daily Dose Requirement	Once daily	Twice daily	Once daily	Twice daily	Twice daily	Twice daily		
Incident with Respect to:			•		,			
incluent with Respect to.		rivaroxaban, edoxaban, (all doses)		rivaroxaban, edoxaban, (all doses)		rivaroxaban, edoxaban, (all doses)		
Incidence Assessment	Dispensing date	Dispensing date or days supply Dispensing date or days supply		Dispensing date	e or days supply			
Washout (days)	183		18	83	18	33		
Cohort Definition	First valid incident	t exposure episode	First valid incident	exposure episode	First valid incident exposure episode			
Stockpiling Overlapping Claims	33	33% 33%		3%	33%			
Episode Gap (Days)		3	3	3		3		
Episode Extension Period (Days)		3	3	3		3		
Minimum Episode Duration (Days)		1	1		:	1		
Maximum Episode Duration (Days)	No	one	None		No	one		
Minimum Days Supplied (Days)		1		1	1			
Censor Criteria	Death,		Death,		Death,			
	Query end date,		Query end date,		Query end date,			
	Disenrollment,		Disenrollment,		Disenrollment,			
	Event,		Event,		Event,			
	End of exposure episod		End of exposure episode		End of exposure episode			
	Comparator drug disper	-	Comparator drug disper		Comparator drug disper	-		
	Low-dose of current exp	posure,	Low-dose of current exp	oosure,	Low-dose of current exp	oosure,		
	Warfarin dispensing,		Warfarin dispensing,		Warfarin dispensing,			
	Edoxaban dispensing,		Edoxaban dispensing,		Edoxaban dispensing,			
	Apixaban dispensing,		Apixaban dispensing,		Apixaban dispensing,			
	Kidney transplant,		Kidney transplant,		Kidney transplant,			
	Dialysis,		Dialysis,		Dialysis,			
	IS encounter,		IS encounter,		IS encounter,			
	Thromboembolic stroke		Thromboembolic stroke		Thromboembolic stroke			
	Major extracranial blee	aing, Intracranial	Major extracranial bleed	ling, Intracranial	Major extracranial bleed	aing, Intracranial		
	hemorrhage		hemorrhage		hemorrhage			



Appendix I. Specifications Defining Parame	eters Used in this Request					
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat	Atrial fibrillation or flutter		tion or flutter	Atrial fibrillation or flutter	
Include/Exclude	Incl	Include		ude	Incl	ude
Care Setting/Primary Diagnosis	A	ny	A	ny	A	ny
Lookback Period	-18	3, 0	-18	3, 0	-18	3, 0
Pre-Existing Condition						
	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose rivaroxaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	dabigatran, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Evo	lude	Evo	lude	Evo	lude
Lookback Period		. 0	-	. 0		. 0
Pre-Existing Condition	- 1	tay encounter	-	tay encounter	- ,	-
Include/Exclude		lude			Institutional stay encounter Exclude	
Lookback Period	-	, 0	Exclude 0, 0		0, 0	
Pre-Existing Condition	Dialysis,	, 0	0, 0 Dialysis,		Dialysis,	
Pre-Existing condition	Kidney replacement,		Kidney replacement,		Kidney replacement,	
	Deep vein thrombosis,		Deep vein thrombosis,		Deep vein thrombosis,	
	Pulmonary embolism,		Pulmonary embolism,		Pulmonary embolism,	
	Joint replacement,		Joint replacement,		Joint replacement,	
	Mitral stenosis,		Mitral stenosis,		Mitral stenosis,	
	Valve replacement,		,		,	
			Valve replacement,		Valve replacement,	
Include/Exclude	Valve repair	lude	Valve repair	lude	Valve repair	ludo
Care Setting/Primary Diagnosis		/OA for dialysis	Any, except AV/OA for dialysis		Exclude Any, except AV/OA for dialysis	
Lookback Period		3, 0		3, 0		3, 0
Event/Outcome	10	5,0	10	5,0	10	5,0
Event/Outcome	Castrointostin	al hemorrhage <sup>2</sup>	Castrointostin	al hemorrhage <sup>2</sup>	Castrointoctin	al hemorrhage <sup>2</sup>
Care Setting/Primary Diagnosis		pp		op		op
Washout (days)		) )		0		0
Blackout Period		1		1		1
Propensity Score Matching		<u>.</u>		÷		<u>-</u>
Covariates	See An	pendix J	See An	pendix J	ςοο Δη	pendix J
Matching Ratio		:1		:1		:1
Matching Caliper Settings	-	05		05		05
Analysis Type		d unconditional				
Analysis Type	Conditional an	unconuntional	Conditional and unconditional		Conditional and unconditional	



Subgroup Analyses				
Stratifying variable	Age group	Age group	Age group	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Sex	Sex	Sex	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Antiplatelet drug use	Antiplatelet drug use	Antiplatelet drug use	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	HAS-BLED score	HAS-BLED score	HAS-BLED score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	

<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 on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b)** one code from "MEB\_2" in the primary inpatient position on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) one code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1

