

## Disclaimer

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

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

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

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

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#### Overview for Request cder\_mpl2p\_wp028

Request ID: cder\_mpl2p\_wp028\_nsdp\_v01

**<u>Request Description</u>**: In this report we compared risk of stroke, intracranial hemorrhage, and bleeding outcomes associated with use of non-vitamin K oral anticoagulants (NOACs) in those aged 65 years or older in a subset of the Sentinel Distributed Database.

<u>Sentinel Routine Querying Module</u>: Cohort Identification and Descriptive Analysis (CIDA) and Propensity Score Analysis modules, version 10.3.2, with additional programming

**Data Source:** We distributed this request to the Duke Center for Medicare & Medicaid Services, a contributing Sentinel Distributed Database Data Partner, for execution on 100% Medicare fee-for-service data on September 27, 2021. Data from Medicare patients having both fee-for-service medical coverage and Part D drug coverage are included. The study period included data from October 19, 2010 to September 30, 2015. Please see Appendix A for a list of dates of available data for each Data **Study Design:** 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 gastrointestinal bleeding (GIB) outcomes among patients aged 65 years or older. We performed all pairwise comparisons of the three NOACs using inverse probability of treatment weighting to adjust for confounding. This study used a retrospective new-user cohort design. This is a Type 2 analysis using the Propensity Score Analysis (PSA) module in the Query Request Package (QRP) documentation.

**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). We defined new use as no prior use of the standard dose of the exposure or any dose of the comparators or warfarin in the 183 days prior to the first qualifying dispensing (index). Exposures were defined using National Drug Codes (NDCs). Please see Appendix C for a list of generic and brand names used to define the

**<u>Outcomes of Interest:</u>** We defined the following outcomes of interest<sup>1</sup>:

 We defined MEB as one ICD-9-CM (International Classification of Diseases, 9th Revision, Clinical Modification) diagnosis code from "Major Extracranial Bleeding - List 1" as a primary diagnosis from an inpatient encounter AND no code from "Major Extracranial Bleeding - List 3" OR (one ICD-9-CM diagnosis code from "Major Extracranial Bleeding - List 2" as a primary diagnosis from an inpatient encounter AND one ICD-9-CM diagnosis code from "Major Extracranial Bleeding - List 1" as a secondary or unspecified diagnosis from an inpatient encounter on the same day AND no code from "Major Extracranial Bleeding - List 3").

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

We excluded patients from the analysis if they had evidence of the outcome on the day of exposure initiation or in the 183 days preceding exposure initiation. Please see Appendix D for a list of diagnosis codes used to define outcomes in this request.

<u>Cohort Eligibility Criteria:</u> 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 the 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 the 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, warfarin 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. Please see Appendicies D and F for a list of specific codes used to define cohort eligibility in this request.



### Overview for Request cder\_mpl2p\_wp028

**Follow-up Time:** 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 episode. These "as treated" episodes are the time during which we assessed outcomes. 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 E and G for a list of codes used to define censoring criteria in

**Baseline Covariates:** We defined covariates using NDCs, ICD-9-CM diagnosis codes, CPT-4 codes, and Healthcare Common Procedure Coding System (HCPCS) codes. Please refer to Appendices H and I for a list of covariates, codes, and evaluation windows used to define covariates in this request. Please refer to Appendix M for evaluation windows used to defined covariates.

**Propensity Score Estimation:** For each of the three comparisons, we fit a logistic regression model separately for all patients, female patients, and male patients, to estimate the propensity score (PS) based on potential confounders outlined in Appendix K.

Inverse Probability of Treatment Weighting: Patients in non-overlapping regions of the PS distributions were trimmed, or excluded, from the population used for IPTW analysis. Patients were weighted using stabilized average treatment effect weights. Prior to generating effect estimates, we considered three potential thresholds at which to truncate IPT weights: 1) no truncation; 2) truncate weights at the 1st and 99th percentiles; and 3) truncate weights at the 2.5th and 97.5th percentile. Based on the weight distribution after truncating at each potential threshold, we selected "no truncation" and presented those results in this report. Effect estimates were not generated for the other potential truncation thresholds. Please see Appendices B1-B9 for descriptive statistics on the weight distributions for each model.

<u>Analysis:</u> For each comparison, we estimated IPT weighted hazard ratios and corresponding robust 95% confidence intervals.

# Please see Appendix J for the specifications of parameters used in this request and and Appendix K for a study design diagram detailing 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 modules, please refer to the documentation (https://dev.sentinelsystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse).

<sup>1</sup>Cunningham A, Stein CM, Chung CP, Daugherty JR, Smalley WE, Ray WA. An automated database case definition for serious bleeding related to oral anticoagulant use. Pharmacoepidemiol Drug Saf. 2011 Jun;20(6):560-6. doi: 10.1002/pds.2109. Epub 2011 Mar 8. PMID: 21387461; PMCID: PMC3365595.



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

**Amount Supplied** - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing. **Blackout Period** - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

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

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

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

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

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

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

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

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

**Cohort Definition (drug/exposure)** - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period; 04: Cohort includes all valid treatment episodes during the query period; 04: Cohort includes all valid treatment episodes during the query period; 04: Cohort includes all valid treatment episodes during the query period; 05: Cohort includes all valid treatment episodes during the query period; 05: Cohort includes all valid treatment episodes during the query period until an event occurs.

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

**Switch Gap Inclusion Indicator - 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) Module\*

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

**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 patient-level datasets represents one patient in the cohort, each observation in the risk set dataset represents one event. Risk sets are created at the Data Partner site, returned to the SOC, aggregated, and used to calculate effect estimates via case-centered logistic regression.

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

**Zero Cell Correction** - indicator for whether to screen variables with a zero correction added to each cell in the confounder/outcome 2x2 table. Recommended when the number of exposed outcomes is fewer than 150. \*all terms may not be used in this report



	Rivar	roxaban Users	Dab	igatran Users	Covariate Balance	
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	110,113	100.0%	84,473	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
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%	40,696	48.2%	3.463	0.069
75-84	43,527	39.5%	34,507	40.8%	-1.320	-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						
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
Ethnicity						
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%	31,777	37.6%	-37.483	-1.091
2012	13,749	12.5%	23,083	27.3%	-14.840	-0.378
2013	31,382	28.5%	13,926	16.5%	12.014	0.291
2014	38,641	35.1%	9,433	11.2%	23.925	0.592
2015	26,192	23.8%	4,984	5.9%	17.886	0.520



	Rivaroxaban Users		Dab	igatran Users	Covariate Balance	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.8	1.5	3.9	1.5	-0.103	-0.067
	Number	Percent	Number	Percent		
0-1	3,764	3.4%	2,768	3.3%	0.142	0.008
2	18,604	16.9%	12,937	15.3%	1.580	0.043
3	27,747	25.2%	19,780	23.4%	1.783	0.042
4	26,809	24.3%	21,630	25.6%	-1.259	-0.029
5	17,540	15.9%	13,978	16.5%	-0.618	-0.017
>= 6	15,649	14.2%	13,380	15.8%	-1.628	-0.046
	Mean	Standard Deviation	Mean	Standard Deviation		
HAS-BLED	2.5	0.9	2.5	0.9	-0.031	-0.034
	Number	Percent	Number	Percent		
0-1	10,717	9.7%	7,768	9.2%	0.537	0.018
2	50,353	45.7%	37,935	44.9%	0.821	0.016
3	34,587	31.4%	26,869	31.8%	-0.397	-0.009
>= 4	14,456	13.1%	11,901	14.1%	-0.960	-0.028
Baseline Medical Conditions -183 to -1 days:						
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 days)	880	0.8%	692	0.8%	-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%	12,496	14.8%	-0.022	-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)	13,913	12.6%	10,895	12.9%	-0.262	-0.008
Heart failure (outpatient)	24,279	22.0%	20,500	24.3%	-2.219	-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



	Rivaroxaban Users		Dabiga	Dabigatran Users		Covariate Balance	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Kidney failure (chronic)	9,705	8.8%	8,332	9.9%	-1.050	-0.036	
Nicotine dependency	24,121	21.9%	14,997	17.8%	4.152	0.104	
Obesity	18,102	16.4%	11,356	13.4%	2.996	0.084	
Other ischemic heart disease	48,516	44.1%	38,602	45.7%	-1.637	-0.033	
Peptic ulcer disease	411	0.4%	331	0.4%	-0.019	-0.003	
Prior hospitalized bleeding	723	0.7%	576	0.7%	-0.025	-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	
Transient ischemic attack	6,700	6.1%	5,568	6.6%	-0.507	-0.021	
Walker use	-	0.0%	-	0.0%	0.000	-	
Baseline Use (-183 to -1 days)							
ACEI/ARB	65,238	59.2%	50,652	60.0%	-0.716	-0.015	
Amiodarone	11,577	10.5%	9,253	11.0%	-0.440	-0.014	
Anti-coagulant (injectable)	9,899	9.0%	5,989	7.1%	1.900	0.070	
Antiarrhythmics	14,710	13.4%	11,549	13.7%	-0.313	-0.009	
Antiplatelets	16,070	14.6%	13,086	15.5%	-0.897	-0.025	
Beta blockers	78,555	71.3%	59,992	71.0%	0.321	0.007	
Calcium channel blockers	46,860	42.6%	36,268	42.9%	-0.378	-0.008	
Digoxin	11,930	10.8%	12,634	15.0%	-4.122	-0.123	
Diuretics (loop)	25,332	23.0%	21,899	25.9%	-2.919	-0.068	
Diuretics (potassium sparing)	8,666	7.9%	7,309	8.7%	-0.782	-0.028	
Diuretics (thiazide)	31,467	28.6%	24,777	29.3%	-0.754	-0.017	
Dronedarone	4,262	3.9%	4,711	5.6%	-1.706	-0.080	
Estrogen	2,363	2.1%	2,004	2.4%	-0.226	-0.015	
Fibrates	4,732	4.3%	3,991	4.7%	-0.427	-0.021	
H2-antagonist	5,895	5.4%	4,703	5.6%	-0.214	-0.009	
Insulin	6,716	6.1%	5,402	6.4%	-0.296	-0.012	
Metformin	17,112	15.5%	12,859	15.2%	0.318	0.009	



	Rivaroxaban Users		Dabigatran Users		Covariate Balance	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	16,884	15.3%	12,773	15.1%	0.213	0.006
Nitrates	9,970	9.1%	8,488	10.0%	-0.994	-0.034
Other diabetes medications	6,488	5.9%	5,394	6.4%	-0.493	-0.021
Proton pump inhibitors	30,746	27.9%	22,698	26.9%	1.052	0.024
SSRI antidepressants	14,918	13.5%	11,429	13.5%	0.018	0.001
Statins	64,741	58.8%	49,327	58.4%	0.401	0.008
Sulfonyureas	9,228	8.4%	7,961	9.4%	-1.044	-0.037
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean number of ambulatory encounters	12.2	9.1	12.4	9.4	-0.186	-0.020
Mean number of emergency room encounters	0.4	0.8	0.3	0.7	0.043	0.057
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



	Rivar	oxaban Users	Dab	igatran Users	Covariate Balance	
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	110,112	100.0%	84,471	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.5	6.4	76.1	6.6	-0.590	-0.091
Age (Years)	Number	Percent	Number	Percent		
65-74	56,861	51.6%	40,696	48.2%	3.462	0.069
75-84	43,527	39.5%	34,505	40.8%	-1.319	-0.027
85+	9,724	8.8%	9,270	11.0%	-2.143	-0.072
Sex						
Female	51,156	46.5%	40,823	48.3%	-1.870	-0.037
Male	58,956	53.5%	43,648	51.7%	1.870	0.037
Race						
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	101,014	91.7%	77,435	91.7%	0.067	0.002
Ethnicity						
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%	31,775	37.6%	-37.481	-1.091
2012	13,749	12.5%	23,083	27.3%	-14.840	-0.378
2013	31,381	28.5%	13,926	16.5%	12.013	0.291
2014	38,641	35.1%	9,433	11.2%	23.925	0.592
2015	26,192	23.8%	4,984	5.9%	17.886	0.520

	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.8	1.5	3.9	1.5	-0.103	-0.067
	Number	Percent	Number	Percent		
0-1	3,764	3.4%	2,768	3.3%	0.141	0.008
2	18,604	16.9%	12,937	15.3%	1.580	0.043



	Riva	roxaban Users	Dab	igatran Users	Covariate Balance	
3	27,747	25.2%	19,780	23.4%	1.783	0.042
4	26,809	24.3%	21,630	25.6%	-1.259	-0.029
5	17,540	15.9%	13,978	16.5%	-0.618	-0.017
>= 6	15,648	14.2%	13,378	15.8%	-1.626	-0.046
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.5	0.9	-0.030	-0.034
	Number	Percent	Number	Percent		
0-1	10,717	9.7%	7,768	9.2%	0.537	0.018
2	50,353	45.7%	37,935	44.9%	0.820	0.016
3	34,587	31.4%	26,869	31.8%	-0.398	-0.009
>= 4	14,455	13.1%	11,899	14.1%	-0.959	-0.028
Baseline Medical Conditions -183 to -1 days:						
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 days)	880	0.8%	692	0.8%	-0.020	-0.002
Cardioablation	2,335	2.1%	1,905	2.3%	-0.135	-0.009
Cardioversion	10,129	9.2%	8,098	9.6%	-0.388	-0.013
Coronary revascularization	16,264	14.8%	12,496	14.8%	-0.023	-0.001
Diabetes	35,514	32.3%	28,369	33.6%	-1.332	-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)	13,913	12.6%	10,893	12.9%	-0.260	-0.008
Heart failure (outpatient)	24,279	22.0%	20,498	24.3%	-2.217	-0.053
Hypercholesterolemia	41,670	37.8%	33,067	39.1%	-1.303	-0.027
Hypertension	94,767	86.1%	73,077	86.5%	-0.447	-0.013
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (acute)	5,253	4.8%	3,746	4.4%	0.336	0.016
Kidney failure (chronic)	9,705	8.8%	8,330	9.9%	-1.048	-0.036
Nicotine dependency	24,120	21.9%	14,997	17.8%	4.151	0.104
Obesity	18,101	16.4%	11,356	13.4%	2.995	0.084
Other ischemic heart disease	48,515	44.1%	38,600	45.7%	-1.636	-0.033
Peptic ulcer disease	411	0.4%	331	0.4%	-0.019	-0.003



	Rivarox	aban Users	Dabiga	tran Users	Covaria	te Balance
Prior hospitalized bleeding	723	0.7%	576	0.7%	-0.025	-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
Transient ischemic attack	6,699	6.1%	5,568	6.6%	-0.508	-0.021
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	65,237	59.2%	50,651	60.0%	-0.717	-0.015
Amiodarone	11,577	10.5%	9,253	11.0%	-0.440	-0.014
Anti-coagulant (injectable)	9,899	9.0%	5,989	7.1%	1.900	0.070
Antiarrhythmics	14,710	13.4%	11,548	13.7%	-0.312	-0.009
Antiplatelets	16,069	14.6%	13,084	15.5%	-0.896	-0.025
Beta blockers	78,554	71.3%	59,990	71.0%	0.322	0.007
Calcium channel blockers	46,860	42.6%	36,267	42.9%	-0.378	-0.008
Digoxin	11,929	10.8%	12,632	15.0%	-4.121	-0.123
Diuretics (loop)	25,331	23.0%	21,897	25.9%	-2.918	-0.068
Diuretics (potassium sparing)	8,666	7.9%	7,309	8.7%	-0.783	-0.028
Diuretics (thiazide)	31,467	28.6%	24,777	29.3%	-0.755	-0.017
Dronedarone	4,262	3.9%	4,709	5.6%	-1.704	-0.080
Estrogen	2,363	2.1%	2,004	2.4%	-0.226	-0.015
Fibrates	4,732	4.3%	3,990	4.7%	-0.426	-0.021
H2-antagonist	5,895	5.4%	4,703	5.6%	-0.214	-0.009
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	6,715	6.1%	5,401	6.4%	-0.296	-0.012
Metformin	17,112	15.5%	12,859	15.2%	0.318	0.009
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	16,883	15.3%	12,773	15.1%	0.211	0.006
Nitrates	9,969	9.1%	8,487	10.0%	-0.994	-0.034
Other diabetes medications	6,488	5.9%	5,393	6.4%	-0.492	-0.021
Proton pump inhibitors	30,745	27.9%	22,697	26.9%	1.052	0.024
SSRI antidepressants	14,918	13.5%	11,429	13.5%	0.018	0.001
Statins	64,740	58.8%	49,326	58.4%	0.401	0.008
Sulfonyureas	9,228	8.4%	7,959	9.4%	-1.042	-0.037



	Rivaroxaban Users		Dab	oigatran Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.2	9.1	12.4	9.4	-0.186	-0.020
Mean number of emergency room encounters	0.4	0.8	0.3	0.7	0.043	0.056
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 1c. Baseline Characteristics of Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES), in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivar	oxaban Users	Dab	igatran Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	110,111	-	84,481	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.7	6.5	75.7	6.6	0.006	0.001
Age (Years)	Number	Percent	Number	Percent		
65-74	55,081	50.0%	42,557	50.4%	-0.352	-0.007
75-84	44,501	40.4%	33,478	39.6%	0.786	0.016
85+	10,529	9.6%	8,445	10.0%	-0.434	-0.015
Sex						
Female	52,021	47.2%	39,899	47.2%	0.015	0.000
Male	58,090	52.8%	44,581	52.8%	-0.015	-0.000
Race						
American Indian or Alaska Native	305	0.3%	232	0.3%	0.002	0.000
Asian	1,587	1.4%	1,217	1.4%	0.000	0.000
Black or African American	3,936	3.6%	3,023	3.6%	-0.004	-0.000
Unknown	3,312	3.0%	2,540	3.0%	0.001	0.000
White	100,971	91.7%	77,468	91.7%	0.000	0.000
Ethnicity						
Hispanic origin	1,307	1.2%	1,129	1.3%	-0.150	-0.013
Year						
2010	-	0.0%	1,205	1.4%	-1.427	-
2011	156	0.1%	30,938	36.6%	-36.480	-1.068
2012	14,208	12.9%	23,078	27.3%	-14.414	-0.366
2013	31,703	28.8%	14,238	16.9%	11.938	0.287
2014	38,387	34.9%	9,794	11.6%	23.269	0.573
2015	25,657	23.3%	5,226	6.2%	17.114	0.497
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.9	1.5	3.9	1.5	-0.000	-0.000
	Number	Percent	Number	Percent		
0-1	3,697	3.4%	2,836	3.4%	0.000	0.000
2	17,824	16.2%	13,663	16.2%	0.014	0.000
3	26,900	24.4%	20,640	24.4%	-0.002	-0.000



 Table 1c. Baseline Characteristics of Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES), in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivar	oxaban Users	Dab	igatran Users	Covaria	te Balance
4	27,389	24.9%	21,004	24.9%	0.011	0.000
5	17,843	16.2%	13,695	16.2%	-0.006	-0.000
>= 6	16,459	14.9%	12,643	15.0%	-0.018	-0.000
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.5	0.9	0.000	0.000
	Number	Percent	Number	Percent		
0-1	10,446	9.5%	8,005	9.5%	0.011	0.000
2	49,947	45.4%	38,303	45.3%	0.021	0.000
3	34,781	31.6%	26,703	31.6%	-0.021	-0.000
>= 4	14,937	13.6%	11,469	13.6%	-0.010	-0.000
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	1,484	1.3%	1,147	1.4%	-0.010	-0.001
Acute myocardial infarction (Past 31-183 days)	892	0.8%	687	0.8%	-0.003	-0.000
Cardioablation	2,399	2.2%	1,842	2.2%	-0.001	-0.000
Cardioversion	10,326	9.4%	7,930	9.4%	-0.009	-0.000
Coronary revascularization	16,287	14.8%	12,513	14.8%	-0.020	-0.001
Diabetes	36,218	32.9%	27,821	32.9%	-0.040	-0.001
Falls	5,174	4.7%	3,975	4.7%	-0.006	-0.000
Fractures	1,476	1.3%	1,131	1.3%	0.002	0.000
Heart failure (hospitalized)	14,053	12.8%	10,803	12.8%	-0.025	-0.001
Heart failure (outpatient)	25,357	23.0%	19,472	23.0%	-0.020	-0.000
Hypercholesterolemia	42,351	38.5%	32,517	38.5%	-0.028	-0.001
Hypertension	95,006	86.3%	72,905	86.3%	-0.015	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (acute)	5,095	4.6%	3,917	4.6%	-0.010	-0.000
Kidney failure (chronic)	10,212	9.3%	7,842	9.3%	-0.007	-0.000
Nicotine dependency	22,160	20.1%	17,028	20.2%	-0.031	-0.001
Obesity	16,695	15.2%	12,847	15.2%	-0.045	-0.001
Other ischemic heart disease	49,352	44.8%	37,903	44.9%	-0.046	-0.001
Peptic ulcer disease	418	0.4%	320	0.4%	0.001	0.000
Prior hospitalized bleeding	732	0.7%	561	0.7%	0.000	0.000



 Table 1c. Baseline Characteristics of Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES), in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivarox	aban Users	Dabiga	tran Users	Covaria	ate Balance
Stroke (past 0-30 days)	1,852	1.7%	1,423	1.7%	-0.003	-0.000
Stroke (past 31-183 days)	1,437	1.3%	1,105	1.3%	-0.003	-0.000
Syncope	9,731	8.8%	7,464	8.8%	0.003	0.000
Transient ischemic attack	6,945	6.3%	5,331	6.3%	-0.003	-0.000
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	65,575	59.6%	50,322	59.6%	-0.012	-0.000
Amiodarone	11,799	10.7%	9,059	10.7%	-0.008	-0.000
Anti-coagulant (injectable)	8,996	8.2%	6,911	8.2%	-0.010	-0.000
Antiarrhythmics	14,878	13.5%	11,413	13.5%	0.002	0.000
Antiplatelets	16,487	15.0%	12,652	15.0%	-0.003	-0.000
Beta blockers	78,418	71.2%	60,185	71.2%	-0.024	-0.001
Calcium channel blockers	47,068	42.7%	36,121	42.8%	-0.011	-0.000
Digoxin	13,908	12.6%	10,667	12.6%	0.004	0.000
Diuretics (loop)	26,764	24.3%	20,553	24.3%	-0.022	-0.001
Diuretics (potassium sparing)	9,037	8.2%	6,937	8.2%	-0.005	-0.000
Diuretics (thiazide)	31,790	28.9%	24,386	28.9%	0.005	0.000
Dronedarone	5,070	4.6%	3,890	4.6%	0.000	0.000
Estrogen	2,467	2.2%	1,893	2.2%	-0.001	-0.000
Fibrates	4,946	4.5%	3,796	4.5%	-0.002	-0.000
H2-antagonist	6,000	5.4%	4,613	5.5%	-0.011	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	6,866	6.2%	5,277	6.2%	-0.011	-0.000
Metformin	16,992	15.4%	13,054	15.5%	-0.021	-0.001
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	16,790	15.2%	12,895	15.3%	-0.016	-0.000
Nitrates	10,468	9.5%	8,041	9.5%	-0.012	-0.000
Other diabetes medications	6,737	6.1%	5,169	6.1%	0.000	0.000
Proton pump inhibitors	30,246	27.5%	23,216	27.5%	-0.013	-0.000
SSRI antidepressants	14,928	13.6%	11,468	13.6%	-0.017	-0.001
Statins	64,581	58.7%	49,569	58.7%	-0.024	-0.000
Sulfonyureas	9,758	8.9%	7,488	8.9%	-0.002	-0.000