<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



Query Period: October 19, 2010 - September 30, 2015 Coverage Requirement: Medical and drug coverage Enrollment Requirement: 183 days Enrollment Gap: 45 days Age Groups: 65-74, 75-84, 85+ years Additional Programming Needed: Risk scores, daily dose requirement								
		Intracranial Hemorrhage						
	Compa	Comparison 10 Comparison 11 Comparison						
Drug/Exposure Exposure/Comparator	Rivaroxaban	Dabigatran	Rivaroxaban	Apixaban	Dabigatran	Apixaban		
Daily Dose Requirement	Once daily	Twice daily	Once daily	Twice daily	Twice daily	Twice daily		
Incident with Respect to:		•		•	,			
incluent with hespect to.		rivaroxaban, edoxaban, (all doses)		rivaroxaban, edoxaban, (all doses)	warfarin	rivaroxaban, edoxaban, (all doses)		
Incidence Assessment	Dispensing date	e or days supply	Dispensing date	e or days supply	Dispensing date	e or days supply		
Washout (days)	1	83	18	83	18	33		
Cohort Definition	First valid incident	t exposure episode	First valid incident	t exposure episode	First valid incident exposure episode			
Stockpiling Overlapping Claims	33	3%	33%		33%			
Episode Gap (Days)		3	3		3			
Episode Extension Period (Days)		3	:	3	:	3		
Minimum Episode Duration (Days)		1	:	1	1	1		
Maximum Episode Duration (Days)	No	one	None		No	one		
Minimum Days Supplied (Days)		1		1	1			
Censor Criteria	Death,		Death,		Death,			
	Query end date,		Query end date,		Query end date,			
	Disenrollment,		Disenrollment,		Disenrollment,			
	Event,		Event,		Event,			
	End of exposure episode	-	End of exposure episode		End of exposure episode			
	Comparator drug disper	_	Comparator drug disper	-	Comparator drug disper	-		
	Low-dose of current exp	oosure,	Low-dose of current exp	oosure,	Low-dose of current exp	oosure,		
	Warfarin dispensing,		Warfarin dispensing,		Warfarin dispensing,			
	Edoxaban dispensing,		Edoxaban dispensing,		Edoxaban dispensing,			
	Apixaban dispensing,		Apixaban dispensing,		Apixaban dispensing,			
	Kidney transplant, Dialysis,		Kidney transplant, Dialysis,		Kidney transplant, Dialysis,			
	IS encounter,		IS encounter,		IS encounter,			
	Thromboembolic stroke		Thromboembolic stroke		Thromboembolic stroke			
	Major extracranial bleed		Major extracranial bleed		Major extracranial bleed			
	hemorrhage		hemorrhage	ano, eastrontestinar	hemorrhage	, castronicestinal		



Appendix I. Specifications Defining Parame	ters Used in this Request						
Inclusion/Exclusion							
Pre-Existing Condition	Atrial fibrillat	tion or flutter	Atrial fibrilla	Atrial fibrillation or flutter		Atrial fibrillation or flutter	
Include/Exclude	Incl	ude	Inc	lude	Incl	ude	
Care Setting/Primary Diagnosis	A	ny	A	ny	A	ny	
Lookback Period	-18	3, 0	-18	3, 0	-18	3, 0	
Pre-Existing Condition							
	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose rivaroxaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,	
	dabigatran, apixaban,	rivaroxaban, apixaban,	dabigatran, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	
Include/Exclude	Fvc	ude	Evo	lude	Fvc	ude	
Lookback Period		0		, 0		0	
Pre-Existing Condition	Institutional s			,			
_		lude	Institutional stay encounter Exclude		Institutional stay encounter Exclude		
Include/Exclude Lookback Period	0		0, 0		0, 0		
Pre-Existing Condition	Dialysis,	0	Dialysis,	, 0	Dialysis,		
Pre-Existing Condition	Kidney replacement,		Kidney replacement,		Kidney replacement,		
	Deep vein thrombosis,		Deep vein thrombosis,		Deep vein thrombosis,		
	Pulmonary embolism,		Pulmonary embolism,		Pulmonary embolism,		
	Joint replacement,		Joint replacement,		Joint replacement,		
	Mitral stenosis,		Mitral stenosis,		Mitral stenosis,		
	,		,		Valve replacement,		
	Valve replacement,		Valve replacement,		•		
Include/Exclude	Valve repair	ude	Valve repair	ludo	Valve repair	lude	
Care Setting/Primary Diagnosis	Any, except AV		Exclude				
Lookback Period		3, 0	Any, except AV/OA for dialysis -183, 0		Any, except AV/OA for dialysis -183, 0		
Event/Outcome	10	5,0	10	5,0	10	5,0	
Event/Outcome	Intracranial	Hemorrhage	Intracranial	Hemorrhage	Intracranial	Hemorrhage	
Care Setting/Primary Diagnosis		PP		-	Intracranial Hemorrhage		
Washout (days)			IPP 0		IPP 0		
Blackout Period	0 1			1		1	
Propensity Score Matching		-		-			
Covariates	See Ap	pendix I	See An	pendix J	See Ap	oendix I	
Matching Ratio		:1		:1		:1	
Matching Caliper Settings	0.			.05	0.		
Analysis Type		d unconditional		d unconditional			
	conditional and	a anconational	contributional an	a unconditional	Conditional and unconditional		



appendix in opening and the				
Subgroup Analyses				
Stratifying variable	Age group	Age group Age group		
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Sex	Sex	Sex	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	Antiplatelet drug use	Antiplatelet drug use	Antiplatelet drug use	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	CHA <sub>2</sub> DS <sub>2</sub> -VASc score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	
Stratifying variable	HAS-BLED score	HAS-BLED score	HAS-BLED score	
Re-matching	Re-matching should be done with the matched	Re-matching should be done with the matched	Re-matching should be done with the matched	
	cohort	cohort	cohort	