Table 1c. Baseline Characteristics of Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES), in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivaroxaban Users		Dab	oigatran Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.3	9.2	12.3	9.3	-0.002	-0.000
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	-0.001	-0.001
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.001	-0.001
Mean number of generics	9.7	4.8	9.7	4.9	-0.005	-0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Female R	ivaroxaban Users	Female	Dabigatran Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	51,156	100.0%	40,824	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean Age (Years)	76.3	6.6	77.2	6.8	-0.912	-0.135
Age (Years)	Number	Percent	Number	Percent		
65-74	23,750	46.4%	16,694	40.9%	5.534	0.112
75-84	21,506	42.0%	18,113	44.4%	-2.328	-0.047
85+	5,900	11.5%	6,017	14.7%	-3.206	-0.095
Sex						
Female	51,156	100.0%	40,824	100.0%	0.000	-
Race						
American Indian or Alaska Native	170	0.3%	125	0.3%	0.026	0.005
Asian	735	1.4%	701	1.7%	-0.280	-0.023
Black or African American	2,235	4.4%	1,794	4.4%	-0.025	-0.001
Unknown	1,356	2.7%	1,144	2.8%	-0.152	-0.009
White	46,660	91.2%	37,060	90.8%	0.431	0.015
Ethnicity						
Hispanic Origin	691	1.4%	627	1.5%	-0.185	-0.016
Year						
2010	-	0.0%	615	1.5%	-1.506	-
2011	60	0.1%	15,938	39.0%	-38.923	-1.126
2012	6,650	13.0%	11,218	27.5%	-14.479	-0.366
2013	14,873	29.1%	6,573	16.1%	12.973	0.314
2014	17,806	34.8%	4,269	10.5%	24.350	0.608
2015	11,767	23.0%	2,211	5.4%	17.586	0.520
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.4	1.4	4.5	1.4	-0.135	-0.095
	Number	Percent	Number	Percent		
1	-	0.0%	-	0.0%	0.000	-
2	2,827	5.5%	1,730	4.2%	1.289	0.060
3	12,035	23.50%	8,212	20.1%	3.410	0.083
4	15,246	29.8%	12,766	31.3%	-1.468	-0.032



	Female R	Rivaroxaban Users	Female	Dabigatran Users	Covaria	ite Balance
5	9,928	19.4%	8,200	20.1%	-0.679	-0.017
>= 6	11,120	21.7%	9,916	24.3%	-2.552	-0.061
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.050	-0.056
	Number	Percent	Number	Percent		
1	4,617	9.0%	3,243	7.9%	1.081	0.039
2	23,557	46.0%	18,356	45.0%	1.086	0.022
3	16,265	31.8%	13,277	32.5%	-0.728	-0.016
>= 4	6,717	13.1%	5,948	14.6%	-1.439	-0.042
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	699	1.4%	440	1.1%	0.289	0.026
Acute myocardial infarction (Past 31-183 days)	400	0.8%	311	0.8%	0.020	0.002
Cardioablation	812	1.6%	692	1.7%	-0.108	-0.008
Cardioversion	4,097	8.0%	3,405	8.3%	-0.332	-0.012
Coronary revascularization	4,603	9.0%	3,928	9.6%	-0.624	-0.021
Diabetes	15,507	30.3%	13,069	32.0%	-1.700	-0.037
Falls	3,080	6.0%	2,336	5.7%	0.299	0.013
Fractures	881	1.7%	734	1.8%	-0.076	-0.006
Heart failure (hospitalized)	6,853	13.4%	5,780	14.2%	-0.762	-0.022
Heart failure (outpatient)	11,327	22.1%	10,219	25.0%	-2.890	-0.068
Hypercholesterolemia	18,600	36.4%	15,347	37.6%	-1.234	-0.026
Hypertension	44,591	87.2%	36,061	88.3%	-1.166	-0.036
Kidney failure (acute)	2,182	4.3%	1,630	4.0%	0.273	0.014
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	4,066	7.9%	3,708	9.1%	-1.135	-0.041
Nicotine dependency	9,144	17.9%	5,925	14.5%	3.361	0.091
Obesity	8,875	17.3%	5,684	13.9%	3.426	0.094
Other ischemic heart disease	18,443	36.1%	15,654	38.3%	-2.293	-0.047
Peptic ulcer disease	198	0.4%	176	0.4%	-0.044	-0.007
Prior hospitalized bleeding	368	0.7%	310	0.8%	-0.040	-0.005
Stroke (past 0-30 days)	927	1.8%	817	2.0%	-0.189	-0.014
Stroke (past 31-183 days)	746	1.5%	676	1.7%	-0.198	-0.016



Female Rivaroxaban Users		Female Dabigatran Users		Covariate Balance	
4,857	9.5%	3,948	9.7%	-0.176	-0.006
3,477	6.8%	3,046	7.5%	-0.664	-0.026
-	0.0%	-	0.0%	0.000	-
29,362	57.4%	24,137	59.1%	-1.728	-0.035
5,134	10.0%	4,246	10.4%	-0.365	-0.012
4,569	8.9%	2,829	6.9%	2.002	0.074
7,623	14.9%	6,015	14.7%	0.167	0.005
6,280	12.3%	5,807	14.2%	-1.948	-0.057
37,459	73.2%	29,847	73.1%	0.114	0.003
23,799	46.5%	19,428	47.6%	-1.067	-0.021
6,148	12.0%	6,726	16.5%	-4.457	-0.128
12,605	24.6%	11,558	28.3%	-3.671	-0.083
4,520	8.8%	3,964	9.7%	-0.874	-0.030
16,465	32.2%	13,473	33.0%	-0.817	-0.017
2,083	4.1%	2,383	5.8%	-1.765	-0.081
2,358	4.6%	2,001	4.9%	-0.292	-0.014
1,828	3.6%	1,591	3.9%	-0.324	-0.017
3,266	6.4%	2,640	6.5%	-0.082	-0.003
2,985	5.8%	2,558	6.3%	-0.431	-0.018
Number	Percent	Number	Percent	Absolute Difference	Standardized Differenc
6,971	13.6%	5,612	13.7%	-0.120	-0.003
8,705	17.0%	6,625	16.2%	0.788	0.021
4,237	8.3%	3,858	9.5%	-1.168	-0.041
2,646	5.2%	2,274	5.6%	-0.398	-0.018
15,805	30.9%	12,250	30.0%	0.889	0.019
9,421	18.4%	7,296	17.9%	0.544	0.014
27,635	54.0%	22,315	54.7%	-0.640	-0.013
3,652	7.1%	3,417	8.4%	-1.231	-0.046
	3,477 29,362 5,134 4,569 7,623 6,280 37,459 23,799 6,148 12,605 4,520 16,465 2,083 2,358 1,828 3,266 2,985 Number 6,971 8,705 4,237 2,646 15,805 9,421 27,635	3,477       6.8%         -       0.0%         29,362       57.4%         5,134       10.0%         4,569       8.9%         7,623       14.9%         6,280       12.3%         37,459       73.2%         23,799       46.5%         6,148       12.0%         12,605       24.6%         4,520       8.8%         16,465       32.2%         2,083       4.1%         2,358       4.6%         1,828       3.6%         3,266       6.4%         2,985       5.8%         Vumber       Percent         6,971       13.6%         8,705       17.0%         4,237       8.3%         2,646       5.2%         15,805       30.9%         9,421       18.4%         27,635       54.0%	3,477         6.8%         3,046           0.0%         -           29,362         57.4%         24,137           5,134         10.0%         4,246           4,569         8.9%         2,829           7,623         14.9%         6,015           6,280         12.3%         5,807           37,459         73.2%         29,847           23,799         46.5%         19,428           6,148         12.0%         6,726           12,605         24.6%         11,558           4,520         8.8%         3,964           16,465         32.2%         13,473           2,083         4.1%         2,383           2,358         4.6%         2,001           1,828         3.6%         1,591           3,266         6.4%         2,640           2,985         5.8%         2,558           w         13.6%         5,612           8,705         17.0%         6,625           4,237         8.3%         3,858           2,646         5.2%         2,274           15,805         30.9%         12,250           9,421         18.4%<	3,477         6.8%         3,046         7.5%           -         0.0%         -         0.0%           29,362         57.4%         24,137         59.1%           5,134         10.0%         4,246         10.4%           4,569         8.9%         2,829         6.9%           7,623         14.9%         6,015         14.7%           6,280         12.3%         5,807         14.2%           37,459         73.2%         29,847         73.1%           23,799         46.5%         19,428         47.6%           6,148         12.0%         6,726         16.5%           12,605         24.6%         11,558         28.3%           4,520         8.8%         3,964         9.7%           16,465         32.2%         13,473         33.0%           2,083         4.1%         2,383         5.8%           2,358         4.6%         2,001         4.9%           1,828         3.6%         1,591         3.9%           3,266         6.4%         2,640         6.5%           2,985         17.0%         6,625         16.2%           4,237         8.3%	3,477         6.8%         3,046         7.5%         -0.664           -         0.0%         -         0.0%         0.000           29,362         57.4%         24,137         59.1%         -1.728           5,134         10.0%         4,246         10.4%         -0.365           4,569         8.9%         2,829         6.9%         2.002           7,623         14.9%         6,015         14.7%         0.167           6,280         12.3%         5,807         14.2%         -1.948           37,459         73.2%         29,847         73.1%         0.114           23,799         46.5%         19,428         47.6%         -1.067           6,148         12.0%         6,726         16.5%         -4.457           12,605         24.6%         11,558         28.3%         -3.671           4,520         8.8%         3,964         9.7%         -0.874           16,465         32.2%         13,473         33.0%         -0.817           2,083         4.1%         2,383         5.8%         -1.765           2,358         4.6%         2,001         4.9%         -0.292           1,828



	Female I	Female Rivaroxaban Users		Dabigatran Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.5	9.0	12.7	9.4	-0.158	-0.017
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	0.048	0.061
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.8	-0.021	-0.028
Mean number of generics	10.1	5.0	10.2	5.0	-0.113	-0.022

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



	Female R	ivaroxaban Users	Female	Dabigatran Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	51,155	100.0%	40,822	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	76.3	6.6	77.2	6.8	-0.911	-0.135
Age (Years)	Number	Percent	Number	Percent		
65-74	23,749	46.4%	16,694	40.9%	5.531	0.112
75-84	21,506	42.0%	18,111	44.4%	-2.325	-0.047
85+	5,900	11.5%	6,017	14.7%	-3.206	-0.095
Sex						
Female	51,155	100.0%	40,822	100.0%	0.000	-
Race						
American Indian or Alaska Native	170	0.3%	125	0.3%	0.026	0.005
Asian	735	1.4%	701	1.7%	-0.280	-0.023
Black or African American	2,235	4.4%	1,794	4.4%	-0.026	-0.001
Unknown	1,356	2.7%	1,143	2.8%	-0.149	-0.009
White	46,659	91.2%	37,059	90.8%	0.429	0.015
Ethnicity						
Hispanic Origin	691	1.4%	626	1.5%	-0.183	-0.015
Year						
2010	-	0.0%	615	1.5%	-1.507	-
2011	60	0.1%	15,936	39.0%	-38.920	-1.126
2012	6,650	13.0%	11,218	27.5%	-14.481	-0.366
2013	14,873	29.1%	6,573	16.1%	12.973	0.314
2014	17,805	34.8%	4,269	10.5%	24.348	0.608
2015	11,767	23.0%	2,211	5.4%	17.586	0.520
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.4	1.4	4.5	1.4	-0.135	-0.095
	Number	Percent	Number	Percent		
1	-	0.0%	-	0.0%	0.000	-
2	2,827	5.5%	1,730	4.2%	1.288	0.060
3	12,034	23.5%	8,212	20.1%	3.408	0.083
4	15,246	29.8%	12,766	31.3%	-1.469	-0.032



	Female F	Rivaroxaban Users	Female	Dabigatran Users	Covaria	ite Balance
5	9,928	19.4%	8,200	20.1%	-0.680	-0.017
>= 6	11,120	21.7%	9,914	24.3%	-2.548	-0.061
	Mean	Standard Deviation	Mean	Standard Deviation		
HAS-BLED	2.5	0.9	2.6	0.9	-0.050	-0.056
	Number	Percent	Number	Percent		
1	4,617	9.0%	3,243	7.9%	1.081	0.039
2	23,556	46.0%	18,356	45.0%	1.082	0.022
3	16,265	31.8%	13,277	32.5%	-0.729	-0.016
>= 4	6,717	13.1%	5,946	14.6%	-1.435	-0.042
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction - Past 0-30 days	699	1.4%	440	1.1%	0.289	0.026
Acute myocardial infarction (Past 31-183 days)	400	0.8%	311	0.8%	0.020	0.002
Cardioablation	812	1.6%	692	1.7%	-0.108	-0.008
Cardioversion	4,097	8.0%	3,404	8.3%	-0.330	-0.012
Coronary revascularization	4,603	9.0%	3,928	9.6%	-0.624	-0.021
Diabetes	15,507	30.3%	13,067	32.0%	-1.696	-0.037
Falls	3,079	6.0%	2,336	5.7%	0.297	0.013
Fractures	881	1.7%	734	1.8%	-0.076	-0.006
Heart failure - hospitalized	6,853	13.4%	5,778	14.2%	-0.758	-0.022
Heart failure - outpatient	11,327	22.1%	10,217	25.0%	-2.886	-0.068
Hypercholesterolemia	18,599	36.4%	15,345	37.6%	-1.232	-0.026
Hypertension	44,590	87.2%	36,059	88.3%	-1.166	-0.036
Kidney failure - acute	2,182	4.3%	1,629	4.0%	0.275	0.014
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure - chronic	4,066	7.9%	3,706	9.1%	-1.130	-0.040
Nicotine dependency	9,144	17.9%	5,925	14.5%	3.361	0.091
Obesity	8,874	17.3%	5,684	13.9%	3.423	0.094
Other ischemic heart disease	18,442	36.1%	15,652	38.3%	-2.291	-0.047
Peptic ulcer disease	198	0.4%	175	0.4%	-0.042	-0.007
Prior hospitalized bleeding	368	0.7%	309	0.8%	-0.038	-0.004
Stroke - past 0-30 days	927	1.8%	817	2.0%	-0.189	-0.014
Stroke - past 31-183 days	746	1.5%	676	1.7%	-0.198	-0.016



	Female Riva	roxaban Users	Female Da	bigatran Users	Covaria	ate Balance
Syncope	4,857	9.5%	3,948	9.7%	-0.177	-0.006
Transient ischemic attack	3,477	6.8%	3,046	7.5%	-0.665	-0.026
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	29,361	57.4%	24,136	59.1%	-1.729	-0.035
Amiodarone	5,134	10.0%	4,246	10.4%	-0.365	-0.012
Anti-coagulant (injectable)	4,569	8.9%	2,829	6.9%	2.002	0.074
Antiarrhythmics	7,623	14.9%	6,014	14.7%	0.170	0.005
Antiplatelets	6,280	12.3%	5,805	14.2%	-1.944	-0.057
Beta blockers	37,458	73.2%	29,845	73.1%	0.114	0.003
Calcium channel blockers	23,798	46.5%	19,427	47.6%	-1.068	-0.021
Digoxin	6,148	12.0%	6,724	16.5%	-4.453	-0.128
Diuretics (loop)	12,605	24.6%	11,556	28.3%	-3.667	-0.083
Diuretics (potassium sparing)	4,520	8.8%	3,963	9.7%	-0.872	-0.030
Diuretics (thiazide)	16,464	32.2%	13,472	33.0%	-0.817	-0.017
Dronedarone	2,083	4.1%	2,381	5.8%	-1.761	-0.081
Estrogen	2,358	4.6%	2,001	4.9%	-0.292	-0.014
Fibrates	1,828	3.6%	1,591	3.9%	-0.324	-0.017
H2-antagonist	3,265	6.4%	2,640	6.5%	-0.085	-0.003
Insulin	2,985	5.8%	2,558	6.3%	-0.431	-0.018
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	6,971	13.6%	5,612	13.7%	-0.120	-0.003
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,705	17.0%	6,625	16.2%	0.788	0.021
Nitrates	4,237	8.3%	3,857	9.4%	-1.166	-0.041
Other diabetes medications	2,646	5.2%	2,273	5.6%	-0.396	-0.018
Proton pump inhibitors	15,804	30.9%	12,248	30.0%	0.891	0.019
SSRI antidepressants	9,420	18.4%	7,295	17.9%	0.544	0.014
Statins	27,634	54.0%	22,313	54.7%	-0.639	-0.013

3,415

8.4%

-1.227

3,652

7.1%

Sulfonyureas

-0.046



	Female Rivaroxaban Users		Female Dal	bigatran Users	Covariate Balance	
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.5	9.0	12.7	9.4	-0.157	-0.017
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	0.048	0.061
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.8	-0.021	-0.028
Mean number of generics	10.1	5.0	10.2	5.0	-0.112	-0.022

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



 Table 1f. Baseline Characteristics of Female Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female R	ivaroxaban Users	Female	Dabigatran Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	51,156	-	40,827	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	76.7	6.7	76.7	6.8	0.008	0.001
Age (Years)	Number	Percent	Number	Percent		
65-74	22,410	43.8%	18,070	44.3%	-0.452	-0.009
75-84	22,210	43.4%	17,375	42.6%	0.858	0.017
85+	6,536	12.8%	5,382	13.2%	-0.406	-0.012
Sex						
Female	51,156	100.0%	40,827	100.0%	0.000	-
Race						
American Indian or Alaska Native	165	0.3%	132	0.3%	0.000	0.000
Asian	799	1.6%	637	1.6%	0.002	0.000
Black or African American	2,249	4.4%	1,795	4.4%	-0.001	-0.000
Unknown	1,391	2.7%	1,107	2.7%	0.008	0.001
White	46,552	91.0%	37,156	91.0%	-0.010	-0.000
Ethnicity						
Hispanic Origin	723	1.4%	601	1.5%	-0.059	-0.005
Year						
2010	-	0.0%	576	1.4%	-1.411	-
2011	64	0.1%	15,469	37.9%	-37.762	-1.098
2012	6,903	13.5%	11,222	27.5%	-13.993	-0.352
2013	15,049	29.4%	6,751	16.5%	12.881	0.310
2014	17,664	34.5%	4,471	11.0%	23.580	0.586
2015	11,476	22.4%	2,339	5.7%	16.706	0.495
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.5	1.4	4.5	1.4	0.000	0.000
	Number	Percent	Number	Percent		
1	-	0.0%	-	1.5	0.000	-
2	2,527	4.9%	2,010	4.9%	0.017	0.001
3	11,257	22.0%	8,986	22.0%	-0.006	-0.000
4	15,561	30.4%	12,413	30.4%	0.016	0.000



 Table 1f. Baseline Characteristics of Female Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female R	Rivaroxaban Users	Female	Dabigatran Users	Covaria	Covariate Balance	
5	10,085	19.7%	8,053	19.7%	-0.010	-0.000	
>= 6	11,726	22.9%	9,365	22.9%	-0.016	-0.000	
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>			
HAS-BLED	2.5	0.9	2.5	0.9	0.000	0.000	
	Number	Percent	Number	Percent			
1	4,366	8.5%	3,479	8.5%	0.011	0.000	
2	23,296	45.5%	18,584	45.5%	0.021	0.000	
3	16,444	32.1%	13,140	32.2%	-0.038	-0.001	
>= 4	7,051	13.8%	5,624	13.8%	0.007	0.000	
Baseline Medical Conditions -183 to -1 days:							
Acute myocardial infarction (Past 0-30 days)	634	1.2%	508	1.2%	-0.005	-0.000	
Acute myocardial infarction (Past 31-183 days)	396	0.8%	315	0.8%	0.003	0.000	
Cardioablation	833	1.6%	664	1.6%	0.002	0.000	
Cardioversion	4,174	8.2%	3,335	8.2%	-0.010	-0.000	
Diabetes	4,756	9.3%	3,802	9.3%	-0.016	-0.001	
Falls	15,933	31.1%	12,728	31.2%	-0.029	-0.001	
Fractures	3,010	5.9%	2,407	5.9%	-0.012	-0.001	
Heart failure (hospitalized)	899	1.8%	716	1.8%	0.004	0.000	
Heart failure (outpatient)	7,025	13.7%	5,617	13.8%	-0.024	-0.001	
Hypercholesterolemia	11,977	23.4%	9,565	23.4%	-0.015	-0.000	
Hypertension	18,911	37.0%	15,106	37.0%	-0.033	-0.001	
Kidney failure (acute)	44,874	87.7%	35,820	87.7%	-0.017	-0.001	
	2,119	4.1%	1,691	4.1%	0.001	0.000	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Kidney failure (chronic)	4,323	8.4%	3,450	8.4%	0.000	0.000	
Nicotine dependency	8,394	16.4%	6,716	16.5%	-0.041	-0.001	
Obesity	8,106	15.8%	6,489	15.9%	-0.049	-0.001	
Other ischemic heart disease	18,997	37.1%	15,183	37.2%	-0.054	-0.001	
Peptic ulcer disease	206	0.4%	164	0.4%	0.001	0.000	
Prior hospitalized bleeding	374	0.7%	297	0.7%	0.003	0.000	
Stroke (past 0-30 days)	975	1.9%	779	1.9%	-0.002	-0.000	
Stroke (past 31-183 days)	792	1.5%	633	1.6%	-0.004	-0.000	



 Table 1f. Baseline Characteristics of Female Rivaroxaban and Dabigatran Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female Riva	roxaban Users	Female Dat	oigatran Users	Covaria	ate Balance
Syncope	4,894	9.6%	3,908	9.6%	-0.005	-0.000
Transient ischemic attack	3,635	7.1%	2,907	7.1%	-0.015	-0.001
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	29,756	58.2%	23,757	58.2%	-0.021	-0.000
Amiodarone	5,221	10.2%	4,174	10.2%	-0.017	-0.001
Anti-coagulant (injectable)	4,116	8.0%	3,290	8.1%	-0.012	-0.000
Antiarrhythmics	7,595	14.8%	6,061	14.8%	0.000	0.000
Antiplatelets	6,727	13.1%	5,371	13.2%	-0.006	-0.000
Beta blockers	37,440	73.2%	29,891	73.2%	-0.027	-0.001
Calcium channel blockers	24,067	47.0%	19,213	47.1%	-0.014	-0.000
Digoxin	7,168	14.0%	5,718	14.0%	0.005	0.000
Diuretics (loop)	13,461	26.3%	10,752	26.3%	-0.024	-0.001
Diuretics (potassium sparing)	4,712	9.2%	3,761	9.2%	-0.001	-0.000
Diuretics (thiazide)	16,628	32.5%	13,263	32.5%	0.019	0.000
Dronedarone	2,484	4.9%	1,982	4.9%	0.002	0.000
Estrogen	2,420	4.7%	1,932	4.7%	-0.003	-0.000
Fibrates	1,910	3.7%	1,526	3.7%	-0.004	-0.000
H2-antagonist	3,284	6.4%	2,626	6.4%	-0.013	-0.001
Insulin	3,089	6.0%	2,468	6.0%	-0.006	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	7,020	13.7%	5,608	13.7%	-0.014	-0.000
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,530	16.7%	6,819	16.7%	-0.027	-0.001
Nitrates	4,507	8.8%	3,600	8.8%	-0.007	-0.000
Other diabetes medications	2,745	5.4%	2,191	5.4%	-0.002	-0.000
Proton pump inhibitors	15,606	30.5%	12,464	30.5%	-0.022	-0.000

7,436

22,197

3,152

18.2%

54.4%

7.7%

-0.031

-0.013

0.005

9,301

27,806

3,952

18.2%

54.4%

7.7%

SSRI antidepressants

Statins

Sulfonyureas

-0.001

-0.000

0.000


	Female Rivaroxaban Users		Female	Dabigatran Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.6	9.0	12.6	9.3	-0.001	-0.000
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	-0.002	-0.002
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.001	-0.001
Mean number of generics	10.2	5.0	10.2	5.1	-0.006	-0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Male Riv	varoxaban Users	Male D	abigatran Users	Covaria	Covariate Balance	
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Patients	58,957	100.0%	43,649	100.0%	-	-	
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>			
Mean Age (Years)	74.7	6.1	75.0	6.2	-0.232	-0.038	
Age (Years)	Number	Percent	Number	Percent			
65-74	33,112	56.2%	24,002	55.0%	1.174	0.024	
75-84	22,021	37.4%	16,394	37.6%	-0.208	-0.004	
85+	3,824	6.5%	3,253	7.5%	-0.967	-0.038	
Sex							
Male	58,957	100.0%	43,649	100.0%	0.000	-	
Race							
American Indian or Alaska Native	145	0.2%	99	0.2%	0.019	0.004	
Asian	705	1.2%	660	1.5%	-0.316	-0.027	
Black or African American	1,714	2.9%	1,198	2.7%	0.163	0.010	
Unknown	2,038	3.5%	1,315	3.0%	0.444	0.025	
White	54,355	92.2%	40,377	92.5%	-0.310	-0.012	
Ethnicity							
Hispanic Origin	614	1.0%	489	1.1%	-0.079	-0.008	
Year							
2010	-	0.0%	655	1.5%	-1.501	-	
2011	89	0.2%	15,839	36.3%	-36.136	-1.059	
2012	7,099	12.0%	11,865	27.2%	-15.142	-0.388	
2013	16,509	28.0%	7,353	16.8%	11.156	0.270	
2014	20,835	35.3%	5,164	11.8%	23.509	0.576	
2015	14,425	24.5%	2,773	6.4%	18.114	0.518	
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference	
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.3	1.4	3.4	1.4	-0.033	-0.023	
	Number	Percent	Number	Percent			
1	3,764	6.4%	2,768	6.3%	0.043	0.002	
2	15,777	26.8%	11,207	25.7%	1.085	0.025	
3	15,712	26.6%	11,568	26.5%	0.148	0.003	
4	11,563	19.6%	8,864	20.3%	-0.695	-0.017	



	Male Ri	varoxaban Users	Male D	abigatran Users	Covaria	ite Balance
5	7,612	12.9%	5,778	13.2%	-0.326	-0.010
>= 6	4,529	7.7%	3,464	7.9%	-0.254	-0.009
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.5	0.9	-0.012	-0.013
	Number	Percent	Number	Percent		
1	6,100	10.3%	4,525	10.4%	-0.020	-0.001
2	26,796	45.5%	19,579	44.9%	0.595	0.012
3	18,322	31.1%	13,592	31.1%	-0.062	-0.001
>= 4	7,739	13.1%	5,953	13.6%	-0.512	-0.015
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	914	1.6%	563	1.3%	0.260	0.022
Acute myocardial infarction (Past 31-183 days)	480	0.8%	381	0.9%	-0.059	-0.006
Cardioablation	1,523	2.6%	1,214	2.8%	-0.198	-0.012
Cardioversion	6,032	10.2%	4,694	10.8%	-0.523	-0.017
Coronary revascularization	11,662	19.8%	8,568	19.6%	0.151	0.004
Diabetes	20,008	33.9%	15,302	35.1%	-1.120	-0.024
Falls	2,180	3.7%	1,544	3.5%	0.160	0.009
Fractures	597	1.0%	398	0.9%	0.101	0.010
Heart failure (hospitalized)	7,060	12.0%	5,115	11.7%	0.256	0.008
Heart failure (outpatient)	12,952	22.0%	10,281	23.6%	-1.585	-0.038
Hypercholesterolemia	23,071	39.1%	17,721	40.6%	-1.467	-0.030
Hypertension	50,177	85.1%	37,018	84.8%	0.299	0.008
Kidney failure (acute)	3,071	5.2%	2,116	4.8%	0.361	0.017
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	5,639	9.6%	4,624	10.6%	-1.029	-0.034
Nicotine dependency	14,977	25.4%	9,072	20.8%	4.619	0.110
Obesity	9,227	15.7%	5,672	13.0%	2.656	0.076
Other ischemic heart disease	30,073	51.0%	22,948	52.6%	-1.566	-0.031
Peptic ulcer disease	213	0.4%	155	0.4%	0.006	0.001
Prior hospitalized bleeding	355	0.6%	266	0.6%	-0.007	-0.001
Stroke (past 0-30 days)	895	1.5%	623	1.4%	0.091	0.008
Stroke (past 31-183 days)	597	1.0%	514	1.2%	-0.165	-0.016



	Male Rivar	oxaban Users	Male Dabi	gatran Users	Covaria	ite Balance
Syncope	4,929	8.4%	3,484	8.0%	0.378	0.014
Transient ischemic attack	3,223	5.5%	2,522	5.8%	-0.311	-0.014
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	35,876	60.9%	26,515	60.7%	0.105	0.002
Amiodarone	6,443	10.9%	5,007	11.5%	-0.543	-0.017
Anti-coagulant (injectable)	5,330	9.0%	3,160	7.2%	1.801	0.066
Antiarrhythmics	7,087	12.0%	5,534	12.7%	-0.658	-0.020
Antiplatelets	9,790	16.6%	7,279	16.7%	-0.071	-0.002
Beta blockers	41,096	69.7%	30,145	69.1%	0.643	0.014
Calcium channel blockers	23,061	39.1%	16,840	38.6%	0.534	0.011
Digoxin	5,782	9.8%	5,908	13.5%	-3.728	-0.116
Diuretics (loop)	12,727	21.6%	10,341	23.7%	-2.104	-0.050
Diuretics (potassium sparing)	4,146	7.0%	3,345	7.7%	-0.631	-0.024
Diuretics (thiazide)	15,002	25.4%	11,304	25.9%	-0.452	-0.010
Dronedarone	2,179	3.7%	2,328	5.3%	-1.638	-0.079
Estrogen	****	0.0%	****	0.0%	0.002	0.002
Fibrates	2,904	4.9%	2,400	5.5%	-0.573	-0.026
H2-antagonist	2,629	4.5%	2,063	4.7%	-0.267	-0.013
Insulin	3,731	6.3%	2,844	6.5%	-0.187	-0.008
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	10,141	17.2%	7,247	16.6%	0.598	0.016
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,179	13.9%	6,148	14.1%	-0.212	-0.006
Nitrates	5,733	9.7%	4,630	10.6%	-0.883	-0.029

Nitrates	5,733	9.7%	4,630	10.6%	-0.883	-0.029
Other diabetes medications	3,842	6.5%	3,120	7.1%	-0.631	-0.025
Proton pump inhibitors	14,941	25.3%	10,448	23.9%	1.406	0.033
SSRI antidepressants	5,497	9.3%	4,133	9.5%	-0.145	-0.005
Statins	37,106	62.9%	27,012	61.9%	1.053	0.022
Sulfonyureas	5,576	9.5%	4,544	10.4%	-0.953	-0.032



	Male Rivaroxaban Users		Male D	Dabigatran Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.0	9.2	12.2	9.5	-0.192	-0.021
Mean number of emergency room encounters	0.3	0.8	0.3	0.7	0.042	0.057
Mean number of inpatient hospital encounters	0.4	0.7	0.4	0.7	0.003	0.005
Mean number of generics	9.2	4.6	9.2	4.6	-0.001	-0.000

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

\*\*\*\*\*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.



	Male Riv	varoxaban Users	Male D	abigatran Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	58,956	100.0%	43,648	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean Age (Years)	74.7	6.1	75.0	6.2	-0.232	-0.038
Age (Years)	Number	Percent	Number	Percent		
65-74	33,111	56.2%	24,001	55.0%	1.175	0.024
75-84	22,021	37.4%	16,394	37.6%	-0.208	-0.004
85+	3,824	6.5%	3,253	7.5%	-0.967	-0.038
Sex						
Male	58,956	100.0%	43,648	100.0%	0.000	-
Race						
American Indian or Alaska Native	145	0.2%	99	0.2%	0.019	0.004
Asian	705	1.2%	660	1.5%	-0.316	-0.027
Black or African American	1,714	2.9%	1,198	2.7%	0.163	0.010
Unknown	2,038	3.5%	1,315	3.0%	0.444	0.025
White	54,354	92.2%	40,376	92.5%	-0.309	-0.012
Ethnicity						
Hispanic Origin	614	1.0%	489	1.1%	-0.079	-0.008
Year						
2010	-	0.0%	655	1.5%	-1.501	-
2011	89	0.2%	15,839	36.3%	-36.137	-1.059
2012	7,099	12.0%	11,864	27.2%	-15.140	-0.388
2013	16,508	28.0%	7,353	16.8%	11.154	0.270
2014	20,835	35.3%	5,164	11.8%	23.509	0.576
2015	14,425	24.5%	2,773	6.4%	18.114	0.518
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.3	1.4	3.4	1.4	-0.033	-0.023
	Number	Percent	Number	Percent		
1	3,764	6.4%	2,768	6.3%	0.043	0.002
2	15,777	26.8%	11,207	25.7%	1.085	0.025
3	15,712	26.70%	11,568	26.5%	0.147	0.003
4	11,563	19.6%	8,864	20.3%	-0.695	-0.017



	Male Ri	varoxaban Users	Male D	abigatran Users	Covaria	ite Balance
5	7,612	12.9%	5,777	13.2%	-0.324	-0.010
>= 6	4,528	7.7%	3,464	7.9%	-0.256	-0.010
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.5	0.9	-0.012	-0.013
	Number	Percent	Number	Percent		
1	6,100	10.3%	4,525	10.4%	-0.020	-0.001
2	26,796	45.5%	19,579	44.9%	0.594	0.012
3	18,322	31.1%	13,592	31.1%	-0.063	-0.001
>= 4	7,738	13.1%	5,952	13.6%	-0.511	-0.015
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	914	1.6%	563	1.3%	0.260	0.022
Acute myocardial infarction (Past 31-183 days)	480	0.8%	381	0.9%	-0.059	-0.006
Cardioablation	1,523	2.6%	1,214	2.8%	-0.198	-0.012
Cardioversion	6,032	10.2%	4,693	10.8%	-0.521	-0.017
Coronary revascularization	11,661	19.8%	8,568	19.6%	0.149	0.004
Diabetes	20,007	33.9%	15,301	35.1%	-1.120	-0.024
Falls	2,180	3.7%	1,544	3.5%	0.160	0.009
Fractures	597	1.0%	398	0.9%	0.101	0.010
Heart failure (hospitalized)	7,060	12.0%	5,114	11.7%	0.259	0.008
Heart failure (outpatient)	12,952	22.0%	10,280	23.6%	-1.583	-0.038
Hypercholesterolemia	23,070	39.1%	17,721	40.6%	-1.469	-0.030
Hypertension	50,176	85.1%	37,017	84.8%	0.300	0.008
Kidney failure (acute)	3,071	5.2%	2,116	4.8%	0.361	0.017
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	5,639	9.6%	4,623	10.6%	-1.027	-0.034
Nicotine dependency	14,976	25.4%	9,072	20.8%	4.618	0.110
Obesity	9,226	15.6%	5,672	13.0%	2.654	0.076
Other ischemic heart disease	30,072	51.0%	22,947	52.6%	-1.565	-0.031
Peptic ulcer disease	213	0.4%	155	0.4%	0.006	0.001
Prior hospitalized bleeding	355	0.6%	266	0.6%	-0.007	-0.001
Stroke (past 0-30 days)	895	1.5%	623	1.4%	0.091	0.008
Stroke (past 31-183 days)	597	1.0%	514	1.2%	-0.165	-0.016



	Male Rivar	roxaban Users	Male Dab	igatran Users	Covaria	ite Balance
Syncope	4,929	8.4%	3,484	8.0%	0.378	0.014
Transient ischemic attack	3,222	5.5%	2,522	5.8%	-0.313	-0.014
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	35,875	60.9%	26,515	60.7%	0.103	0.002
Amiodarone	6,443	10.9%	5,006	11.5%	-0.541	-0.017
Anti-coagulant (injectable)	5,330	9.0%	3,160	7.2%	1.801	0.066
Antiarrhythmics	7,087	12.0%	5,534	12.7%	-0.658	-0.020
Antiplatelets	9,789	16.6%	7,278	16.7%	-0.070	-0.002
Beta blockers	41,095	69.7%	30,145	69.1%	0.641	0.014
Calcium channel blockers	23,061	39.1%	16,839	38.6%	0.537	0.011
Digoxin	5,781	9.8%	5,907	13.5%	-3.728	-0.116
Diuretics (loop)	12,726	21.6%	10,340	23.7%	-2.104	-0.050
Diuretics (potassium sparing)	4,146	7.0%	3,345	7.7%	-0.631	-0.024
Diuretics (thiazide)	15,002	25.4%	11,304	25.9%	-0.452	-0.010
Dronedarone	2,179	3.7%	2,327	5.3%	-1.635	-0.079
Estrogen	****	0.0%	****	0.0%	0.002	0.002
Fibrates	2,904	4.9%	2,399	5.5%	-0.571	-0.026
H2-antagonist	2,629	4.5%	2,062	4.7%	-0.265	-0.013
Insulin	3,730	6.3%	2,843	6.5%	-0.187	-0.008
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	10,141	17.2%	7,247	16.6%	0.598	0.016
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,178	13.9%	6,148	14.1%	-0.214	-0.006
Nitrates	5,732	9.7%	4,630	10.6%	-0.885	-0.029
Other diabetes medications	3,842	6.5%	3,119	7.1%	-0.629	-0.025
Proton pump inhibitors	14,940	25.3%	10,448	23.9%	1.404	0.033

4,132

27,011

4,544

9.5%

61.9%

10.4%

-0.143

1.053

-0.953

5,497

37,105

5,576

9.3%

62.9%

9.5%

SSRI antidepressants

Statins

Sulfonyureas

-0.005

0.022

-0.032



	Male Rivaroxaban Users		Male Dabi	igatran Users	Covariat	e Balance
Health Service Utilization Intensity:						
Mean number of ambulatory encounters	12.0	9.2	12.2	9.5	-0.193	-0.021
Mean number of emergency room encounters	0.3	0.8	0.3	0.7	0.041	0.056
Mean number of inpatient hospital encounters	0.4	0.7	0.4	0.7	0.003	0.005
Mean number of generics	9.2	4.6	9.2	4.6	-0.001	-0.000

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

\*\*\*\*\*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.



	Male Riv	varoxaban Users	Male D	abigatran Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	58,956	-	43,651	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	74.8	6.1	74.8	6.2	0.003	0.000
Age (Years)	Number	Percent	Number	Percent		
65-74	32,725	55.5%	24,412	55.9%	-0.420	-0.008
75-84	22,273	37.8%	16,128	36.9%	0.832	0.017
85+	3,959	6.7%	3,111	7.1%	-0.412	-0.016
Sex						
Male	58,956	100.0%	43,651	100.0%	0.000	-
Race						
American Indian or Alaska Native	139	0.2%	102	0.2%	0.003	0.001
Asian	785	1.3%	582	1.3%	-0.001	-0.000
Black or African American	1,675	2.8%	1,243	2.8%	-0.005	-0.000
Unknown	1,930	3.3%	1,433	3.3%	-0.011	-0.001
White	54,427	92.3%	40,292	92.3%	0.014	0.001
Ethnicity						
Hispanic Origin	592	1.0%	524	1.2%	-0.197	-0.019
Year						
2010	-	0.0%	627	1.4%	-1.437	-
2011	93	0.2%	15,474	35.4%	-35.292	-1.040
2012	7,310	12.4%	11,855	27.2%	-14.761	-0.377
2013	16,656	28.3%	7,492	17.2%	11.088	0.267
2014	20,714	35.1%	5,314	12.2%	22.961	0.561
2015	14,184	24.1%	2,888	6.6%	17.442	0.499
	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.3	1.4	3.3	1.4	0.001	0.001
	Number	Percent	Number	Percent		
1	3,754	6.4%	2,781	1.5	-0.002	-0.000
2	15,487	26.3%	11,460	26.3%	0.014	0.000
3	15,681	26.6%	11,608	26.6%	0.006	0.000
4	11,731	19.9%	8,682	19.9%	0.009	0.000



	Male Ri	varoxaban Users	Male D	abigatran Users	Covaria	Covariate Balance		
5	7,699	13.1%	5,705	13.1%	-0.010	-0.000		
>= 6	4,604	7.8%	3,416	7.8%	-0.017	-0.001		
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>				
HAS-BLED	2.5	0.9	2.5	0.9	-0.000	-0.000		
	Number	Percent	Number	Percent				
1	6,102	10.4%	4,516	10.3%	0.006	0.000		
2	26,639	45.2%	19,715	45.2%	0.020	0.000		
3	18,331	31.1%	13,573	31.1%	-0.002	-0.000		
>= 4	7,885	13.4%	5,848	13.4%	-0.023	-0.001		
Baseline Medical Conditions -183 to -1 days:								
Acute myocardial infarction (Past 0-30 days)	852	1.4%	636	1.5%	-0.012	-0.001		
Acute myocardial infarction (Past 31-183 days)	496	0.8%	370	0.8%	-0.006	-0.001		
Cardioablation	1,575	2.7%	1,169	2.7%	-0.005	-0.000		
Cardioversion	6,171	10.5%	4,570	10.5%	-0.002	-0.000		
Coronary revascularization	11,623	19.7%	8,612	19.7%	-0.014	-0.000		
Diabetes	20,310	34.4%	15,053	34.5%	-0.034	-0.001		
Falls	2,142	3.6%	1,588	3.6%	-0.003	-0.000		
Fractures	571	1.0%	423	1.0%	0.000	0.000		
Heart failure (hospitalized)	7,010	11.9%	5,201	11.9%	-0.025	-0.001		
Heart failure (outpatient)	13,374	22.7%	9,911	22.7%	-0.020	-0.000		
Hypercholesterolemia	23,461	39.8%	17,381	39.8%	-0.024	-0.000		
Hypertension	50,104	85.0%	37,099	85.0%	-0.005	-0.000		
Kidney failure (acute)	2,983	5.1%	2,215	5.1%	-0.015	-0.001		
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference		
Kidney failure (chronic)	5,907	10.0%	4,378	10.0%	-0.011	-0.000		
Nicotine dependency	13,824	23.4%	10,243	23.5%	-0.018	-0.000		
Obesity	8,574	14.5%	6,365	14.6%	-0.039	-0.001		
Other ischemic heart disease	30,482	51.7%	22,581	51.7%	-0.027	-0.001		
Peptic ulcer disease	212	0.4%	157	0.4%	0.001	0.000		
Prior hospitalized bleeding	357	0.6%	265	0.6%	-0.001	-0.000		
Stroke (past 0-30 days)	874	1.5%	648	1.5%	-0.003	-0.000		
Stroke (past 31-183 days)	639	1.1%	474	1.1%	-0.002	-0.000		



	Male Rivar	oxaban Users	Male Dabi	gatran Users	Covaria	te Balance
Syncope	4,826	8.2%	3,571	8.2%	0.007	0.000
Transient ischemic attack	3,296	5.6%	2,437	5.6%	0.009	0.000
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	35,846	60.8%	26,543	60.8%	-0.006	-0.000
Amiodarone	6,584	11.2%	4,873	11.2%	0.004	0.000
Anti-coagulant (injectable)	4,881	8.3%	3,617	8.3%	-0.008	-0.000
Antiarrhythmics	7,260	12.3%	5,376	12.3%	-0.001	-0.000
Antiplatelets	9,800	16.6%	7,254	16.6%	0.003	0.000
Beta blockers	40,950	69.5%	30,331	69.5%	-0.027	-0.001
Calcium channel blockers	22,941	38.9%	16,992	38.9%	-0.015	-0.000
Digoxin	6,720	11.4%	4,973	11.4%	0.006	0.000
Diuretics (loop)	13,275	22.5%	9,836	22.5%	-0.017	-0.000
Diuretics (potassium sparing)	4,306	7.3%	3,190	7.3%	-0.004	-0.000
Diuretics (thiazide)	15,098	25.6%	11,180	25.6%	-0.003	-0.000
Dronedarone	2,583	4.4%	1,912	4.4%	0.001	0.000
Estrogen	****	0.0%	****	0.0%	-0.001	-0.001
Fibrates	3,048	5.2%	2,256	5.2%	0.001	0.000
H2-antagonist	2,699	4.6%	2,003	4.6%	-0.011	-0.001
Insulin	3,780	6.4%	2,804	6.4%	-0.011	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	10,003	17.0%	7,415	17.0%	-0.020	-0.001
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,234	14.0%	6,098	14.0%	-0.003	-0.000
Nitrates	5,969	10.1%	4,425	10.1%	-0.011	-0.000
Other diabetes medications	4,004	6.8%	2,962	6.8%	0.005	0.000
Proton pump inhibitors	14,593	24.8%	10,809	24.8%	-0.010	-0.000
SSRI antidepressants	5,546	9.4%	4,110	9.4%	-0.009	-0.000
Statins	36,853	62.5%	27,300	62.5%	-0.032	-0.001
Sulfonyureas	5,826	9.9%	4,315	9.9%	-0.003	-0.000



	Male Rivaroxaban Users		Male Dabigatran Users		Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.1	9.3	12.1	9.3	-0.003	-0.000
Mean number of emergency room encounters	0.3	0.7	0.3	0.8	-0.001	-0.001
Mean number of inpatient hospital encounters	0.4	0.7	0.4	0.7	-0.001	-0.001
Mean number of generics	9.2	4.6	9.2	4.6	-0.004	-0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Dabi	gatran Users	Api	xaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	84,563	100.0%	76,887	100.0%	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean Age (Years)	76.0	6.6	75.7	6.4	0.303	0.047
Age (Years)	Number	Percent	Number	Percent		
65-74	40,754	48.2%	37,862	49.2%	-1.050	-0.021
75-84	34,534	40.8%	31,785	41.3%	-0.502	-0.010
85+	9,275	11.0%	7,240	9.4%	1.552	0.051
Sex						
Female	40,870	48.3%	37,025	48.2%	0.176	0.004
Male	43,693	51.7%	39,862	51.8%	-0.176	-0.004
Race						
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	77,518	91.7%	70,988	92.3%	-0.659	-0.024
Ethnicity						
Hispanic origin	1,116	1.3%	694	0.9%	0.417	0.040
Year						
2010	1,270	1.5%	-	0.0%	1.502	-
2011	31,777	37.6%	-	0.0%	37.578	-
2012	23,085	27.3%	-	0.0%	27.299	-
2013	13,942	16.5%	8,608	11.2%	5.291	0.154
2014	9,464	11.2%	30,302	39.4%	-28.219	-0.686
2015	5,025	5.9%	37,977	49.4%	-43.451	-1.111
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.9	1.5	4.0	1.5	-0.042	-0.027
	Number	Percent	Number	Percent		
0-1	2,775	3.3%	2,049	2.7%	0.617	0.036
2	12,956	15.3%	11,591	15.1%	0.246	0.007
3	19,802	23.4%	18,638	24.2%	-0.824	-0.019



	Dab	igatran Users	Арі	ixaban Users	Covaria	te Balance
4	21,645	25.6%	18,803	24.5%	1.141	0.026
5	13,989	16.5%	13,114	17.1%	-0.514	-0.014
>= 6	13,396	15.8%	12,692	16.5%	-0.666	-0.018
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.064	-0.070
	Number	Percent	Number	Percent		
0-1	7,777	9.2%	6,449	8.4%	0.809	0.029
2	37,985	44.9%	33,027	43.0%	1.964	0.040
3	26,894	31.8%	25,020	32.5%	-0.738	-0.016
>= 4	11,907	14.1%	12,391	16.1%	-2.035	-0.057
Baseline Medical Conditions -183 to -1 days:						
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 days)	692	0.8%	857	1.1%	-0.296	-0.030
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	12,513	14.8%	12,780	16.6%	-1.825	-0.050
Diabetes	28,399	33.6%	26,301	34.2%	-0.624	-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)	10,900	12.9%	10,932	14.2%	-1.328	-0.039
Heart failure (outpatient)	20,516	24.3%	19,009	24.7%	-0.462	-0.011
Hypercholesterolemia	33,107	39.2%	29,176	37.9%	1.204	0.025
Hypertension	73,152	86.5%	67,467	87.7%	-1.242	-0.037
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
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%	-6.190	-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%	-1.638	-0.033
Peptic ulcer disease	331	0.4%	342	0.4%	-0.053	-0.008
Prior hospitalized bleeding	575	0.7%	568	0.7%	-0.059	-0.007