<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 on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b)** one code from "MEB\_2" in the primary inpatient position on the same day AND no code from "MEB\_trauma\_exclusion" on the same day OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) 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 OR **b**) one code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1" in secondary or unspecified inpatient position on the same day AND no code from "MEB\_1

<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

# Appendix J. Baseline Covariate Groups Evaluated in this Request

Covariate	Evaluation Window	Care Settings <sup>1</sup>
Age (continuous)	Index date	-
Age-group		
65-74	Index date	-
75-84	Index date	-
85+	Index date	-
Female	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	Index date	
Islander		-
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	-
Medical comorbidities		
Diabetes	-183 to 0	Any
Hypercholesterolemia	-183 to 0	Any
Hypertension	-183 to 0	Any
Kidney failure		
Acute	-183 to 0	Any
Chronic	-183 to 0	Any
Obesity	-183 to 0	Any
Peptic ulcer disease	-183 to 0	Any
Prior hospitalized bleeding	-183 to 0	IPP
Nicotine dependency	-183 to 0	Any
Cardiovascular disease	105 (0 0	,,
Acute myocardial infarction		
Past 1-30 days	-30 to 0	IPP or IPS
Past 31-183 days	-183 to -31	IPP or IPS
Coronary revascularization	-183 to 0	Any
Heart failure	-185 (0 0	711 <b>y</b>
Hospitalized	-183 to 0	IP or ED
·	-183 to 0	AV or OA
Outpatient Other ischemic heart disease	-183 to 0	Avorod
Stroke	-103 (0 0	Ацу
	20 +~ 0	IPP
Past 1-30 days	-30 to 0	
Past 31-183 days	-183 to -31	IPP
Other	400 +- 0	A
Transient ischemic attack	-183 to 0	Any
Cardioablation	-183 to 0	Any
Cardioversion	-183 to 0	Any

Covariate	<b>Evaluation Window</b>	Care Settings <sup>1</sup>
Other medical conditions		
Falls	-183 to 0	Any
Fractures	-183 to 0	Any
Syncope	-183 to 0	Any
Walker use	-183 to 0	Any
HA <sub>2</sub> DS <sub>2</sub> -VASc score <sup>2</sup>		
0-1	-183 to 0	-
2	-183 to 0	-
3	-183 to 0	-
4	-183 to 0	-
5	-183 to 0	-
_ ≥6	-183 to 0	-
IAS-BLED score <sup>3</sup>	200 10 0	
0-1	-183 to 0	_
2	-183 to 0	_
3	-183 to 0	_
		-
≥4 Aedication use	-183 to 0	-
General	102 to 0	
Estrogen replacement	-183 to 0	-
H2-antagonists	-183 to 0	-
Nonsteroidal anti-inflammatory drugs (NSAIDs)	-183 to 0	_
Proton pump inhibitors	-183 to 0	_
	-183 to 0	
Selective Serotonin Reuptake Inhibitor (SSRI) antidepressants	-185 (0 0	
Cardiovascular		
	192 + 0	
Angiotensin-converting-enzyme	-183 to 0	
inhibitors (ACEI)/Angiotensin II		
Receptor Blockers (ARB)	402 +- 0	-
Antiarrhythmics	-183 to 0	-
Anticoagulants (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	-
Potassium sparing	-183 to 0	-
Thiazide	-183 to 0	-
Nitrates	-183 to 0	-
Statins	-183 to 0	-
Fibrates	-183 to 0	-
Diabetes-related		
Insulin	-183 to 0	-
Metformin	-183 to 0	-
Sulfonylureas	-183 to 0	-
Other	-183 to 0	-

### Appendix J. Baseline Covariate Groups Evaluated in this Request

Covariate	<b>Evaluation Window</b>	Care Settings <sup>1</sup>
Metabolic inhibitors		
Amiodarone	-183 to 0	-
Dronedarone	-183 to 0	-
Health care utilization		
Number of inpatient hospital stays	-183 to 0	IP
Number of emergency department visit	-183 to 0	ED
Number of ambulatory visits	-183 to 0	AV
Drug utilization		
Number of unique generics dispensed	-183 to 0	-

#### Highlighted cells mean that they were not included in the Propensity Score Model, but were included in Table 1

<sup>1</sup>Caresetting/Principal Diagnosis

**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

**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.

Principal Diagnosis - 'IPP' = inpatient principal diagnosis, 'IPS' = inpatient secondary diagnosis