	Dabiga	tran Users	Apixal	ban Users	Covaria	ate Balance
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	5,572	6.6%	5,120	6.7%	-0.070	-0.003
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	50,696	60.0%	47,211	61.4%	-1.453	-0.030
Amiodarone	9,261	11.0%	8,780	11.4%	-0.468	-0.015
Anti-coagulant (injectable)	5,994	7.1%	7,513	9.8%	-2.683	-0.097
Antiarrhythmics	11,567	13.7%	10,980	14.3%	-0.602	-0.017
Antiplatelets	13,100	15.5%	12,564	16.3%	-0.849	-0.023
Beta blockers	60,057	71.0%	56,937	74.1%	-3.032	-0.068
Calcium channel blockers	36,299	42.9%	33,105	43.1%	-0.131	-0.003
Digoxin	12,654	15.0%	7,161	9.3%	5.650	0.174
Diuretics (loop)	21,919	25.9%	20,350	26.5%	-0.547	-0.012
Diuretics (potassium sparing)	7,316	8.7%	6,643	8.6%	0.012	0.000
Diuretics (thiazide)	24,803	29.3%	22,274	29.0%	0.361	0.008
Dronedarone	4,718	5.6%	3,159	4.1%	1.471	0.069
Estrogen	2,005	2.4%	1,519	2.0%	0.395	0.027
Fibrates	3,991	4.7%	3,583	4.7%	0.059	0.003
H2-antagonist	4,707	5.6%	4,381	5.7%	-0.132	-0.006
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	5,409	6.4%	5,737	7.5%	-1.065	-0.042
Metformin	12,876	15.2%	12,470	16.2%	-0.992	-0.027
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	12,780	15.1%	11,443	14.9%	0.230	0.006
Nitrates	8,493	10.0%	7,924	10.3%	-0.263	-0.009
Other diabetes medications	5,403	6.4%	4,982	6.5%	-0.090	-0.004
Proton pump inhibitors	22,725	26.9%	23,274	30.3%	-3.397	-0.075
SSRI antidepressants	11,437	13.5%	10,860	14.1%	-0.600	-0.017
Statins	49,365	58.4%	47,745	62.1%	-3.721	-0.076
Sulfonyureas	7,971	9.4%	6,831	8.9%	0.542	0.019



	Dabigatran Users		Apixaban Users		Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean number of ambulatory encounters	12.4	9.4	13.0	9.3	-0.577	-0.062
Mean number of emergency room encounters	0.3	0.7	0.4	0.8	-0.064	-0.083
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



	Dabi	gatran Users	Api	xaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	84,561	100.0%	76,886	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
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%	37,861	49.2%	-1.049	-0.021
75-84	34,534	40.8%	31,785	41.3%	-0.501	-0.010
85+	9,274	11.0%	7,240	9.4%	1.551	0.051
Sex						
Female	40,868	48.3%	37,024	48.2%	0.175	0.004
Male	43,693	51.7%	39,862	51.8%	-0.175	-0.004
Race						
American Indian or Alaska Native	224	0.3%	156	0.2%	0.062	0.013
Asian	1,362	1.6%	786	1.0%	0.588	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%	70,987	92.3%	-0.658	-0.024
Ethnicity						
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%	37.578	-
2012	23,084	27.3%	-	0.0%	27.299	-
2013	13,942	16.5%	8,608	11.2%	5.292	0.154
2014	9,464	11.2%	30,302	39.4%	-28.220	-0.686
2015	5,025	5.9%	37,976	49.4%	-43.450	-1.111
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.9	1.5	4.0	1.5	-0.043	-0.027
	Number	Percent	Number	Percent		
0-1	2,775	3.3%	2,049	2.7%	0.617	0.036
2	12,956	15.3%	11,591	15.1%	0.246	0.007
3	19,802	23.4%	18,638	24.2%	-0.824	-0.019



	Dab	igatran Users	Арі	ixaban Users	Covaria	ite Balance
4	21,645	25.6%	18,802	24.5%	1.143	0.026
5	13,989	16.5%	13,114	17.1%	-0.513	-0.014
>= 6	13,394	15.8%	12,692	16.5%	-0.668	-0.018
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.064	-0.070
	Number	Percent	Number	Percent		
0-1	7,777	9.2%	6,449	8.4%	0.809	0.029
2	37,985	44.9%	33,027	43.0%	1.964	0.040
3	26,894	31.8%	25,019	32.5%	-0.736	-0.016
>= 4	11,905	14.1%	12,391	16.1%	-2.037	-0.057
Baseline Medical Conditions -183 to -1 days:						
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 days)	692	0.8%	857	1.1%	-0.296	-0.030
Cardioablation	1,910	2.3%	1,855	2.4%	-0.154	-0.010
Cardioversion	8,105	9.6%	8,173	10.6%	-1.045	-0.035
Coronary revascularization	12,513	14.8%	12,780	16.6%	-1.824	-0.050
Diabetes	28,398	33.6%	26,300	34.2%	-0.624	-0.013
Falls	3,887	4.6%	3,735	4.9%	-0.261	-0.012
Fractures	1,134	1.3%	992	1.3%	0.051	0.004
Heart failure (hospitalized)	10,898	12.9%	10,932	14.2%	-1.331	-0.039
Heart failure (outpatient)	20,514	24.3%	19,008	24.7%	-0.463	-0.011
Hypercholesterolemia	33,107	39.2%	29,175	37.9%	1.206	0.025
Hypertension	73,150	86.5%	67,466	87.7%	-1.242	-0.037
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (acute)	3,746	4.4%	5,426	7.1%	-2.627	-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%	-6.190	-0.153
Obesity	11,364	13.4%	14,262	18.5%	-5.111	-0.140
Other ischemic heart disease	38,636	45.7%	36,389	47.3%	-1.638	-0.033
Peptic ulcer disease	331	0.4%	342	0.4%	-0.053	-0.008
Prior hospitalized bleeding	575	0.7%	568	0.7%	-0.059	-0.007



	Dabiga	tran Users	Apixal	oan Users	Covaria	ate Balance
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	7,440	8.8%	7,446	9.7%	-0.886	-0.031
Transient ischemic attack	5,572	6.6%	5,120	6.7%	-0.070	-0.003
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	50,695	60.0%	47,210	61.4%	-1.452	-0.030
Amiodarone	9,260	11.0%	8,780	11.4%	-0.469	-0.015
Anti-coagulant (injectable)	5,994	7.1%	7,512	9.8%	-2.682	-0.097
Antiarrhythmics	11,567	13.7%	10,979	14.3%	-0.601	-0.017
Antiplatelets	13,098	15.5%	12,564	16.3%	-0.852	-0.023
Beta blockers	60,055	71.0%	56,936	74.1%	-3.033	-0.068
Calcium channel blockers	36,298	42.9%	33,104	43.1%	-0.131	-0.003
Digoxin	12,652	15.0%	7,161	9.3%	5.648	0.174
Diuretics (loop)	21,917	25.9%	20,350	26.5%	-0.549	-0.012
Diuretics (potassium sparing)	7,316	8.7%	6,643	8.6%	0.012	0.000
Diuretics (thiazide)	24,802	29.3%	22,274	29.0%	0.360	0.008
Dronedarone	4,718	5.6%	3,159	4.1%	1.471	0.069
Estrogen	2,005	2.4%	1,519	2.0%	0.395	0.027
Fibrates	3,991	4.7%	3,583	4.7%	0.060	0.003
H2-antagonist	4,707	5.6%	4,381	5.7%	-0.132	-0.006
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	5,408	6.4%	5,737	7.5%	-1.066	-0.042
Metformin	12,876	15.2%	12,470	16.2%	-0.992	-0.027
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	12,779	15.1%	11,442	14.9%	0.230	0.006
Nitrates	8,492	10.0%	7,924	10.3%	-0.264	-0.009
Other diabetes medications	5,403	6.4%	4,982	6.5%	-0.090	-0.004
Proton pump inhibitors	22,724	26.9%	23,273	30.3%	-3.397	-0.075
SSRI antidepressants	11,437	13.5%	10,860	14.1%	-0.600	-0.017
Statins	49,365	58.4%	47,745	62.1%	-3.720	-0.076
Sulfonyureas	7,970	9.4%	6,831	8.9%	0.541	0.019



	Dabigatran Users		Apixaban Users		Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.4	9.4	13.0	9.3	-0.577	-0.062
Mean number of emergency room encounters	0.3	0.7	0.4	0.8	-0.064	-0.083
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	0.003	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



	Dabi	gatran Users	Api	xaban Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	84,600	-	76,863	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.9	6.6	75.9	6.4	0.001	0.000
Age (Years)	Number	Percent	Number	Percent		
65-74	41,640	49.2%	37,206	48.4%	0.813	0.016
75-84	34,097	40.3%	32,080	41.7%	-1.433	-0.029
85+	8,864	10.5%	7,577	9.9%	0.619	0.020
Sex						
Female	40,779	48.2%	37,055	48.2%	-0.007	-0.000
Male	43,821	51.8%	39,808	51.8%	0.007	0.000
Race						
American Indian or Alaska Native	199	0.2%	181	0.2%	0.000	0.000
Asian	1,122	1.3%	1,014	1.3%	0.007	0.001
Black or African American	3,089	3.7%	2,811	3.7%	-0.005	-0.000
Unknown	2,382	2.8%	2,165	2.8%	-0.001	-0.000
White	77,808	92.0%	70,693	92.0%	-0.001	-0.000
Ethnicity						
Hispanic origin	1,083	1.3%	725	0.9%	0.337	0.032
Year						
2010	1,202	1.4%	-	0.0%	1.421	-
2011	31,009	36.7%	-	0.0%	36.654	-
2012	23,021	27.2%	-	0.0%	27.211	-
2013	14,210	16.8%	8,890	11.6%	5.231	0.150
2014	9,858	11.7%	30,468	39.6%	-27.987	-0.677
2015	5,300	6.3%	37,505	48.8%	-42.530	-1.083
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.9	1.6	3.9	1.5	-0.003	-0.002
	Number	Percent	Number	Percent		
0-1	2,534	3.0%	2,315	3.0%	-0.016	-0.001
2	12,840	15.2%	11,661	15.2%	0.006	0.000
3	20,155	23.8%	18,301	23.8%	0.014	0.000



	Dab	igatran Users	Арі	ixaban Users	Covaria	ate Balance
4	21,176	25.0%	19,240	25.0%	0.000	0.000
5	14,190	16.8%	12,903	16.8%	-0.014	-0.000
>= 6	13,704	16.2%	12,444	16.2%	0.009	0.000
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.6	0.9	2.6	0.9	0.001	0.001
	Number	Percent	Number	Percent		
0-1	7,447	8.8%	6,775	8.8%	-0.012	-0.000
2	37,170	43.9%	33,786	44.0%	-0.020	-0.000
3	27,231	32.2%	24,727	32.2%	0.018	0.000
>= 4	12,752	15.1%	11,575	15.1%	0.014	0.000
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	1,141	1.3%	1,035	1.3%	0.002	0.000
Acute myocardial infarction (Past 31-183 days)	827	1.0%	742	1.0%	0.012	0.001
Cardioablation	1,968	2.3%	1,788	2.3%	0.001	0.000
Cardioversion	8,563	10.1%	7,786	10.1%	-0.008	-0.000
Coronary revascularization	13,264	15.7%	12,056	15.7%	-0.007	-0.000
Diabetes	28,706	33.9%	26,074	33.9%	0.008	0.000
Falls	4,007	4.7%	3,636	4.7%	0.006	0.000
Fractures	1,116	1.3%	1,010	1.3%	0.004	0.000
Heart failure (hospitalized)	11,503	13.6%	10,452	13.6%	-0.001	-0.000
Heart failure (outpatient)	20,760	24.5%	18,880	24.6%	-0.025	-0.001
Hypercholesterolemia	32,655	38.6%	29,662	38.6%	0.009	0.000
Hypertension	73,684	87.1%	66,927	87.1%	0.023	0.001
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (acute)	4,853	5.7%	4,387	5.7%	0.030	0.001
Kidney failure (chronic)	9,924	11.7%	8,993	11.7%	0.031	0.001
Nicotine dependency	17,593	20.8%	15,962	20.8%	0.029	0.001
Obesity	13,500	16.0%	12,237	15.9%	0.037	0.001

35,751

321

544

46.5%

0.4%

0.7%

0.016

-0.002

0.004

39,363

352

602

46.5%

0.4%

0.7%

Peptic ulcer disease

Other ischemic heart disease

Prior hospitalized bleeding

0.000

-0.000

0.000



	Dabiga	tran Users	Apixa	ban Users	Covaria	ate Balance
Stroke (past 0-30 days)	1,466	1.7%	1,334	1.7%	-0.003	-0.000
Stroke (past 31-183 days)	1,248	1.5%	1,131	1.5%	0.004	0.000
Syncope	7,807	9.2%	7,082	9.2%	0.014	0.000
Transient ischemic attack	5,600	6.6%	5,091	6.6%	-0.004	-0.000
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	51,348	60.7%	46,641	60.7%	0.013	0.000
Amiodarone	9,437	11.2%	8,589	11.2%	-0.019	-0.001
Anti-coagulant (injectable)	7,110	8.4%	6,449	8.4%	0.014	0.000
Antiarrhythmics	11,833	14.0%	10,758	14.0%	-0.009	-0.000
Antiplatelets	13,409	15.8%	12,170	15.8%	0.016	0.000
Beta blockers	61,352	72.5%	55,760	72.5%	-0.025	-0.001
Calcium channel blockers	36,322	42.9%	33,007	42.9%	-0.009	-0.000
Digoxin	10,391	12.3%	9,447	12.3%	-0.008	-0.000
Diuretics (loop)	22,212	26.3%	20,194	26.3%	-0.018	-0.000
Diuretics (potassium sparing)	7,345	8.7%	6,676	8.7%	-0.003	-0.000
Diuretics (thiazide)	24,667	29.2%	22,397	29.1%	0.018	0.000
Dronedarone	4,121	4.9%	3,735	4.9%	0.013	0.001
Estrogen	1,842	2.2%	1,669	2.2%	0.006	0.000
Fibrates	3,964	4.7%	3,605	4.7%	-0.005	-0.000
H2-antagonist	4,788	5.7%	4,338	5.6%	0.015	0.001
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	5,873	6.9%	5,328	6.9%	0.011	0.000
Metformin	13,314	15.7%	12,089	15.7%	0.010	0.000
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	12,733	15.1%	11,565	15.0%	0.006	0.000
Nitrates	8,615	10.2%	7,820	10.2%	0.010	0.000
Other diabetes medications	5,447	6.4%	4,948	6.4%	0.001	0.000
Proton pump inhibitors	24,145	28.5%	21,911	28.5%	0.035	0.001
SSRI antidepressants	11,713	13.8%	10,639	13.8%	0.004	0.000
Statins	50,918	60.2%	46,264	60.2%	-0.004	-0.000
Sulfonyureas	7,754	9.2%	7,055	9.2%	-0.014	-0.000



	Dabigatran Users		Ар	ixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.7	9.6	12.7	9.1	0.005	0.001
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	0.002	0.002
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	0.000	0.000
Mean number of generics	9.9	4.9	9.9	4.8	0.004	0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Female	Dabigatran Users	Female	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	40,870	100.0%	37,025	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean Age (Years)	77.2	6.8	76.3	6.5	0.893	0.134
Age (Years)	Number	Percent	Number	Percent		
65-74	16,721	40.9%	16,772	45.3%	-4.386	-0.089
75-84	18,129	44.4%	16,179	43.7%	0.660	0.013
85+	6,020	14.7%	4,074	11.0%	3.726	0.111
Sex						
Female	40,870	100.0%	37,025	100.0%	0.000	-
Race						
American Indian or Alaska Native	125	0.3%	77	0.2%	0.098	0.019
Asian	703	1.7%	400	1.1%	0.640	0.054
Black or African American	1,797	4.4%	1,682	4.5%	-0.146	-0.007
Unknown	1,145	2.8%	796	2.1%	0.652	0.042
White	37,100	90.8%	34,070	92.0%	-1.243	-0.044
Ethnicity						
Hispanic Origin	627	1.5%	389	1.1%	0.483	0.043
Year						
2010	615	1.5%	-	0.0%	1.505	-
2011	15,938	39.0%	-	0.0%	38.997	-
2012	11,220	27.5%	-	0.0%	27.453	-
2013	6,582	16.1%	4,036	10.9%	5.204	0.153
2014	4,284	10.5%	14,669	39.6%	-29.137	-0.714
2015	2,231	5.5%	18,320	49.5%	-44.021	-1.134
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.5	1.4	4.5	1.5	0.014	0.009
	Number	Percent	Number	Percent		
0-1	-	0.0%	-	1.5	0.000	-
2	1,733	4.2%	1,843	5.0%	-0.737	-0.035
3	8,226	20.1%	8,012	21.6%	-1.512	-0.037
4	12,778	31.3%	10,727	29.0%	2.293	0.050



	Female	Dabigatran Users	Female	e Apixaban Users	Covaria	ate Balance
5	8,206	20.1%	7,310	19.7%	0.335	0.008
>= 6	9,927	24.3%	9,133	24.7%	-0.378	-0.009
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.6	0.9	2.6	0.9	-0.036	-0.040
	Number	Percent	Number	Percent		
0-1	3,247	7.9%	2,949	8.0%	-0.020	-0.001
2	18,388	45.0%	16,073	43.4%	1.580	0.032
3	13,287	32.5%	12,123	32.7%	-0.232	-0.005
>= 4	5,948	14.6%	5,880	15.9%	-1.328	-0.037
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	440	1.1%	504	1.4%	-0.285	-0.026
Acute myocardial infarction (Past 31-183 days)	311	0.8%	384	1.0%	-0.276	-0.029
Cardioablation	693	1.7%	740	2.0%	-0.303	-0.023
Cardioversion	3,408	8.3%	3,433	9.3%	-0.933	-0.033
Coronary revascularization	3,936	9.6%	3,948	10.7%	-1.033	-0.034
Diabetes	13,086	32.0%	12,041	32.5%	-0.503	-0.011
Falls	2,342	5.7%	2,238	6.0%	-0.314	-0.013
Fractures	735	1.8%	586	1.6%	0.216	0.017
Heart failure (hospitalized)	5,781	14.1%	5,711	15.4%	-1.280	-0.036
Heart failure (outpatient)	10,223	25.0%	9,289	25.1%	-0.075	-0.002
Hypercholesterolemia	15,369	37.6%	13,441	36.3%	1.302	0.027
Hypertension	36,099	88.3%	32,827	88.7%	-0.335	-0.011
Kidney failure (acute)	1,631	4.0%	2,448	6.6%	-2.621	-0.117
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	3,710	9.1%	4,592	12.4%	-3.325	-0.108
Nicotine dependency	5,935	14.5%	7,442	20.1%	-5.578	-0.148
Obesity	5,686	13.9%	7,352	19.9%	-5.944	-0.159
Other ischemic heart disease	15,668	38.3%	14,416	38.9%	-0.600	-0.012
Peptic ulcer disease	176	0.4%	193	0.5%	-0.091	-0.013
Prior hospitalized bleeding	309	0.8%	303	0.8%	-0.062	-0.007
Stroke (past 0-30 days)	816	2.0%	695	1.9%	0.119	0.009
Stroke (past 31-183 days)	677	1.7%	645	1.7%	-0.086	-0.007



	Female Dat	oigatran Users	Female Ap	Female Apixaban Users		ate Balance
Syncope	3,952	9.7%	3,968	10.7%	-1.047	-0.035
Transient ischemic attack	3,049	7.5%	2,744	7.4%	0.049	0.002
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	24,156	59.1%	22,108	59.7%	-0.607	-0.012
Amiodarone	4,248	10.4%	3,966	10.7%	-0.318	-0.010
Anti-coagulant (injectable)	2,831	6.9%	3,554	9.6%	-2.672	-0.097
Antiarrhythmics	6,026	14.7%	5,940	16.0%	-1.299	-0.036
Antiplatelets	5,813	14.2%	5,049	13.6%	0.586	0.017
Beta blockers	29,879	73.1%	27,999	75.6%	-2.514	-0.058
Calcium channel blockers	19,444	47.6%	17,513	47.3%	0.275	0.006
Digoxin	6,738	16.5%	3,701	10.0%	6.490	0.192
Diuretics (loop)	11,569	28.3%	10,579	28.6%	-0.266	-0.006
Diuretics (potassium sparing)	3,970	9.7%	3,575	9.7%	0.058	0.002
Diuretics (thiazide)	13,485	33.0%	12,035	32.5%	0.490	0.010
Dronedarone	2,385	5.8%	1,666	4.5%	1.336	0.060
Estrogen	2,002	4.9%	1,515	4.1%	0.807	0.039
Fibrates	1,589	3.9%	1,460	3.9%	-0.055	-0.003
H2-antagonist	2,643	6.5%	2,419	6.5%	-0.067	-0.003
Insulin	2,559	6.3%	2,670	7.2%	-0.950	-0.038
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference

	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	5,622	13.8%	5,393	14.6%	-0.810	-0.023
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	6,626	16.2%	6,144	16.6%	-0.382	-0.010
Nitrates	3,862	9.4%	3,456	9.3%	0.115	0.004
Other diabetes medications	2,280	5.6%	2,101	5.7%	-0.096	-0.004
Proton pump inhibitors	12,267	30.0%	12,354	33.4%	-3.352	-0.072
SSRI antidepressants	7,301	17.9%	6,966	18.8%	-0.950	-0.025
Statins	22,331	54.6%	21,187	57.2%	-2.584	-0.052
Sulfonyureas	3,422	8.4%	2,911	7.9%	0.511	0.019



	Female Dabigatran Users		Female Apixaban Users		Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.7	9.4	13.2	9.2	-0.512	-0.055
Mean number of emergency room encounters	0.4	0.8	0.5	0.9	-0.076	-0.094
Mean number of inpatient hospital encounters	0.5	0.8	0.5	0.7	0.013	0.017
Mean number of generics	10.2	5.0	10.6	5.1	-0.332	-0.066

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



	Female	Dabigatran Users	Female	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	40,853	100.0%	37,024	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean Age (Years)	77.2	6.8	76.3	6.5	0.891	0.134
Age (Years)	Number	Percent	Number	Percent		
65-74	16,718	40.9%	16,771	45.3%	-4.375	-0.088
75-84	18,120	44.4%	16,179	43.7%	0.655	0.013
85+	6,015	14.7%	4,074	11.0%	3.720	0.111
Sex						
Female	40,853	100.0%	37,024	100.0%	0.000	-
Race						
American Indian or Alaska Native	124	0.3%	77	0.2%	0.096	0.019
Asian	698	1.7%	400	1.1%	0.628	0.054
Black or African American	1,797	4.4%	1,682	4.5%	-0.144	-0.007
Unknown	1,144	2.8%	796	2.1%	0.650	0.042
White	37,090	90.8%	34,069	92.0%	-1.230	-0.044
Ethnicity						
Hispanic Origin	627	1.5%	389	1.1%	0.484	0.043
Year						
2010	613	1.5%	-	0.0%	1.501	-
2011	15,932	39.0%	-	0.0%	38.998	-
2012	11,214	27.4%	-	0.0%	27.450	-
2013	6,581	16.1%	4,036	10.9%	5.208	0.153
2014	4,284	10.5%	14,669	39.6%	-29.134	-0.714
2015	2,229	5.5%	18,319	49.5%	-44.023	-1.134
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.5	1.4	4.5	1.5	0.013	0.009
	Number	Percent	Number	Percent		
0-1	-	0.0%	-	1.5	0.000	-
2	1,733	4.2%	1,843	5.0%	-0.736	-0.035
3	8,225	20.1%	8,012	21.6%	-1.507	-0.037
4	12,775	31.3%	10,726	29.0%	2.300	0.050



	Female	Dabigatran Users	Female	Apixaban Users	Covaria	ate Balance
5	8,203	20.1%	7,310	19.7%	0.335	0.008
>= 6	9,917	24.3%	9,133	24.7%	-0.393	-0.009
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.6	0.9	2.6	0.9	-0.036	-0.040
	Number	Percent	Number	Percent		
0-1	3,247	7.9%	2,949	8.0%	-0.017	-0.001
2	18,388	45.0%	16,073	43.4%	1.598	0.032
3	13,277	32.5%	12,122	32.7%	-0.241	-0.005
>= 4	5,941	14.5%	5,880	15.9%	-1.339	-0.037
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	440	1.1%	504	1.4%	-0.284	-0.026
Acute myocardial infarction (Past 31-183 days)	311	0.8%	384	1.0%	-0.276	-0.029
Cardioablation	692	1.7%	740	2.0%	-0.305	-0.023
Cardioversion	3,406	8.3%	3,433	9.3%	-0.935	-0.033
Coronary revascularization	3,933	9.6%	3,948	10.7%	-1.036	-0.034
Diabetes	13,078	32.0%	12,040	32.5%	-0.507	-0.011
Falls	2,340	5.7%	2,237	6.0%	-0.314	-0.013
Fractures	733	1.8%	586	1.6%	0.211	0.016
Heart failure (hospitalized)	5,771	14.1%	5,711	15.4%	-1.299	-0.037
Heart failure (outpatient)	10,210	25.0%	9,288	25.1%	-0.094	-0.002
Hypercholesterolemia	15,359	37.6%	13,440	36.3%	1.295	0.027
Hypertension	36,083	88.3%	32,826	88.7%	-0.337	-0.011
Kidney failure (acute)	1,630	4.0%	2,448	6.6%	-2.622	-0.117
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	3,710	9.1%	4,592	12.4%	-3.321	-0.107
Nicotine dependency	5,935	14.5%	7,442	20.1%	-5.573	-0.148
Obesity	5,686	13.9%	7,351	19.9%	-5.936	-0.159
Other ischemic heart disease	15,656	38.3%	14,415	38.9%	-0.611	-0.013
Peptic ulcer disease	176	0.4%	193	0.5%	-0.090	-0.013
Prior hospitalized bleeding	309	0.8%	303	0.8%	-0.062	-0.007
Stroke (past 0-30 days)	816	2.0%	695	1.9%	0.120	0.009
Stroke (past 31-183 days)	677	1.7%	645	1.7%	-0.085	-0.007



	Female Dabigatran Users		Female Apixaban Users		Covaria	Covariate Balance	
Syncope	3,948	9.7%	3,968	10.7%	-1.053	-0.035	
Transient ischemic attack	3,047	7.5%	2,744	7.4%	0.047	0.002	
Walker use	-	0.0%	-	0.0%	0.000	-	
Baseline Use (-183 to -1 days)							
ACEI/ARB	24,145	59.1%	22,107	59.7%	-0.608	-0.012	
Amiodarone	4,240	10.4%	3,966	10.7%	-0.333	-0.011	
Anti-coagulant (injectable)	2,830	6.9%	3,553	9.6%	-2.669	-0.097	
Antiarrhythmics	6,024	14.7%	5,939	16.0%	-1.295	-0.036	
Antiplatelets	5,803	14.2%	5,049	13.6%	0.567	0.016	
Beta blockers	29,872	73.1%	27,998	75.6%	-2.501	-0.057	
Calcium channel blockers	19,438	47.6%	17,512	47.3%	0.281	0.006	
Digoxin	6,722	16.5%	3,701	10.0%	6.458	0.192	
Diuretics (loop)	11,562	28.3%	10,579	28.6%	-0.272	-0.006	
Diuretics (potassium sparing)	3,968	9.7%	3,575	9.7%	0.057	0.002	
Diuretics (thiazide)	13,480	33.0%	12,035	32.5%	0.490	0.010	
Dronedarone	2,380	5.8%	1,666	4.5%	1.326	0.060	
Estrogen	2,000	4.9%	1,515	4.1%	0.804	0.039	
Fibrates	1,589	3.9%	1,460	3.9%	-0.054	-0.003	
H2-antagonist	2,641	6.5%	2,419	6.5%	-0.069	-0.003	
Insulin	2,558	6.3%	2,670	7.2%	-0.950	-0.038	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Metformin	5,621	13.8%	5,393	14.6%	-0.807	-0.023	
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	6,622	16.2%	6,143	16.6%	-0.383	-0.010	
Nitrates	3,857	9.4%	3,456	9.3%	0.107	0.004	
Other diabetes medications	2,279	5.6%	2,101	5.7%	-0.096	-0.004	
Proton pump inhibitors	12,261	30.0%	12,353	33.4%	-3.352	-0.072	
SSRI antidepressants	7,297	17.9%	6,966	18.8%	-0.953	-0.025	
Statins	22,321	54.6%	21,187	57.2%	-2.588	-0.052	
Sulfonyureas	3,420	8.4%	2,911	7.9%	0.509	0.019	



	Female Dabigatran Users		Female	e Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.7	9.4	13.2	9.2	-0.512	-0.055
Mean number of emergency room encounters	0.4	0.8	0.5	0.8	-0.075	-0.094
Mean number of inpatient hospital encounters	0.5	0.8	0.5	0.7	0.011	0.015
Mean number of generics	10.2	5.0	10.6	5.1	-0.333	-0.066

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



	Female	Dabigatran Users	Female	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	40,884	-	37,009	-	-	-
Demographics	Mean	Standard Deviation	Mean	Standard Deviation		
Mean Age (Years)	76.7	6.8	76.7	6.6	-0.002	-0.000
Age (Years)	Number	Percent	Number	Percent		
65-74	17,924	43.8%	15,756	42.6%	1.269	0.026
75-84	17,513	42.8%	16,679	45.1%	-2.230	-0.045
85+	5,447	13.3%	4,575	12.4%	0.961	0.029
Sex						
Female	40,884	100.0%	37,009	100.0%	0.000	-
Race						
American Indian or Alaska Native	105	0.3%	95	0.3%	-0.000	-0.000
Asian	574	1.4%	515	1.4%	0.012	0.001
Black or African American	1,829	4.5%	1,658	4.5%	-0.007	-0.000
Unknown	1,019	2.5%	926	2.5%	-0.008	-0.001
White	37,357	91.4%	33,815	91.4%	0.004	0.000
Ethnicity						
Hispanic Origin	560	1.4%	461	1.2%	0.122	0.011
Year						
2010	573	1.4%	-	0.0%	1.402	-
2011	15,486	37.9%	-	0.0%	37.879	-
2012	11,193	27.4%	-	0.0%	27.378	-
2013	6,737	16.5%	4,184	11.3%	5.173	0.150
2014	4,506	11.0%	14,765	39.9%	-28.874	-0.703
2015	2,388	5.8%	18,061	48.8%	-42.959	-1.100
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.5	1.4	4.5	1.5	-0.007	-0.005
	Number	Percent	Number	Percent		
0-1	-	0.0%	-	1.5	0.000	-
2	1,876	4.6%	1,699	4.6%	-0.003	-0.000
3	8,523	20.8%	7,717	20.9%	-0.004	-0.000
4	12,313	30.1%	11,141	30.1%	0.013	0.000



	Female Dabigatran Users		Female Apixaban Users		Covariate Balance	
5	8,135	19.9%	7,369	19.9%	-0.014	-0.000
>= 6	10,037	24.6%	9,083	24.5%	0.009	0.000
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.6	0.9	2.6	0.9	-0.000	-0.000
	Number	Percent	Number	Percent		
0-1	3,241	7.9%	2,937	7.9%	-0.008	-0.000
2	18,059	44.2%	16,354	44.2%	-0.018	-0.000
3	13,366	32.7%	12,094	32.7%	0.016	0.000
>= 4	6,217	15.2%	5,624	15.2%	0.010	0.000
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	496	1.2%	449	1.2%	-0.002	-0.000
Acute myocardial infarction (Past 31-183 days)	369	0.9%	331	0.9%	0.010	0.001
Cardioablation	752	1.8%	681	1.8%	-0.001	-0.000
Cardioversion	3,618	8.9%	3,280	8.9%	-0.012	-0.000
Coronary revascularization	4,150	10.2%	3,761	10.2%	-0.010	-0.000
Diabetes	13,218	32.3%	11,970	32.3%	-0.013	-0.000
Falls	2,417	5.9%	2,180	5.9%	0.021	0.001
Fractures	697	1.7%	630	1.7%	0.003	0.000
Heart failure (hospitalized)	6,077	14.9%	5,498	14.9%	0.006	0.000
Heart failure (outpatient)	10,261	25.1%	9,298	25.1%	-0.024	-0.001
Hypercholesterolemia	15,152	37.1%	13,705	37.0%	0.031	0.001
Hypertension	36,185	88.5%	32,757	88.5%	-0.004	-0.000
Kidney failure (acute)	2,153	5.3%	1,942	5.2%	0.019	0.001
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	4,372	10.7%	3,947	10.7%	0.030	0.001
Nicotine dependency	7,071	17.3%	6,387	17.3%	0.039	0.001
Obesity	6,903	16.9%	6,226	16.8%	0.063	0.002
Other ischemic heart disease	15,828	38.7%	14,318	38.7%	0.025	0.001
Peptic ulcer disease	193	0.5%	174	0.5%	0.002	0.000
Prior hospitalized bleeding	320	0.8%	287	0.8%	0.006	0.001
Stroke (past 0-30 days)	792	1.9%	720	1.9%	-0.008	-0.001
Stroke (past 31-183 days)	700	1.7%	631	1.7%	0.006	0.000



	Female Dabigatran Users		Female Apixaban Users		Covariate Balance	
Syncope	4,163	10.2%	3,763	10.2%	0.016	0.001
Transient ischemic attack	3,048	7.5%	2,747	7.4%	0.034	0.001
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	24,314	59.5%	22,016	59.5%	-0.019	-0.000
Amiodarone	4,327	10.6%	3,916	10.6%	0.001	0.000
Anti-coagulant (injectable)	3,372	8.2%	3,046	8.2%	0.019	0.001
Antiarrhythmics	6,294	15.4%	5,708	15.4%	-0.027	-0.001
Antiplatelets	5,691	13.9%	5,146	13.9%	0.014	0.000
Beta blockers	30,402	74.4%	27,521	74.4%	0.001	0.000
Calcium channel blockers	19,372	47.4%	17,550	47.4%	-0.038	-0.001
Digoxin	5,477	13.4%	4,965	13.4%	-0.019	-0.001
Diuretics (loop)	11,664	28.5%	10,565	28.5%	-0.017	-0.000
Diuretics (potassium sparing)	3,980	9.7%	3,593	9.7%	0.025	0.001
Diuretics (thiazide)	13,397	32.8%	12,130	32.8%	-0.008	-0.000
Dronedarone	2,119	5.2%	1,917	5.2%	0.002	0.000
Estrogen	1,839	4.5%	1,661	4.5%	0.011	0.001
Fibrates	1,608	3.9%	1,460	3.9%	-0.011	-0.001
H2-antagonist	2,670	6.5%	2,405	6.5%	0.033	0.001
Insulin	2,756	6.7%	2,494	6.7%	0.002	0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Differenc
Metformin	5,809	14.2%	5,261	14.2%	-0.007	-0.000
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	6,741	16.5%	6,097	16.5%	0.012	0.000
Nitrates	3,845	9.4%	3,485	9.4%	-0.011	-0.000
Other diabetes medications	2,308	5.6%	2,089	5.6%	0.001	0.000
Proton pump inhibitors	12,958	31.7%	11,698	31.6%	0.086	0.002
SSRI antidepressants	7,509	18.4%	6,786	18.3%	0.030	0.001
Statins	22,867	55.9%	20,700	55.9%	0.001	0.000
Sulfonyureas	3,324	8.1%	3,017	8.2%	-0.022	-0.001


Table 10. Baseline Characteristics of Female Dabigatran and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female Dabigatran Users		Female	e Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	13.0	9.6	12.9	9.0	0.010	0.001
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	0.004	0.005
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.8	-0.000	-0.000
Mean number of generics	10.4	5.1	10.4	5.0	0.007	0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Male D	abigatran Users	Male A	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	43,693	100.0%	39,862	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean Age (Years)	75.0	6.2	75.2	6.2	-0.252	-0.040
Age (Years)	Number	Percent	Number	Percent		
65-74	24,033	55.0%	21,090	52.9%	2.097	0.042
75-84	16,405	37.5%	15,606	39.2%	-1.604	-0.033
85+	3,255	7.4%	3,166	7.9%	-0.493	-0.018
Sex						
Male	43,693	100.0%	39,862	100.0%	0.000	-
Race						
American Indian or Alaska Native	99	0.2%	79	0.2%	0.028	0.006
Asian	660	1.5%	386	1.0%	0.542	0.049
Black or African American	1,200	2.7%	1,207	3.0%	-0.282	-0.017
Unknown	1,316	3.0%	1,272	3.2%	-0.179	-0.010
White	40,418	92.5%	36,918	92.6%	-0.110	-0.004
Ethnicity	489	1.1%	305	0.8%	0.354	0.037
Hispanic Origin						
Year						
2010	655	1.5%	-	0.0%	1.499	-
2011	15,839	36.3%	-	0.0%	36.251	-
2012	11,865	27.2%	-	0.0%	27.155	-
2013	7,360	16.8%	4,572	11.5%	5.375	0.155
2014	5,180	11.9%	15,633	39.2%	-27.362	-0.661
2015	2,794	6.4%	19,657	49.3%	-42.918	-1.090
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.4	1.4	3.4	1.5	-0.098	-0.068
	Number	Percent	Number	Percent		
0-1	2,775	6.4%	2,049	1.5	1.211	0.052
2	11,223	25.7%	9,748	24.5%	1.232	0.028
3	11,576	26.5%	10,626	26.7%	-0.163	-0.004
4	8,867	20.3%	8,076	20.3%	0.034	0.001



	Male D	abigatran Users	Male	Apixaban Users	Covaria	ate Balance
5	5,783	13.2%	5,804	14.6%	-1.325	-0.038
>= 6	3,469	7.9%	3,559	8.9%	-0.989	-0.036
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.091	-0.097
	Number	Percent	Number	Percent		
0-1	4,530	10.4%	3,500	8.8%	1.588	0.054
2	19,597	44.9%	16,954	42.5%	2.320	0.047
3	13,607	31.1%	12,897	32.4%	-1.212	-0.026
>= 4	5,959	13.6%	6,511	16.3%	-2.696	-0.076
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	563	1.3%	660	1.7%	-0.367	-0.030
Acute myocardial infarction (Past 31-183 days)	381	0.9%	473	1.2%	-0.315	-0.031
Cardioablation	1,217	2.8%	1,115	2.8%	-0.012	-0.001
Cardioversion	4,698	10.8%	4,740	11.9%	-1.139	-0.036
Coronary revascularization	8,577	19.6%	8,832	22.2%	-2.526	-0.062
Diabetes	15,313	35.0%	14,260	35.8%	-0.727	-0.015
Falls	1,546	3.5%	1,498	3.8%	-0.220	-0.012
Fractures	399	0.9%	406	1.0%	-0.105	-0.011
Heart failure (hospitalized)	5,119	11.7%	5,221	13.1%	-1.382	-0.042
Heart failure (outpatient)	10,293	23.6%	9,720	24.4%	-0.827	-0.019
Hypercholesterolemia	17,738	40.6%	15,735	39.5%	1.123	0.023
Hypertension	37,053	84.8%	34,640	86.9%	-2.097	-0.060
Kidney failure (acute)	2,116	4.8%	2,978	7.5%	-2.628	-0.109
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	4,626	10.6%	5,958	14.9%	-4.359	-0.131
Nicotine dependency	9,081	20.8%	10,970	27.5%	-6.736	-0.158
Obesity	5,678	13.0%	6,911	17.3%	-4.342	-0.121
Other ischemic heart disease	22,970	52.6%	21,974	55.1%	-2.554	-0.051
Peptic ulcer disease	155	0.4%	149	0.4%	-0.019	-0.003
Prior hospitalized bleeding	266	0.6%	265	0.7%	-0.056	-0.007
Stroke (past 0-30 days)	624	1.4%	663	1.7%	-0.235	-0.019
Stroke (past 31-183 days)	514	1.2%	529	1.3%	-0.151	-0.014



	Male Dabi	gatran Users	Male Api	xaban Users	Covaria	ite Balance
Syncope	3,489	8.0%	3,478	8.7%	-0.740	-0.027
Transient ischemic attack	2,523	5.8%	2,376	6.0%	-0.186	-0.008
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	26,540	60.7%	25,103	63.0%	-2.233	-0.046
Amiodarone	5,013	11.5%	4,814	12.1%	-0.603	-0.019
Anti-coagulant (injectable)	3,163	7.2%	3,959	9.9%	-2.693	-0.096
Antiarrhythmics	5,541	12.7%	5,040	12.6%	0.038	0.001
Antiplatelets	7,287	16.7%	7,515	18.9%	-2.175	-0.057
Beta blockers	30,178	69.1%	28,938	72.6%	-3.527	-0.078
Calcium channel blockers	16,855	38.6%	15,592	39.1%	-0.539	-0.011
Digoxin	5,916	13.5%	3,460	8.7%	4.860	0.155
Diuretics (loop)	10,350	23.7%	9,771	24.5%	-0.824	-0.019
Diuretics (potassium sparing)	3,346	7.7%	3,068	7.7%	-0.039	-0.001
Diuretics (thiazide)	11,318	25.9%	10,239	25.7%	0.217	0.005
Dronedarone	2,333	5.3%	1,493	3.7%	1.594	0.077
Estrogen	****	0.0%	****	0.0%	-0.003	-0.003
Fibrates	2,402	5.5%	2,123	5.3%	0.172	0.008
H2-antagonist	2,064	4.7%	1,962	4.9%	-0.198	-0.009
Insulin	2,850	6.5%	3,067	7.7%	-1.171	-0.046
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	7,254	16.6%	7,077	17.8%	-1.152	-0.031
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	6,154	14.1%	5,299	13.3%	0.791	0.023
Nitrates	4,631	10.6%	4,468	11.2%	-0.610	-0.020
Other diabetes medications	3,123	7.1%	2,881	7.2%	-0.080	-0.003
Proton pump inhibitors	10,458	23.9%	10,920	27.4%	-3.459	-0.079
SSRI antidepressants	4,136	9.5%	3,894	9.8%	-0.303	-0.010
Statins	27,034	61.9%	26,558	66.6%	-4.752	-0.099
Sulfonyureas	4,549	10.4%	3,920	9.8%	0.577	0.019



	Male Dabigatran Users		Male	Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.2	9.5	12.8	9.4	-0.639	-0.068
Mean number of emergency room encounters	0.3	0.7	0.4	0.8	-0.054	-0.072
Mean number of inpatient hospital encounters	0.4	0.7	0.5	0.7	-0.005	-0.007
Mean number of generics	9.2	4.6	9.7	4.7	-0.428	-0.092

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

\*\*\*\*\*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.



	Male D	abigatran Users	Male	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	43,693	100.0%	39,862	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.0	6.2	75.2	6.2	-0.252	-0.040
Age (Years)	Number	Percent	Number	Percent		
65-74	24,033	55.0%	21,090	52.9%	2.097	0.042
75-84	16,405	37.5%	15,606	39.2%	-1.604	-0.033
85+	3,255	7.4%	3,166	7.9%	-0.493	-0.018
Sex						
Male	43,693	100.0%	39,862	100.0%	0.000	-
Race						
American Indian or Alaska Native	99	0.2%	79	0.2%	0.028	0.006
Asian	660	1.5%	386	1.0%	0.542	0.049
Black or African American	1,200	2.7%	1,207	3.0%	-0.282	-0.017
Unknown	1,316	3.0%	1,272	3.2%	-0.179	-0.010
White	40,418	92.5%	36,918	92.6%	-0.110	-0.004
Ethnicity						
Hispanic Origin	489	1.1%	305	0.8%	0.354	0.037
Year						
2010	655	1.5%	-	0.0%	1.499	-
2011	15,839	36.3%	-	0.0%	36.251	-
2012	11,865	27.2%	-	0.0%	27.155	-
2013	7,360	16.8%	4,572	11.5%	5.375	0.155
2014	5,180	11.9%	15,633	39.2%	-27.362	-0.661
2015	2,794	6.4%	19,657	49.3%	-42.918	-1.090
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.4	1.4	3.4	1.5	-0.098	-0.068
	Number	Percent	Number	Percent		
0-1	2,775	6.4%	2,049	1.5	1.211	0.052
2	11,223	25.7%	9,748	24.5%	1.232	0.028
3	11,576	26.5%	10,626	26.7%	-0.163	-0.004
4	8,867	20.3%	8,076	20.3%	0.034	0.001



	Male D	abigatran Users	Male /	Apixaban Users	Covaria	ite Balance
5	5,783	13.2%	5,804	14.6%	-1.325	-0.038
>= 6	3,469	7.9%	3,559	8.9%	-0.989	-0.036
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.091	-0.097
	Number	Percent	Number	Percent		
0-1	4,530	10.4%	3,500	8.8%	1.588	0.054
2	19,597	44.9%	16,954	42.5%	2.320	0.047
3	13,607	31.1%	12,897	32.4%	-1.212	-0.026
>= 4	5,959	13.6%	6,511	16.3%	-2.696	-0.076
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	563	1.3%	660	1.7%	-0.367	-0.030
Acute myocardial infarction (Past 31-183 days)	381	0.9%	473	1.2%	-0.315	-0.031
Cardioablation	1,217	2.8%	1,115	2.8%	-0.012	-0.001
Cardioversion	4,698	10.8%	4,740	11.9%	-1.139	-0.036
Coronary revascularization	8,577	19.6%	8,832	22.2%	-2.526	-0.062
Diabetes	15,313	35.0%	14,260	35.8%	-0.727	-0.015
Falls	1,546	3.5%	1,498	3.8%	-0.220	-0.012
Fractures	399	0.9%	406	1.0%	-0.105	-0.011
Heart failure (hospitalized)	5,119	11.7%	5,221	13.1%	-1.382	-0.042
Heart failure (outpatient)	10,293	23.6%	9,720	24.4%	-0.827	-0.019
Hypercholesterolemia	17,738	40.6%	15,735	39.5%	1.123	0.023
Hypertension	37,053	84.8%	34,640	86.9%	-2.097	-0.060
Kidney failure (acute)	2,116	4.8%	2,978	7.5%	-2.628	-0.109
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	4,626	10.6%	5,958	14.9%	-4.359	-0.131
Nicotine dependency	9,081	20.8%	10,970	27.5%	-6.736	-0.158
Obesity	5,678	13.0%	6,911	17.3%	-4.342	-0.121
Other ischemic heart disease	22,970	52.6%	21,974	55.1%	-2.554	-0.051
Peptic ulcer disease	155	0.4%	149	0.4%	-0.019	-0.003
Prior hospitalized bleeding	266	0.6%	265	0.7%	-0.056	-0.007
Stroke (past 0-30 days)	624	1.4%	663	1.7%	-0.235	-0.019
Stroke (past 31-183 days)	514	1.2%	529	1.3%	-0.151	-0.014



	Male Dabi	gatran Users	Male Api	xaban Users	Covaria	ite Balance
Syncope	3,489	8.0%	3,478	8.7%	-0.740	-0.027
Transient ischemic attack	2,523	5.8%	2,376	6.0%	-0.186	-0.008
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	26,540	60.7%	25,103	63.0%	-2.233	-0.046
Amiodarone	5,013	11.5%	4,814	12.1%	-0.603	-0.019
Anti-coagulant (injectable)	3,163	7.2%	3,959	9.9%	-2.693	-0.096
Antiarrhythmics	5,541	12.7%	5,040	12.6%	0.038	0.001
Antiplatelets	7,287	16.7%	7,515	18.9%	-2.175	-0.057
Beta blockers	30,178	69.1%	28,938	72.6%	-3.527	-0.078
Calcium channel blockers	16,855	38.6%	15,592	39.1%	-0.539	-0.011
Digoxin	5,916	13.5%	3,460	8.7%	4.860	0.155
Diuretics (loop)	10,350	23.7%	9,771	24.5%	-0.824	-0.019
Diuretics (potassium sparing)	3,346	7.7%	3,068	7.7%	-0.039	-0.001
Diuretics (thiazide)	11,318	25.9%	10,239	25.7%	0.217	0.005
Dronedarone	2,333	5.3%	1,493	3.7%	1.594	0.077
Estrogen	****	0.0%	* * * * *	0.0%	-0.003	-0.003
Fibrates	2,402	5.5%	2,123	5.3%	0.172	0.008
H2-antagonist	2,064	4.7%	1,962	4.9%	-0.198	-0.009
Insulin	2,850	6.5%	3,067	7.7%	-1.171	-0.046
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	7,254	16.6%	7,077	17.8%	-1.152	-0.031
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	6,154	14.1%	5,299	13.3%	0.791	0.023
Nitrates	4,631	10.6%	4,468	11.2%	-0.610	-0.020
Other diabetes medications	3,123	7.1%	2,881	7.2%	-0.080	-0.003
	10,458	23.9%	10,920	27.4%	-3.459	-0.079
Proton pump inhibitors	10,450					
	4,136	9.5%	3,894	9.8%	-0.303	-0.010
Proton pump inhibitors SSRI antidepressants Statins	-		3,894 26,558	9.8% 66.6%	-0.303 -4.752	-0.010 -0.099



Male Dabigatran User		Dabigatran Users	Male	Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.2	9.5	12.8	9.4	-0.639	-0.068
Mean number of emergency room encounters	0.3	0.7	0.4	0.8	-0.054	-0.072
Mean number of inpatient hospital encounters	0.4	0.7	0.5	0.7	-0.005	-0.007
Mean number of generics	9.2	4.6	9.7	4.7	-0.428	-0.092

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

\*\*\*\*\*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 1r. Baseline Characteristics of Male Dabigatran and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Male D	abigatran Users	Male /	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	43,710	-	39,854	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.1	6.3	75.1	6.2	0.002	0.000
Age (Years)	Number	Percent	Number	Percent		
65-74	23,710	54.2%	21,433	53.8%	0.464	0.009
75-84	16,621	38.0%	15,382	38.6%	-0.572	-0.012
85+	3,379	7.7%	3,038	7.6%	0.107	0.004
Sex						
Male	43,710	100.0%	39,854	100.0%	0.000	-
Race						
American Indian or Alaska Native	93	0.2%	85	0.2%	-0.001	-0.000
Asian	545	1.2%	498	1.2%	-0.002	-0.000
Black or African American	1,265	2.9%	1,154	2.9%	-0.001	-0.000
Unknown	1,370	3.1%	1,248	3.1%	0.004	0.000
White	40,437	92.5%	36,869	92.5%	0.000	0.000
Ethnicity						
Hispanic Origin	516	1.2%	286	0.7%	0.464	0.048
Year						
2010	625	1.4%	-	0.0%	1.430	-
2011	15,501	35.5%	-	0.0%	35.463	-
2012	11,817	27.0%	-	0.0%	27.034	-
2013	7,485	17.1%	4,717	11.8%	5.290	0.151
2014	5,357	12.3%	15,707	39.4%	-27.154	-0.653
2015	2,925	6.7%	19,431	48.8%	-42.062	-1.064
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.4	1.4	3.4	1.4	-0.001	-0.001
	Number	Percent	Number	Percent		
0-1	2,530	5.8%	2,319	1.5	-0.032	-0.001
2	10,951	25.1%	9,978	25.0%	0.017	0.000
3	11,616	26.6%	10,583	26.6%	0.020	0.000
4	8,863	20.3%	8,079	20.3%	0.007	0.000



Table 1r. Baseline Characteristics of Male Dabigatran and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Male D	abigatran Users	Male	Apixaban Users	Covariate Balance		
5	6,066	13.9%	5,536	13.9%	-0.015	-0.000	
>= 6	3,684	8.4%	3,358	8.4%	0.003	0.000	
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>			
HAS-BLED	2.6	0.9	2.6	0.9	0.002	0.002	
	Number	Percent	Number	Percent			
0-1	4,207	9.6%	3,845	9.6%	-0.022	-0.001	
2	19,104	43.7%	17,422	43.7%	-0.009	-0.000	
3	13,861	31.7%	12,635	31.7%	0.008	0.000	
>= 4	6,538	15.0%	5,952	14.9%	0.023	0.001	
Baseline Medical Conditions -183 to -1 days:							
Acute myocardial infarction (Past 0-30 days)	644	1.5%	585	1.5%	0.005	0.000	
Acute myocardial infarction (Past 31-183 days)	456	1.0%	411	1.0%	0.013	0.001	
Cardioablation	1,213	2.8%	1,105	2.8%	0.004	0.000	
Cardioversion	4,939	11.3%	4,507	11.3%	-0.009	-0.000	
Coronary revascularization	9,096	20.8%	8,302	20.8%	-0.021	-0.001	
Diabetes	15,481	35.4%	14,112	35.4%	0.008	0.000	
Falls	1,593	3.6%	1,454	3.6%	-0.004	-0.000	
Fractures	418	1.0%	381	1.0%	0.000	0.000	
Heart failure (hospitalized)	5,425	12.4%	4,952	12.4%	-0.015	-0.000	
Heart failure (outpatient)	10,489	24.0%	9,583	24.0%	-0.048	-0.001	
Hypercholesterolemia	17,493	40.0%	15,958	40.0%	-0.021	-0.000	
Hypertension	37,493	85.8%	34,167	85.7%	0.047	0.001	
Kidney failure (acute)	2,697	6.2%	2,446	6.1%	0.034	0.001	
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference	
Kidney failure (chronic)	5,553	12.7%	5,049	12.7%	0.036	0.001	
Nicotine dependency	10,514	24.1%	9,576	24.0%	0.027	0.001	
Obesity	6,608	15.1%	6,014	15.1%	0.028	0.001	
Other ischemic heart disease	23,514	53.8%	21,439	53.8%	0.003	0.000	
Peptic ulcer disease	159	0.4%	147	0.4%	-0.005	-0.001	
Prior hospitalized bleeding	282	0.6%	257	0.6%	0.002	0.000	
Stroke (past 0-30 days)	675	1.5%	615	1.5%	0.001	0.000	
Stroke (past 31-183 days)	547	1.3%	496	1.2%	0.006	0.001	



 Table 1r. Baseline Characteristics of Male Dabigatran and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect,

 Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Male Dabi	gatran Users	Male Api	xaban Users	Covaria	ite Balance
Syncope	3,645	8.3%	3,317	8.3%	0.016	0.001
Transient ischemic attack	2,559	5.9%	2,342	5.9%	-0.021	-0.001
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	27,032	61.8%	24,631	61.8%	0.039	0.001
Amiodarone	5,105	11.7%	4,672	11.7%	-0.043	-0.001
Anti-coagulant (injectable)	3,744	8.6%	3,407	8.5%	0.016	0.001
Antiarrhythmics	5,539	12.7%	5,047	12.7%	0.008	0.000
Antiplatelets	7,716	17.7%	7,035	17.7%	-0.000	-0.000
Beta blockers	30,951	70.8%	28,240	70.9%	-0.050	-0.001
Calcium channel blockers	16,960	38.8%	15,452	38.8%	0.029	0.001
Digoxin	4,911	11.2%	4,487	11.3%	-0.024	-0.001
Diuretics (loop)	10,551	24.1%	9,630	24.2%	-0.026	-0.001
Diuretics (potassium sparing)	3,361	7.7%	3,077	7.7%	-0.031	-0.001
Diuretics (thiazide)	11,276	25.8%	10,266	25.8%	0.037	0.001
Dronedarone	2,000	4.6%	1,817	4.6%	0.015	0.001
Estrogen	****	0.0%	* * * * *	0.0%	0.001	0.001
Fibrates	2,354	5.4%	2,145	5.4%	0.003	0.000
H2-antagonist	2,118	4.8%	1,931	4.8%	0.002	0.000
Insulin	3,113	7.1%	2,832	7.1%	0.017	0.001
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	7,498	17.2%	6,826	17.1%	0.025	0.001
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	6,001	13.7%	5,465	13.7%	0.017	0.000
Nitrates	4,760	10.9%	4,332	10.9%	0.019	0.001
Other diabetes medications	3,135	7.2%	2,857	7.2%	0.004	0.000
Proton pump inhibitors	11,208	25.6%	10,222	25.6%	-0.007	-0.000
SSRI antidepressants	4,216	9.6%	3,846	9.7%	-0.005	-0.000
Statins	28,036	64.1%	25,574	64.2%	-0.031	-0.001
Sulfonyureas	4,422	10.1%	4,036	10.1%	-0.009	-0.000



Table 1r. Baseline Characteristics of Male Dabigatran and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Male Dabigatran Users		Male	Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.5	9.7	12.5	9.2	0.003	0.000
Mean number of emergency room encounters	0.3	0.7	0.3	0.7	0.001	0.002
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.000	-0.000
Mean number of generics	9.4	4.7	9.4	4.6	0.000	0.000

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Rivar	oxaban Users	Api	xaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	111,817	100.0%	77,233	100.0%	-	
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.5	6.4	75.7	6.4	-0.288	-0.045
Age (Years)	Number	Percent	Number	Percent		
65-74	57,788	51.7%	38,033	49.2%	2.436	0.049
75-84	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	51,898	46.4%	37,129	48.1%	-1.661	-0.033
Male	59,919	53.6%	40,104	51.9%	1.661	0.033
Race						
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	102,585	91.7%	71,333	92.4%	-0.617	-0.023
Ethnicity						
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	13,985	12.5%	-	0.0%	12.507	-
2013	31,948	28.6%	8,722	11.3%	17.279	0.443
2014	39,225	35.1%	30,571	39.6%	-4.503	-0.093
2015	26,508	23.7%	37,940	49.1%	-25.417	-0.548
	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.8	1.5	4.0	1.5	-0.148	-0.096
	Number	Percent	Number	Percent		
0-1	3,843	3.4%	2,078	2.7%	0.746	0.043
2	18,982	17.0%	11,654	15.1%	1.887	0.051
3	28,174	25.2%	18,732	24.3%	0.943	0.022



	Rivar	oxaban Users	Арі	ixaban Users	Covaria	ite Balance
4	27,230	24.4%	18,873	24.4%	-0.084	-0.002
5	17,781	15.9%	13,138	17.0%	-1.109	-0.030
>= 6	15,807	14.1%	12,758	16.5%	-2.382	-0.066
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.096	-0.104
	Number	Percent	Number	Percent		
0-1	10,926	9.8%	6,480	8.4%	1.381	0.048
2	51,173	45.8%	33,220	43.0%	2.752	0.055
3	35,080	31.4%	25,089	32.5%	-1.112	-0.024
>= 4	14,638	13.1%	12,444	16.1%	-3.021	-0.086
Baseline Medical Conditions -183 to -1 days:						
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 days)	886	0.8%	857	1.1%	-0.317	-0.033
Cardioablation	2,384	2.1%	1,870	2.4%	-0.289	-0.019
Cardioversion	10,318	9.2%	8,208	10.6%	-1.400	-0.047
Coronary revascularization	16,460	14.7%	12,836	16.6%	-1.899	-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)	14,060	12.6%	10,969	14.2%	-1.628	-0.048
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	96,189	86.0%	67,758	87.7%	-1.708	-0.051
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
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	49,248	44.0%	36,549	47.3%	-3.280	-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



	Rivarox	aban Users	Apixal	ban Users	Covaria	ate Balance
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	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	66,177	59.2%	47,413	61.4%	-2.206	-0.045
Amiodarone	11,791	10.5%	8,840	11.4%	-0.901	-0.029
Anti-coagulant (injectable)	10,015	9.0%	7,554	9.8%	-0.824	-0.028
Antiarrhythmics	15,095	13.5%	11,060	14.3%	-0.821	-0.024
Antiplatelets	16,261	14.5%	12,610	16.3%	-1.785	-0.049
Beta blockers	79,721	71.3%	57,195	74.1%	-2.759	-0.062
Calcium channel blockers	47,519	42.5%	33,224	43.0%	-0.521	-0.011
Digoxin	12,156	10.9%	7,176	9.3%	1.580	0.052
Diuretics (loop)	25,702	23.0%	20,422	26.4%	-3.456	-0.080
Diuretics (potassium sparing)	8,815	7.9%	6,687	8.7%	-0.775	-0.028
Diuretics (thiazide)	31,909	28.5%	22,383	29.0%	-0.444	-0.010
Dronedarone	4,401	3.9%	3,184	4.1%	-0.187	-0.009
Estrogen	2,400	2.1%	1,522	2.0%	0.176	0.012
Fibrates	4,800	4.3%	3,601	4.7%	-0.370	-0.018
H2-antagonist	5,973	5.3%	4,402	5.7%	-0.358	-0.016
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	6,804	6.1%	5,769	7.5%	-1.385	-0.055
Metformin	17,325	15.5%	12,498	16.2%	-0.688	-0.019
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	17,105	15.3%	11,485	14.9%	0.427	0.012
Nitrates	10,087	9.0%	7,938	10.3%	-1.257	-0.043
Other diabetes medications	6,562	5.9%	5,008	6.5%	-0.616	-0.026
Proton pump inhibitors	31,220	27.9%	23,389	30.3%	-2.363	-0.052
SSRI antidepressants	15,153	13.6%	10,896	14.1%	-0.556	-0.016
Statins	65,691	58.7%	47,936	62.1%	-3.318	-0.068
Sulfonyureas	9,335	8.3%	6,856	8.9%	-0.529	-0.019



	Rivaroxaban Users		Ар	ixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.2	9.1	13.0	9.3	-0.763	-0.083
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	-0.021	-0.027
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



	Rivar	oxaban Users	Api	xaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	111,814	100.0%	77,231	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.5	6.4	75.7	6.4	-0.288	-0.045
Age (Years)	Number	Percent	Number	Percent		
65-74	57,785	51.7%	38,033	49.2%	2.434	0.049
75-84	44,196	39.5%	31,938	41.4%	-1.828	-0.037
85+	9,833	8.8%	7,260	9.4%	-0.606	-0.021
Sex						
Female	51,898	46.4%	37,127	48.1%	-1.658	-0.033
Male	59,916	53.6%	40,104	51.9%	1.658	0.033
Race						
American Indian or Alaska Native	322	0.3%	159	0.2%	0.082	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	102,583	91.7%	71,331	92.4%	-0.616	-0.023
Ethnicity						
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	13,985	12.5%	-	0.0%	12.507	-
2013	31,948	28.6%	8,722	11.3%	17.279	0.443
2014	39,224	35.1%	30,571	39.6%	-4.504	-0.093
2015	26,506	23.7%	37,938	49.1%	-25.417	-0.548
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.8	1.5	4.0	1.5	-0.147	-0.096
	Number	Percent	Number	Percent		
0-1	3,843	3.4%	2,078	2.7%	0.746	0.043
2	18,982	17.0%	11,654	15.1%	1.887	0.051
3	28,174	25.2%	18,732	24.3%	0.943	0.022



	Rivar	oxaban Users	Ар	ixaban Users	Covaria	te Balance
4	27,229	24.4%	18,873	24.4%	-0.085	-0.002
5	17,779	15.9%	13,138	17.0%	-1.111	-0.030
>= 6	15,807	14.1%	12,756	16.5%	-2.380	-0.066
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.096	-0.104
	Number	Percent	Number	Percent		
0-1	10,926	9.8%	6,480	8.4%	1.381	0.048
2	51,172	45.8%	33,220	43.0%	2.751	0.055
3	35,080	31.4%	25,088	32.5%	-1.111	-0.024
>= 4	14,636	13.1%	12,443	16.1%	-3.022	-0.086
Baseline Medical Conditions -183 to -1 days:						
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 days)	886	0.8%	856	1.1%	-0.316	-0.033
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	16,458	14.7%	12,834	16.6%	-1.899	-0.052
Diabetes	35,979	32.2%	26,401	34.2%	-2.007	-0.043
Falls	5,332	4.8%	3,750	4.9%	-0.087	-0.004
Fractures	1,496	1.3%	993	1.3%	0.052	0.005
Heart failure (hospitalized)	14,058	12.6%	10,968	14.2%	-1.629	-0.048
Heart failure (outpatient)	24,598	22.0%	19,091	24.7%	-2.720	-0.064
Hypercholesterolemia	42,316	37.8%	29,285	37.9%	-0.074	-0.002
Hypertension	96,186	86.0%	67,756	87.7%	-1.708	-0.051
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (acute)	5,304	4.7%	5,442	7.0%	-2.303	-0.098
Kidney failure (chronic)	9,834	8.8%	10,599	13.7%	-4.929	-0.156
Nicotine dependency	24,350	21.8%	18,442	23.9%	-2.102	-0.050
Obesity	18,298	16.4%	14,307	18.5%	-2.160	-0.057
Other ischemic heart disease	49,245	44.0%	36,547	47.3%	-3.280	-0.066
Peptic ulcer disease	414	0.4%	348	0.5%	-0.080	-0.013
Prior hospitalized bleeding	733	0.7%	573	0.7%	-0.086	-0.010



	Rivarox	aban Users	Apixa	ban Users	Covaria	ate Balance
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	9,908	8.9%	7,455	9.7%	-0.792	-0.027
Transient ischemic attack	6,792	6.1%	5,149	6.7%	-0.593	-0.024
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	66,175	59.2%	47,412	61.4%	-2.207	-0.045
Amiodarone	11,791	10.5%	8,839	11.4%	-0.900	-0.029
Anti-coagulant (injectable)	10,013	9.0%	7,554	9.8%	-0.826	-0.028
Antiarrhythmics	15,095	13.5%	11,059	14.3%	-0.819	-0.024
Antiplatelets	16,261	14.5%	12,609	16.3%	-1.783	-0.049
Beta blockers	79,719	71.3%	57,193	74.1%	-2.758	-0.062
Calcium channel blockers	47,516	42.5%	33,224	43.0%	-0.523	-0.011
Digoxin	12,154	10.9%	7,176	9.3%	1.578	0.052
Diuretics (loop)	25,701	23.0%	20,420	26.4%	-3.455	-0.080
Diuretics (potassium sparing)	8,815	7.9%	6,687	8.7%	-0.775	-0.028
Diuretics (thiazide)	31,909	28.5%	22,383	29.0%	-0.444	-0.010
Dronedarone	4,401	3.9%	3,184	4.1%	-0.187	-0.009
Estrogen	2,400	2.1%	1,522	2.0%	0.176	0.012
Fibrates	4,800	4.3%	3,601	4.7%	-0.370	-0.018
H2-antagonist	5,973	5.3%	4,402	5.7%	-0.358	-0.016
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	6,803	6.1%	5,768	7.5%	-1.384	-0.055
Metformin	17,325	15.5%	12,497	16.2%	-0.687	-0.019
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	17,105	15.3%	11,484	14.9%	0.428	0.012
Nitrates	10,085	9.0%	7,936	10.3%	-1.256	-0.043
Other diabetes medications	6,562	5.9%	5,008	6.5%	-0.616	-0.026
Proton pump inhibitors	31,218	27.9%	23,388	30.3%	-2.364	-0.052
SSRI antidepressants	15,151	13.6%	10,896	14.1%	-0.558	-0.016
Statins	65,689	58.7%	47,934	62.1%	-3.317	-0.068
Sulfonyureas	9,334	8.3%	6,856	8.9%	-0.529	-0.019



	Rivaroxaban Users		Apixaban Users		Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.2	9.1	13.0	9.3	-0.762	-0.083
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	-0.022	-0.027
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.008	-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 1u. Baseline Characteristics of Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivar	oxaban Users	Api	xaban Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	111,814	-	77,234	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	75.6	6.4	75.6	6.3	0.002	0.000
Age (Years)	Number	Percent	Number	Percent		
65-74	56,893	50.9%	38,972	50.5%	0.423	0.008
75-84	44,774	40.0%	31,336	40.6%	-0.529	-0.011
85+	10,146	9.1%	6,927	9.0%	0.106	0.004
Sex						
Female	52,647	47.1%	36,369	47.1%	-0.005	-0.000
Male	59,167	52.9%	40,865	52.9%	0.005	0.000
Race						
American Indian or Alaska Native	287	0.3%	200	0.3%	-0.003	-0.001
Asian	1,341	1.2%	930	1.2%	-0.005	-0.000
Black or African American	4,070	3.6%	2,815	3.6%	-0.005	-0.000
Unknown	3,262	2.9%	2,256	2.9%	-0.003	-0.000
White	102,855	92.0%	71,034	92.0%	0.016	0.001
Ethnicity						
Hispanic origin	1,277	1.1%	723	0.9%	0.206	0.020
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	149	0.1%	-	0.0%	0.133	-
2012	13,916	12.4%	-	0.0%	12.446	-
2013	31,859	28.5%	8,795	11.4%	17.105	0.438
2014	39,255	35.1%	30,598	39.6%	-4.510	-0.093
2015	26,635	23.8%	37,841	49.0%	-25.174	-0.542
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.9	1.5	3.9	1.5	-0.003	-0.002
	Number	Percent	Number	Percent		
0-1	3,505	3.1%	2,427	3.1%	-0.007	-0.000
2	18,124	16.2%	12,520	16.2%	-0.001	-0.000
3	27,738	24.8%	19,150	24.8%	0.013	0.000



 Table 1u. Baseline Characteristics of Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized

 (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivar	oxaban Users	Ар	ixaban Users	Covaria	te Balance
4	27,273	24.4%	18,839	24.4%	-0.000	-0.000
5	18,283	16.4%	12,628	16.4%	0.001	0.000
>= 6	16,890	15.1%	11,670	15.1%	-0.005	-0.000
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.5	0.9	0.001	0.001
	Number	Percent	Number	Percent		
0-1	10,295	9.2%	7,114	9.2%	-0.003	-0.000
2	49,914	44.6%	34,476	44.6%	0.002	0.000
3	35,586	31.8%	24,582	31.8%	-0.001	-0.000
>= 4	16,019	14.3%	11,063	14.3%	0.002	0.000
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	1,642	1.5%	1,135	1.5%	-0.001	-0.000
Acute myocardial infarction (Past 31-183 days)	1,039	0.9%	717	0.9%	0.001	0.000
Cardioablation	2,514	2.2%	1,736	2.2%	0.001	0.000
Cardioversion	10,953	9.8%	7,564	9.8%	0.002	0.000
Coronary revascularization	17,336	15.5%	11,981	15.5%	-0.008	-0.000
Diabetes	36,869	33.0%	25,461	33.0%	0.007	0.000
Falls	5,382	4.8%	3,721	4.8%	-0.005	-0.000
Fractures	1,471	1.3%	1,014	1.3%	0.002	0.000
Heart failure (hospitalized)	14,782	13.2%	10,214	13.2%	-0.005	-0.000
Heart failure (outpatient)	25,819	23.1%	17,833	23.1%	0.001	0.000
Hypercholesterolemia	42,375	37.9%	29,283	37.9%	-0.017	-0.000
Hypertension	96,959	86.7%	66,967	86.7%	0.009	0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (acute)	6,363	5.7%	4,396	5.7%	-0.001	-0.000
Kidney failure (chronic)	12,082	10.8%	8,343	10.8%	0.003	0.000
Nicotine dependency	25,308	22.6%	17,485	22.6%	-0.006	-0.000
Obesity	19,294	17.3%	13,329	17.3%	-0.003	-0.000
Other ischemic heart disease	50,751	45.4%	35,053	45.4%	0.003	0.000
Peptic ulcer disease	458	0.4%	317	0.4%	-0.000	-0.000
Prior hospitalized bleeding	778	0.7%	538	0.7%	-0.001	-0.000



 Table 1u. Baseline Characteristics of Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized

 (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivarox	aban Users	Apixa	ban Users	Covaria	ate Balance
Stroke (past 0-30 days)	1,912	1.7%	1,322	1.7%	-0.003	-0.000
Stroke (past 31-183 days)	1,504	1.3%	1,039	1.3%	0.000	0.000
Syncope	10,299	9.2%	7,118	9.2%	-0.006	-0.000
Transient ischemic attack	7,072	6.3%	4,887	6.3%	-0.002	-0.000
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	67,210	60.1%	46,437	60.1%	-0.016	-0.000
Amiodarone	12,187	10.9%	8,416	10.9%	0.003	0.000
Anti-coagulant (injectable)	10,405	9.3%	7,202	9.3%	-0.019	-0.001
Antiarrhythmics	15,516	13.9%	10,730	13.9%	-0.016	-0.000
Antiplatelets	17,091	15.3%	11,805	15.3%	0.001	0.000
Beta blockers	80,975	72.4%	55,933	72.4%	-0.001	-0.000
Calcium channel blockers	47,707	42.7%	32,930	42.6%	0.030	0.001
Digoxin	11,441	10.2%	7,911	10.2%	-0.010	-0.000
Diuretics (loop)	27,254	24.4%	18,822	24.4%	0.004	0.000
Diuretics (potassium sparing)	9,170	8.2%	6,340	8.2%	-0.007	-0.000
Diuretics (thiazide)	32,115	28.7%	22,182	28.7%	0.002	0.000
Dronedarone	4,490	4.0%	3,102	4.0%	-0.000	-0.000
Estrogen	2,322	2.1%	1,608	2.1%	-0.005	-0.000
Fibrates	4,965	4.4%	3,426	4.4%	0.004	0.000
H2-antagonist	6,150	5.5%	4,252	5.5%	-0.005	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Insulin	7,424	6.6%	5,129	6.6%	-0.001	-0.000
Metformin	17,660	15.8%	12,204	15.8%	-0.007	-0.000
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	16,934	15.1%	11,708	15.2%	-0.014	-0.000
Nitrates	10,653	9.5%	7,360	9.5%	-0.001	-0.000
Other diabetes medications	6,850	6.1%	4,735	6.1%	-0.004	-0.000
Proton pump inhibitors	32,316	28.9%	22,322	28.9%	0.000	0.000
SSRI antidepressants	15,428	13.8%	10,665	13.8%	-0.010	-0.000
Statins	67,197	60.1%	46,421	60.1%	-0.006	-0.000
Sulfonyureas	9,567	8.6%	6,604	8.6%	0.006	0.000



Table 1u. Baseline Characteristics of Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Rivaroxaban Users		Ар	ixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.6	9.4	12.6	9.0	-0.007	-0.001
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	-0.001	-0.001
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.001	-0.001
Mean number of generics	9.8	4.9	9.8	4.9	-0.003	-0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Female R	ivaroxaban Users	Female	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	51,898	100.0%	37,129	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	76.3	6.6	76.3	6.5	-0.022	-0.003
Age (Years)	Number	Percent	Number	Percent		
65-74	24,112	46.5%	16,819	45.3%	1.162	0.023
75-84	21,821	42.0%	16,229	43.7%	-1.664	-0.034
85+	5,965	11.5%	4,081	11.0%	0.502	0.016
Sex						
Female	51,898	100.0%	37,129	100.0%	0.000	-
Race						
American Indian or Alaska Native	172	0.3%	78	0.2%	0.121	0.023
Asian	752	1.4%	398	1.1%	0.377	0.034
Black or African American	2,259	4.4%	1,680	4.5%	-0.172	-0.008
Unknown	1,372	2.6%	793	2.1%	0.508	0.033
White	47,343	91.2%	34,180	92.1%	-0.834	-0.030
Ethnicity						
Hispanic Origin	698	1.3%	388	1.0%	0.300	0.028
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	61	0.1%	-	0.0%	0.118	-
2012	6,763	13.0%	-	0.0%	13.031	-
2013	15,120	29.1%	4,085	11.0%	18.132	0.465
2014	18,070	34.8%	14,770	39.8%	-4.962	-0.103
2015	11,884	22.9%	18,274	49.2%	-26.319	-0.570
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.4	1.4	4.5	1.5	-0.124	-0.086
	Number	Percent	Number	Percent		
0-1	-	0.0%	-	1.5	0.000	-
2	2,877	5.5%	1,850	5.0%	0.561	0.025
3	12,230	23.6%	8,043	21.7%	1.903	0.046
4	15,511	29.9%	10,758	29.0%	0.913	0.020



	Female F	livaroxaban Users	Female	Apixaban Users	Covaria	ite Balance
5	10,048	19.4%	7,318	19.7%	-0.349	-0.009
>= 6	11,232	21.6%	9,160	24.7%	-3.028	-0.072
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.086	-0.095
	Number	Percent	Number	Percent		
0-1	4,688	9.0%	2,959	8.0%	1.064	0.038
2	23,934	46.1%	16,145	43.5%	2.634	0.053
3	16,481	31.8%	12,127	32.7%	-0.905	-0.019
>= 4	6,795	13.1%	5,898	15.9%	-2.792	-0.079
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	701	1.4%	502	1.4%	-0.001	-0.000
Acute myocardial infarction (Past 31-183 days)	404	0.8%	386	1.0%	-0.261	-0.028
Cardioablation	830	1.6%	747	2.0%	-0.413	-0.031
Cardioversion	4,169	8.0%	3,448	9.3%	-1.253	-0.045
Coronary revascularization	4,651	9.0%	3,960	10.7%	-1.704	-0.057
Diabetes	15,696	30.2%	12,071	32.5%	-2.267	-0.049
Falls	3,120	6.0%	2,241	6.0%	-0.024	-0.001
Fractures	890	1.7%	583	1.6%	0.145	0.011
Heart failure (hospitalized)	6,924	13.3%	5,720	15.4%	-2.064	-0.059
Heart failure (outpatient)	11,478	22.1%	9,314	25.1%	-2.969	-0.070
Hypercholesterolemia	18,867	36.4%	13,448	36.2%	0.134	0.003
Hypertension	45,238	87.2%	32,918	88.7%	-1.491	-0.046
Kidney failure (acute)	2,194	4.2%	2,455	6.6%	-2.385	-0.105
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	4,107	7.9%	4,602	12.4%	-4.481	-0.149
Nicotine dependency	9,232	17.8%	7,452	20.1%	-2.282	-0.058
Obesity	8,972	17.3%	7,356	19.8%	-2.524	-0.065
Other ischemic heart disease	18,697	36.0%	14,448	38.9%	-2.887	-0.060
Peptic ulcer disease	198	0.4%	196	0.5%	-0.146	-0.022
Prior hospitalized bleeding	370	0.7%	304	0.8%	-0.106	-0.012
Stroke (past 0-30 days)	938	1.8%	705	1.9%	-0.091	-0.007
Stroke (past 31-183 days)	750	1.4%	644	1.7%	-0.289	-0.023



	Female Riva	roxaban Users	Female Ap	oixaban Users	Covaria	ate Balance
Syncope	4,919	9.5%	3,964	10.7%	-1.198	-0.040
Transient ischemic attack	3,516	6.8%	2,748	7.4%	-0.626	-0.024
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	29,752	57.3%	22,178	59.7%	-2.404	-0.049
Amiodarone	5,221	10.1%	3,990	10.7%	-0.686	-0.022
Anti-coagulant (injectable)	4,618	8.9%	3,561	9.6%	-0.693	-0.024
Antiarrhythmics	7,806	15.0%	5,965	16.1%	-1.025	-0.028
Antiplatelets	6,350	12.2%	5,056	13.6%	-1.382	-0.041
Beta blockers	37,978	73.2%	28,079	75.6%	-2.447	-0.056
Calcium channel blockers	24,105	46.4%	17,569	47.3%	-0.872	-0.017
Digoxin	6,260	12.1%	3,716	10.0%	2.054	0.066
Diuretics (loop)	12,776	24.6%	10,598	28.5%	-3.926	-0.089
Diuretics (potassium sparing)	4,585	8.8%	3,595	9.7%	-0.848	-0.029
Diuretics (thiazide)	16,673	32.1%	12,079	32.5%	-0.406	-0.009
Dronedarone	2,145	4.1%	1,672	4.5%	-0.370	-0.018
Estrogen	2,395	4.6%	1,518	4.1%	0.526	0.026
Fibrates	1,850	3.6%	1,459	3.9%	-0.365	-0.019
H2-antagonist	3,303	6.4%	2,417	6.5%	-0.145	-0.006
Insulin	3,015	5.8%	2,672	7.2%	-1.387	-0.056
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	7,040	13.6%	5,391	14.5%	-0.955	-0.027
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,799	17.0%	6,151	16.6%	0.388	0.010
Nitrates	4,281	8.2%	3,461	9.3%	-1.073	-0.038
Other diabetes medications	2,672	5.1%	2,113	5.7%	-0.542	-0.024
Proton pump inhibitors	16,044	30.9%	12,392	33.4%	-2.461	-0.053
SSRI antidepressants	9,558	18.4%	6,975	18.8%	-0.369	-0.009
Statins	28,019	54.0%	21,240	57.2%	-3.217	-0.065
Sulfonyureas	3,681	7.1%	2,918	7.9%	-0.766	-0.029



	Female Rivaroxaban Users		Femal	e Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.5	9.0	13.2	9.2	-0.660	-0.073
Mean number of emergency room encounters	0.4	0.8	0.5	0.9	-0.028	-0.034
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.009	-0.013
Mean number of generics	10.1	5.0	10.6	5.1	-0.443	-0.087

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



	Female R	ivaroxaban Users	Female	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	51,898	100.0%	37,125	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean Age (Years)	76.3	6.6	76.3	6.5	-0.022	-0.003
Age (Years)	Number	Percent	Number	Percent		
65-74	24,112	46.5%	16,817	45.3%	1.162	0.023
75-84	21,821	42.0%	16,228	43.7%	-1.666	-0.034
85+	5,965	11.5%	4,080	11.0%	0.504	0.016
Sex						
Female	51,898	100.0%	37,125	100.0%	0.000	-
Race						
American Indian or Alaska Native	172	0.3%	78	0.2%	0.121	0.023
Asian	752	1.4%	398	1.1%	0.377	0.034
Black or African American	2,259	4.4%	1,680	4.5%	-0.172	-0.008
Unknown	1,372	2.6%	793	2.1%	0.508	0.033
White	47,343	91.2%	34,176	92.1%	-0.833	-0.030
Ethnicity						
Hispanic Origin	698	1.3%	388	1.0%	0.300	0.028
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	61	0.1%	-	0.0%	0.118	-
2012	6,763	13.0%	-	0.0%	13.031	-
2013	15,120	29.1%	4,085	11.0%	18.131	0.465
2014	18,070	34.8%	14,769	39.8%	-4.964	-0.103
2015	11,884	22.9%	18,271	49.2%	-26.316	-0.570
	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.4	1.4	4.5	1.5	-0.124	-0.085
	Number	Percent	Number	Percent		
0-1	-	0.0%	-	1.5	0.000	-
2	2,877	5.5%	1,850	5.0%	0.560	0.025
3	12,230	23.6%	8,043	21.7%	1.901	0.045
4	15,511	29.9%	10,758	29.0%	0.910	0.020



	Female R	ivaroxaban Users	Female	Apixaban Users	Covaria	ate Balance
5	10,048	19.4%	7,318	19.7%	-0.351	-0.009
>= 6	11,232	21.6%	9,156	24.7%	-3.020	-0.072
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.086	-0.095
	Number	Percent	Number	Percent		
0-1	4,688	9.0%	2,959	8.0%	1.063	0.038
2	23,934	46.1%	16,145	43.5%	2.629	0.053
3	16,481	31.8%	12,126	32.7%	-0.906	-0.019
>= 4	6,795	13.1%	5,895	15.9%	-2.786	-0.079
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	701	1.4%	502	1.4%	-0.001	-0.000
Acute myocardial infarction (Past 31-183 days)	404	0.8%	386	1.0%	-0.261	-0.028
Cardioablation	830	1.6%	745	2.0%	-0.407	-0.031
Cardioversion	4,169	8.0%	3,445	9.3%	-1.246	-0.044
Coronary revascularization	4,651	9.0%	3,957	10.7%	-1.697	-0.057
Diabetes	15,696	30.2%	12,067	32.5%	-2.260	-0.049
Falls	3,120	6.0%	2,241	6.0%	-0.025	-0.001
Fractures	890	1.7%	583	1.6%	0.145	0.011
Heart failure (hospitalized)	6,924	13.3%	5,717	15.4%	-2.058	-0.059
Heart failure (outpatient)	11,478	22.1%	9,311	25.1%	-2.964	-0.070
Hypercholesterolemia	18,867	36.4%	13,446	36.2%	0.136	0.003
Hypertension	45,238	87.2%	32,914	88.7%	-1.490	-0.046
Kidney failure (acute)	2,194	4.2%	2,451	6.6%	-2.374	-0.105
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	4,107	7.9%	4,598	12.4%	-4.472	-0.148
Nicotine dependency	9,232	17.8%	7,449	20.1%	-2.276	-0.058
Obesity	8,972	17.3%	7,353	19.8%	-2.518	-0.065
Other ischemic heart disease	18,697	36.0%	14,445	38.9%	-2.883	-0.060
Peptic ulcer disease	198	0.4%	196	0.5%	-0.146	-0.022
Prior hospitalized bleeding	370	0.7%	304	0.8%	-0.106	-0.012
Stroke (past 0-30 days)	938	1.8%	705	1.9%	-0.092	-0.007
Stroke (past 31-183 days)	750	1.4%	644	1.7%	-0.290	-0.023



	Female Riva	roxaban Users	Female Ap	oixaban Users	Covaria	ate Balance
Syncope	4,919	9.5%	3,964	10.7%	-1.199	-0.040
Transient ischemic attack	3,516	6.8%	2,747	7.4%	-0.624	-0.024
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	29,752	57.3%	22,177	59.7%	-2.408	-0.049
Amiodarone	5,221	10.1%	3,988	10.7%	-0.682	-0.022
Anti-coagulant (injectable)	4,618	8.9%	3,561	9.6%	-0.694	-0.024
Antiarrhythmics	7,806	15.0%	5,962	16.1%	-1.018	-0.028
Antiplatelets	6,350	12.2%	5,054	13.6%	-1.378	-0.041
Beta blockers	37,978	73.2%	28,075	75.6%	-2.445	-0.056
Calcium channel blockers	24,105	46.4%	17,567	47.3%	-0.872	-0.017
Digoxin	6,260	12.1%	3,716	10.0%	2.053	0.066
Diuretics (loop)	12,776	24.6%	10,594	28.5%	-3.919	-0.089
Diuretics (potassium sparing)	4,585	8.8%	3,595	9.7%	-0.849	-0.029
Diuretics (thiazide)	16,673	32.1%	12,078	32.5%	-0.407	-0.009
Dronedarone	2,145	4.1%	1,672	4.5%	-0.371	-0.018
Estrogen	2,395	4.6%	1,518	4.1%	0.526	0.026
Fibrates	1,850	3.6%	1,459	3.9%	-0.365	-0.019
H2-antagonist	3,303	6.4%	2,417	6.5%	-0.146	-0.006
Insulin	3,015	5.8%	2,671	7.2%	-1.385	-0.056
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	7,040	13.6%	5,390	14.5%	-0.953	-0.027
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,799	17.0%	6,150	16.6%	0.389	0.010
Nitrates	4,281	8.2%	3,459	9.3%	-1.068	-0.038
Other diabetes medications	2,672	5.1%	2,112	5.7%	-0.540	-0.024
Proton pump inhibitors	16,044	30.9%	12,389	33.4%	-2.457	-0.053
SSRI antidepressants	9,558	18.4%	6,975	18.8%	-0.371	-0.010
Statins	28,019	54.0%	21,236	57.2%	-3.213	-0.065
Sulfonyureas	3,681	7.1%	2,917	7.9%	-0.764	-0.029



	Female Rivaroxaban Users		Femal	e Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.5	9.0	13.2	9.2	-0.656	-0.072
Mean number of emergency room encounters	0.4	0.8	0.5	0.9	-0.028	-0.033
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.009	-0.013
Mean number of generics	10.1	5.0	10.6	5.1	-0.443	-0.087

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



Table 1x. Baseline Characteristics of Female Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female R	ivaroxaban Users	Female	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	51,896	-	37,127	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	76.3	6.6	76.3	6.5	0.005	0.001
Age (Years)	Number	Percent	Number	Percent		
65-74	24,071	46.4%	16,926	45.6%	0.794	0.016
75-84	21,878	42.2%	16,135	43.5%	-1.301	-0.026
85+	5,947	11.5%	4,066	11.0%	0.507	0.016
Sex						
Female	51,896	100.0%	37,127	100.0%	0.000	-
Race						
American Indian or Alaska Native	147	0.3%	106	0.3%	-0.003	-0.001
Asian	672	1.3%	483	1.3%	-0.004	-0.000
Black or African American	2,298	4.4%	1,646	4.4%	-0.005	-0.000
Unknown	1,264	2.4%	903	2.4%	0.002	0.000
White	47,515	91.6%	33,989	91.5%	0.009	0.000
Ethnicity						
Hispanic Origin	645	1.2%	437	1.2%	0.067	0.006
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	61	0.1%	-	0.0%	0.117	-
2012	6,729	13.0%	-	0.0%	12.967	-
2013	15,075	29.0%	4,118	11.1%	17.955	0.460
2014	18,073	34.8%	14,792	39.8%	-5.016	-0.104
2015	11,959	23.0%	18,217	49.1%	-26.022	-0.563
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	4.4	1.4	4.5	1.5	-0.007	-0.005
	Number	Percent	Number	Percent		
0-1	-	0.0%	-	1.5	0.000	-
2	2,757	5.3%	1,971	5.3%	0.003	0.000
3	11,826	22.8%	8,458	22.8%	0.005	0.000
4	15,316	29.5%	10,956	29.5%	0.004	0.000



Table 1x. Baseline Characteristics of Female Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female R	ivaroxaban Users	Female	Apixaban Users	Covaria	ite Balance
5	10,123	19.5%	7,244	19.5%	-0.005	-0.000
>= 6	11,875	22.9%	8,498	22.9%	-0.006	-0.000
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.5	0.9	0.000	0.000
	Number	Percent	Number	Percent		
0-1	4,454	8.6%	3,183	8.6%	0.010	0.000
2	23,371	45.0%	16,722	45.0%	-0.005	-0.000
3	16,669	32.1%	11,923	32.1%	0.005	0.000
>= 4	7,402	14.3%	5,299	14.3%	-0.009	-0.000
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	703	1.4%	506	1.4%	-0.007	-0.001
Acute myocardial infarction (Past 31-183 days)	464	0.9%	332	0.9%	-0.001	-0.000
Cardioablation	916	1.8%	654	1.8%	0.003	0.000
Cardioversion	4,430	8.5%	3,169	8.5%	0.001	0.000
Coronary revascularization	5,019	9.7%	3,596	9.7%	-0.014	-0.000
Diabetes	16,163	31.1%	11,561	31.1%	0.005	0.000
Falls	3,136	6.0%	2,244	6.0%	-0.002	-0.000
Fractures	860	1.7%	615	1.7%	0.003	0.000
Heart failure (hospitalized)	7,367	14.2%	5,275	14.2%	-0.012	-0.000
Heart failure (outpatient)	12,110	23.3%	8,665	23.3%	-0.005	-0.000
Hypercholesterolemia	18,852	36.3%	13,493	36.3%	-0.017	-0.000
Hypertension	45,560	87.8%	32,597	87.8%	-0.009	-0.000
Kidney failure (acute)	2,707	5.2%	1,935	5.2%	0.004	0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	5,067	9.8%	3,626	9.8%	-0.003	-0.000
Nicotine dependency	9,717	18.7%	6,952	18.7%	-0.002	-0.000
Obesity	9,520	18.3%	6,814	18.4%	-0.009	-0.000
Other ischemic heart disease	19,331	37.2%	13,833	37.3%	-0.009	-0.000
Peptic ulcer disease	233	0.4%	166	0.4%	0.003	0.000
Prior hospitalized bleeding	393	0.8%	281	0.8%	-0.000	-0.000
Stroke (past 0-30 days)	960	1.9%	689	1.9%	-0.004	-0.000
Stroke (past 31-183 days)	813	1.6%	582	1.6%	-0.002	-0.000



Table 1x. Baseline Characteristics of Female Rivaroxaban and Apixaban Users (Inverse Probability of Treatment Weighted, Trimmed), Weight: Average Treatment Effect, Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Female Riva	roxaban Users	Female Ap	oixaban Users	Covaria	ate Balance
Syncope	5,202	10.0%	3,727	10.0%	-0.014	-0.000
Transient ischemic attack	3,651	7.0%	2,612	7.0%	-0.000	-0.000
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	30,287	58.4%	21,677	58.4%	-0.027	-0.001
Amiodarone	5,367	10.3%	3,838	10.3%	0.006	0.000
Anti-coagulant (injectable)	4,774	9.2%	3,423	9.2%	-0.020	-0.001
Antiarrhythmics	8,048	15.5%	5,761	15.5%	-0.008	-0.000
Antiplatelets	6,647	12.8%	4,753	12.8%	0.006	0.000
Beta blockers	38,509	74.2%	27,550	74.2%	-0.001	-0.000
Calcium channel blockers	24,269	46.8%	17,353	46.7%	0.023	0.000
Digoxin	5,817	11.2%	4,159	11.2%	0.006	0.000
Diuretics (loop)	13,612	26.2%	9,740	26.2%	-0.005	-0.000
Diuretics (potassium sparing)	4,776	9.2%	3,422	9.2%	-0.013	-0.000
Diuretics (thiazide)	16,757	32.3%	11,987	32.3%	0.001	0.000
Dronedarone	2,229	4.3%	1,596	4.3%	-0.004	-0.000
Estrogen	2,283	4.4%	1,637	4.4%	-0.011	-0.001
Fibrates	1,923	3.7%	1,375	3.7%	0.003	0.000
H2-antagonist	3,341	6.4%	2,391	6.4%	-0.003	-0.000
Insulin	3,307	6.4%	2,369	6.4%	-0.009	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Differen
Metformin	7,253	14.0%	5,191	14.0%	-0.005	-0.000
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,734	16.8%	6,258	16.9%	-0.027	-0.001
Nitrates	4,503	8.7%	3,224	8.7%	-0.007	-0.000
Other diabetes medications	2,794	5.4%	2,002	5.4%	-0.008	-0.000
Proton pump inhibitors	16,579	31.9%	11,856	31.9%	0.011	0.000
SSRI antidepressants	9,650	18.6%	6,906	18.6%	-0.006	-0.000
Statins	28,714	55.3%	20,550	55.4%	-0.021	-0.000
Sulfonyureas	3,841	7.4%	2,748	7.4%	0.000	0.000


	Female Rivaroxaban Users		Female	e Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	<b>Standard Deviation</b>	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.8	9.2	12.8	8.9	-0.002	-0.000
Mean number of emergency room encounters	0.4	0.8	0.4	0.8	-0.000	-0.000
Mean number of inpatient hospital encounters	0.5	0.7	0.5	0.7	-0.000	-0.000
Mean number of generics	10.3	5.1	10.3	5.0	-0.003	-0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



	Male Riv	varoxaban Users	Male	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	59,919	100.0%	40,104	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	74.7	6.1	75.2	6.2	-0.484	-0.079
Age (Years)	Number	Percent	Number	Percent		
65-74	33,676	56.2%	21,214	52.9%	3.305	0.066
75-84	22,375	37.3%	15,710	39.2%	-1.831	-0.038
85+	3,868	6.5%	3,180	7.9%	-1.474	-0.057
Sex						
Male	59,919	100.0%	40,104	100.0%	0.000	-
Race						
American Indian or Alaska Native	151	0.3%	81	0.2%	0.050	0.011
Asian	726	1.2%	387	1.0%	0.247	0.024
Black or African American	1,733	2.9%	1,209	3.0%	-0.122	-0.007
Unknown	2,067	3.4%	1,274	3.2%	0.273	0.015
White	55,242	92.2%	37,153	92.6%	-0.447	-0.017
Ethnicity						
Hispanic Origin	625	1.0%	301	0.8%	0.293	0.031
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	90	0.2%	-	0.0%	0.150	-
2012	7,222	12.1%	-	0.0%	12.053	-
2013	16,828	28.1%	4,637	11.6%	16.522	0.424
2014	21,155	35.3%	15,801	39.4%	-4.094	-0.085
2015	14,624	24.4%	19,666	49.0%	-24.631	-0.529
	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.3	1.4	3.4	1.5	-0.134	-0.093
	Number	Percent	Number	Percent		
0-1	3,843	6.4%	2,078	1.5	1.232	0.053
2	16,105	26.9%	9,804	24.4%	2.432	0.056
3	15,944	26.6%	10,689	26.7%	-0.044	-0.001
4	11,719	19.6%	8,115	20.2%	-0.677	-0.017



	Male Ri	varoxaban Users	Male	Apixaban Users	Covaria	ate Balance
5	7,733	12.9%	5,820	14.5%	-1.607	-0.047
>= 6	4,575	7.6%	3,598	9.0%	-1.336	-0.048
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.104	-0.112
	Number	Percent	Number	Percent		
0-1	6,238	10.4%	3,521	8.8%	1.631	0.055
2	27,239	45.5%	17,075	42.6%	2.883	0.058
3	18,599	31.0%	12,962	32.3%	-1.281	-0.028
>= 4	7,843	13.1%	6,546	16.3%	-3.233	-0.091
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	917	1.5%	659	1.6%	-0.113	-0.009
Acute myocardial infarction (Past 31-183 days)	482	0.8%	471	1.2%	-0.370	-0.037
Cardioablation	1,554	2.6%	1,123	2.8%	-0.207	-0.013
Cardioversion	6,149	10.3%	4,760	11.9%	-1.607	-0.051
Coronary revascularization	11,809	19.7%	8,876	22.1%	-2.424	-0.060
Diabetes	20,285	33.9%	14,332	35.7%	-1.883	-0.040
Falls	2,215	3.7%	1,509	3.8%	-0.066	-0.003
Fractures	607	1.0%	410	1.0%	-0.009	-0.001
Heart failure (hospitalized)	7,136	11.9%	5,249	13.1%	-1.179	-0.036
Heart failure (outpatient)	13,122	21.9%	9,778	24.4%	-2.482	-0.059
Hypercholesterolemia	23,450	39.1%	15,838	39.5%	-0.356	-0.007
Hypertension	50,951	85.0%	34,840	86.9%	-1.841	-0.053
Kidney failure (acute)	3,111	5.2%	2,989	7.5%	-2.261	-0.093
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	5,727	9.6%	5,999	15.0%	-5.401	-0.165
Nicotine dependency	15,121	25.2%	10,991	27.4%	-2.171	-0.049
Obesity	9,329	15.6%	6,951	17.3%	-1.763	-0.048
Other ischemic heart disease	30,551	51.0%	22,101	55.1%	-4.122	-0.083
Peptic ulcer disease	217	0.4%	152	0.4%	-0.017	-0.003
Prior hospitalized bleeding	363	0.6%	269	0.7%	-0.065	-0.008
Stroke (past 0-30 days)	905	1.5%	671	1.7%	-0.163	-0.013
Stroke (past 31-183 days)	606	1.0%	531	1.3%	-0.313	-0.029



	Male Rivar	oxaban Users	Male Api	xaban Users	Covaria	ate Balance
Syncope	4,990	8.3%	3,491	8.7%	-0.377	-0.014
Transient ischemic attack	3,276	5.5%	2,402	6.0%	-0.522	-0.022
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	36,425	60.8%	25,235	62.9%	-2.133	-0.044
Amiodarone	6,570	11.0%	4,850	12.1%	-1.129	-0.035
Anti-coagulant (injectable)	5,397	9.0%	3,993	10.0%	-0.949	-0.032
Antiarrhythmics	7,289	12.2%	5,095	12.7%	-0.540	-0.016
Antiplatelets	9,911	16.5%	7,554	18.8%	-2.295	-0.060
Beta blockers	41,743	69.7%	29,116	72.6%	-2.936	-0.065
Calcium channel blockers	23,414	39.1%	15,655	39.0%	0.040	0.001
Digoxin	5,896	9.8%	3,460	8.6%	1.212	0.042
Diuretics (loop)	12,926	21.6%	9,824	24.5%	-2.924	-0.069
Diuretics (potassium sparing)	4,230	7.1%	3,092	7.7%	-0.650	-0.025
Diuretics (thiazide)	15,236	25.4%	10,304	25.7%	-0.266	-0.006
Dronedarone	2,256	3.8%	1,512	3.8%	-0.005	-0.000
Estrogen	****	0.0%	****	0.0%	-0.002	-0.002
Fibrates	2,950	4.9%	2,142	5.3%	-0.418	-0.019
H2-antagonist	2,670	4.5%	1,985	4.9%	-0.494	-0.023
Insulin	3,789	6.3%	3,097	7.7%	-1.399	-0.055
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	10,285	17.2%	7,107	17.7%	-0.557	-0.015
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,306	13.9%	5,334	13.3%	0.562	0.016
Nitrates	5,806	9.7%	4,477	11.2%	-1.474	-0.048
Other diabetes medications	3,890	6.5%	2,895	7.2%	-0.727	-0.029
Proton pump inhibitors	15,176	25.3%	10,997	27.4%	-2.094	-0.048
SSRI antidepressants	5,595	9.3%	3,921	9.8%	-0.439	-0.015
Statins	37,672	62.9%	26,696	66.6%	-3.695	-0.077
Sulfonyureas	5,654	9.4%	3,938	9.8%	-0.383	-0.013



	Male R	Male Rivaroxaban Users		Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
Mean number of ambulatory encounters	12.0	9.2	12.8	9.4	-0.842	-0.091
Mean number of emergency room encounters	0.3	0.8	0.4	0.8	-0.013	-0.016
Mean number of inpatient hospital encounters	0.4	0.7	0.5	0.7	-0.003	-0.004
Mean number of generics	9.2	4.6	9.6	4.7	-0.429	-0.092

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

\*\*\*\*\*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.



	Male Ri	varoxaban Users	Male	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	59,914	100.0%	40,104	100.0%	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	74.7	6.1	75.2	6.2	-0.484	-0.079
Age (Years)	Number	Percent	Number	Percent		
65-74	33,672	56.2%	21,214	52.9%	3.303	0.066
75-84	22,374	37.3%	15,710	39.2%	-1.830	-0.038
85+	3,868	6.5%	3,180	7.9%	-1.473	-0.057
Sex						
Male	59,914	100.0%	40,104	100.0%	0.000	-
Race						
American Indian or Alaska Native	150	0.3%	81	0.2%	0.048	0.010
Asian	726	1.2%	387	1.0%	0.247	0.024
Black or African American	1,733	2.9%	1,209	3.0%	-0.122	-0.007
Unknown	2,067	3.4%	1,274	3.2%	0.273	0.015
White	55,238	92.2%	37,153	92.6%	-0.446	-0.017
Ethnicity						
Hispanic Origin	625	1.0%	301	0.8%	0.293	0.031
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	90	0.2%	-	0.0%	0.150	-
2012	7,221	12.1%	-	0.0%	12.052	-
2013	16,828	28.1%	4,637	11.6%	16.524	0.424
2014	21,153	35.3%	15,801	39.4%	-4.094	-0.085
2015	14,622	24.4%	19,666	49.0%	-24.633	-0.529
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.3	1.4	3.4	1.5	-0.135	-0.093
	Number	Percent	Number	Percent		
0-1	3,843	6.4%	2,078	1.5	1.233	0.053
2	16,105	26.9%	9,804	24.4%	2.434	0.056
3	15,944	26.6%	10,689	26.7%	-0.042	-0.001
4	11,717	19.6%	8,115	20.2%	-0.679	-0.017



	Male Ri	varoxaban Users	Male	Apixaban Users	Covaria	ite Balance
5	7,731	12.9%	5,820	14.5%	-1.609	-0.047
>= 6	4,574	7.6%	3,598	9.0%	-1.337	-0.048
	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
HAS-BLED	2.5	0.9	2.6	0.9	-0.104	-0.112
	Number	Percent	Number	Percent		
0-1	6,238	10.4%	3,521	8.8%	1.632	0.055
2	27,238	45.5%	17,075	42.6%	2.885	0.058
3	18,599	31.0%	12,962	32.3%	-1.278	-0.027
>= 4	7,839	13.1%	6,546	16.3%	-3.239	-0.092
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	917	1.5%	659	1.6%	-0.113	-0.009
Acute myocardial infarction (Past 31-183 days)	482	0.8%	471	1.2%	-0.370	-0.037
Cardioablation	1,554	2.6%	1,123	2.8%	-0.207	-0.013
Cardioversion	6,149	10.3%	4,760	11.9%	-1.606	-0.051
Coronary revascularization	11,806	19.7%	8,876	22.1%	-2.428	-0.060
Diabetes	20,282	33.9%	14,332	35.7%	-1.885	-0.040
Falls	2,212	3.7%	1,509	3.8%	-0.071	-0.004
Fractures	606	1.0%	410	1.0%	-0.011	-0.001
Heart failure (hospitalized)	7,133	11.9%	5,249	13.1%	-1.183	-0.036
Heart failure (outpatient)	13,119	21.9%	9,778	24.4%	-2.485	-0.059
Hypercholesterolemia	23,449	39.1%	15,838	39.5%	-0.355	-0.007
Hypertension	50,946	85.0%	34,840	86.9%	-1.842	-0.053
Kidney failure (acute)	3,109	5.2%	2,989	7.5%	-2.264	-0.093
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	5,726	9.6%	5,999	15.0%	-5.402	-0.165
Nicotine dependency	15,116	25.2%	10,991	27.4%	-2.177	-0.049
Obesity	9,325	15.6%	6,951	17.3%	-1.768	-0.048
Other ischemic heart disease	30,546	51.0%	22,101	55.1%	-4.126	-0.083
Peptic ulcer disease	216	0.4%	152	0.4%	-0.018	-0.003
Prior hospitalized bleeding	363	0.6%	269	0.7%	-0.065	-0.008
Stroke (past 0-30 days)	905	1.5%	671	1.7%	-0.163	-0.013
Stroke (past 31-183 days)	606	1.0%	531	1.3%	-0.313	-0.029



	Male Rivar	oxaban Users	Male Api	xaban Users	Covaria	ate Balance
Syncope	4,988	8.3%	3,491	8.7%	-0.380	-0.014
Transient ischemic attack	3,276	5.5%	2,402	6.0%	-0.522	-0.022
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	36,423	60.8%	25,235	62.9%	-2.132	-0.044
Amiodarone	6,569	11.0%	4,850	12.1%	-1.130	-0.035
Anti-coagulant (injectable)	5,394	9.0%	3,993	10.0%	-0.954	-0.033
Antiarrhythmics	7,289	12.2%	5,095	12.7%	-0.539	-0.016
Antiplatelets	9,910	16.5%	7,554	18.8%	-2.296	-0.060
Beta blockers	41,739	69.7%	29,116	72.6%	-2.936	-0.065
Calcium channel blockers	23,410	39.1%	15,655	39.0%	0.037	0.001
Digoxin	5,893	9.8%	3,460	8.6%	1.208	0.042
Diuretics (loop)	12,924	21.6%	9,824	24.5%	-2.925	-0.070
Diuretics (potassium sparing)	4,230	7.1%	3,092	7.7%	-0.650	-0.025
Diuretics (thiazide)	15,236	25.4%	10,304	25.7%	-0.263	-0.006
Dronedarone	2,256	3.8%	1,512	3.8%	-0.005	-0.000
Estrogen	****	0.0%	****	0.0%	-0.002	-0.002
Fibrates	2,950	4.9%	2,142	5.3%	-0.417	-0.019
H2-antagonist	2,670	4.5%	1,985	4.9%	-0.493	-0.023
Insulin	3,788	6.3%	3,097	7.7%	-1.400	-0.055
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	10,284	17.2%	7,107	17.7%	-0.557	-0.015
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,306	13.9%	5,334	13.3%	0.563	0.016
Nitrates	5,804	9.7%	4,477	11.2%	-1.476	-0.048
Other diabetes medications	3,890	6.5%	2,895	7.2%	-0.726	-0.029
Proton pump inhibitors	15,173	25.3%	10,997	27.4%	-2.097	-0.048
SSRI antidepressants	5,592	9.3%	3,921	9.8%	-0.444	-0.015
Statins	37,669	62.9%	26,696	66.6%	-3.695	-0.077
Sulfonyureas	5,652	9.4%	3,938	9.8%	-0.386	-0.013



	Male Rivaroxaban Users		Male	Apixaban Users	Covariate Balance	
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	Standard Deviation		
Mean number of ambulatory encounters	12.0	9.2	12.8	9.4	-0.844	-0.091
Mean number of emergency room encounters	0.3	0.8	0.4	0.8	-0.013	-0.017
Mean number of inpatient hospital encounters	0.4	0.7	0.5	0.7	-0.004	-0.005
Mean number of generics	9.2	4.6	9.6	4.7	-0.430	-0.092

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

\*\*\*\*\*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.



	Male Riv	/aroxaban Users	Male	Apixaban Users	Covaria	ate Balance
Characteristic <sup>1, 2, 3</sup>	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Patients	59,916	-	40,106	-	-	-
Demographics	Mean	<b>Standard Deviation</b>	Mean	<b>Standard Deviation</b>		
Mean Age (Years)	74.9	6.1	74.9	6.1	0.003	0.001
Age (Years)	Number	Percent	Number	Percent		
65-74	32,870	54.9%	22,009	54.9%	-0.018	-0.000
75-84	22,922	38.3%	15,192	37.9%	0.378	0.008
85+	4,125	6.9%	2,905	7.2%	-0.360	-0.014
Sex						
Male	59,916	100.0%	40,106	100.0%	0.000	-
Race						
American Indian or Alaska Native	139	0.2%	94	0.2%	-0.003	-0.001
Asian	667	1.1%	449	1.1%	-0.005	-0.000
Black or African American	1,763	2.9%	1,182	2.9%	-0.006	-0.000
Unknown	2,006	3.3%	1,346	3.4%	-0.007	-0.000
White	55,341	92.4%	37,036	92.3%	0.021	0.001
Ethnicity	624	1.0%	301	0.8%	0.291	0.031
Hispanic Origin						
Year						
2010	-	0.0%	-	0.0%	0.000	-
2011	89	0.1%	-	0.0%	0.149	-
2012	7,175	12.0%	-	0.0%	11.975	-
2013	16,772	28.0%	4,673	11.7%	16.343	0.419
2014	21,183	35.4%	15,817	39.4%	-4.082	-0.084
2015	14,696	24.5%	19,617	48.9%	-24.385	-0.523
	Mean	Standard Deviation	Mean	Standard Deviation	Absolute Difference	Standardized Difference
CHA <sub>2</sub> DS <sub>s</sub> VaSc	3.4	1.4	3.4	1.4	0.001	0.001
	Number	Percent	Number	Percent		
0-1	3,551	5.9%	2,382	1.5	-0.013	-0.001
2	15,525	25.9%	10,396	25.9%	-0.010	-0.000
3	15,941	26.6%	10,662	26.6%	0.021	0.000
4	11,883	19.8%	7,954	19.8%	-0.000	-0.000



	Male Ri	varoxaban Users	Male	Apixaban Users	Covaria	ite Balance
5	8,117	13.5%	5,431	13.5%	0.007	0.000
>= 6	4,899	8.2%	3,281	8.2%	-0.004	-0.000
	Mean	Standard Deviation	Mean	Standard Deviation		
HAS-BLED	2.5	0.9	2.5	0.9	0.002	0.002
	Number	Percent	Number	Percent		
0-1	5,851	9.8%	3,922	9.8%	-0.015	-0.000
2	26,538	44.3%	17,758	44.3%	0.016	0.000
3	18,909	31.6%	12,661	31.6%	-0.010	-0.000
>= 4	8,618	14.4%	5,765	14.4%	0.009	0.000
Baseline Medical Conditions -183 to -1 days:						
Acute myocardial infarction (Past 0-30 days)	940	1.6%	628	1.6%	0.004	0.000
Acute myocardial infarction (Past 31-183 days)	574	1.0%	384	1.0%	-0.000	-0.000
Cardioablation	1,605	2.7%	1,075	2.7%	-0.000	-0.000
Cardioversion	6,541	10.9%	4,376	10.9%	0.005	0.000
Coronary revascularization	12,402	20.7%	8,306	20.7%	-0.011	-0.000
Diabetes	20,730	34.6%	13,876	34.6%	0.001	0.000
Falls	2,230	3.7%	1,494	3.7%	-0.005	-0.000
Fractures	606	1.0%	404	1.0%	0.004	0.000
Heart failure (hospitalized)	7,403	12.4%	4,956	12.4%	-0.003	-0.000
Heart failure (outpatient)	13,706	22.9%	9,173	22.9%	0.005	0.000
Hypercholesterolemia	23,546	39.3%	15,769	39.3%	-0.020	-0.000
Hypertension	51,384	85.8%	34,388	85.7%	0.018	0.001
Kidney failure (acute)	3,662	6.1%	2,454	6.1%	-0.007	-0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Kidney failure (chronic)	7,029	11.7%	4,701	11.7%	0.011	0.000
Nicotine dependency	15,649	26.1%	10,482	26.1%	-0.018	-0.000
Obesity	9,764	16.3%	6,539	16.3%	-0.007	-0.000
Other ischemic heart disease	31,535	52.6%	21,104	52.6%	0.011	0.000
Peptic ulcer disease	225	0.4%	152	0.4%	-0.005	-0.001
Prior hospitalized bleeding	384	0.6%	259	0.6%	-0.005	-0.001
Stroke (past 0-30 days)	948	1.6%	636	1.6%	-0.003	-0.000
Stroke (past 31-183 days)	686	1.1%	459	1.1%	0.002	0.000



	Male Rivar	oxaban Users	Male Api	ixaban Users	Covaria	ate Balance
Syncope	5,087	8.5%	3,405	8.5%	0.000	0.000
Transient ischemic attack	3,407	5.7%	2,281	5.7%	-0.001	-0.000
Walker use	-	0.0%	-	0.0%	0.000	-
Baseline Use (-183 to -1 days)						
ACEI/ARB	36,951	61.7%	24,737	61.7%	-0.008	-0.000
Amiodarone	6,827	11.4%	4,568	11.4%	0.006	0.000
Anti-coagulant (injectable)	5,635	9.4%	3,780	9.4%	-0.020	-0.001
Antiarrhythmics	7,446	12.4%	4,991	12.4%	-0.017	-0.001
Antiplatelets	10,474	17.5%	7,012	17.5%	-0.002	-0.000
Beta blockers	42,438	70.8%	28,407	70.8%	0.001	0.000
Calcium channel blockers	23,378	39.0%	15,633	39.0%	0.039	0.001
Digoxin	5,608	9.4%	3,765	9.4%	-0.027	-0.001
Diuretics (loop)	13,618	22.7%	9,111	22.7%	0.010	0.000
Diuretics (potassium sparing)	4,378	7.3%	2,931	7.3%	-0.000	-0.000
Diuretics (thiazide)	15,305	25.5%	10,244	25.5%	0.002	0.000
Dronedarone	2,259	3.8%	1,512	3.8%	-0.001	-0.000
Estrogen	****	0.0%	****	0.0%	-0.000	-0.000
Fibrates	3,051	5.1%	2,041	5.1%	0.002	0.000
H2-antagonist	2,792	4.7%	1,871	4.7%	-0.006	-0.000
Insulin	4,118	6.9%	2,755	6.9%	0.004	0.000
	Number	Percent	Number	Percent	Absolute Difference	Standardized Difference
Metformin	10,431	17.4%	6,986	17.4%	-0.009	-0.000
Nonsteroidal Anti-Inflammatory Drug (NSAIDs)	8,179	13.7%	5,478	13.7%	-0.009	-0.000
Nitrates	6,162	10.3%	4,124	10.3%	0.002	0.000
Other diabetes medications	4,065	6.8%	2,721	6.8%	0.001	0.000
Proton pump inhibitors	15,696	26.2%	10,514	26.2%	-0.018	-0.000
SSRI antidepressants	5,709	9.5%	3,825	9.5%	-0.008	-0.000
Statins	38,549	64.3%	25,804	64.3%	0.001	0.000
Sulfonyureas	5,740	9.6%	3,836	9.6%	0.015	0.001



	Male R	ivaroxaban Users	Male	Apixaban Users	Covaria	te Balance
Health Service Utilization Intensity:	Mean	Standard Deviation	Mean	<b>Standard Deviation</b>		
Mean number of ambulatory encounters	12.4	9.5	12.4	9.0	-0.013	-0.001
Mean number of emergency room encounters	0.3	0.8	0.3	0.8	-0.001	-0.002
Mean number of inpatient hospital encounters	0.4	0.7	0.5	0.7	-0.001	-0.002
Mean number of generics	9.4	4.7	9.4	4.6	-0.004	-0.001

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

<sup>2</sup>Covariates in blue show a standardized difference greater than 0.1

<sup>3</sup>Characteristics in italics were not included in the propensity score logistic regression model.



 Table 2. Risk of Thromboembolic Stroke in Rivaroxaban Users Compared to Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	110,113	37,140.10	123.2	0.34	292	7.86	2.65	-1.29	-0.25	0.87 (0.74, 1.03)	0.116
Dabigatran Users	84,473	26,783.01	115.81	0.32	245	9.15	2.9	1.25	0.25	0.87 (0.74, 1.03)	0.110
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	110,112	37,140.01	123.2	0.34	292	7.86	2.65	-1.29	-0.25		
Dabigatran Users	84,471	26,782.83	115.81	0.32	245	9.15	2.9	1.25	0.25		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	110,111	37,119.03	123.13	0.34	295	7.95	2.68	-1.06	-0.18	0.90 (0.76, 1.06)	
Dabigatran Users	84,481	26,791.17	115.83	0.32	241	9.01	2.86	1.00	0.10	0.50 (0.70, 1.00)	

<sup>1</sup>All values in this section are weighted



Table 3. Risk of Thromboembolic Stroke in Female Rivaroxaban Users Compared to Female Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,156	17,634.60	125.91	0.34	161	9.13	3.15	-1.2	-0.16	0.91 (0.72, 1.14)	0.397
Female Dabigatran Users	40,824	13,074.70	116.98	0.32	135	10.33	3.31	1.2	0.10	0.91 (0.72, 1.14)	0.337
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,155	17,634.33	125.91	0.34	161	9.13	3.15	-1.2	-0.16		
Female Dabigatran Users	40,822	13,074.56	116.98	0.32	135	10.33	3.31	1.2	0.10		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,156	17,584.64	125.55	0.34	164	9.3	3.2	-0.62	0.02	0.96 (0.76, 1.21)	_
Female Dabigatran Users	40,827	13,095.05	117.15	0.32	130	9.92	3.18	0.02	0.02	0.50 (0.70, 1.21)	

<sup>1</sup>All values in this section are weighted



Table 4. Risk of Thromboembolic Stroke in Male Rivaroxaban Users Compared to Male Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Rivaroxaban Users	58,957	19,505.50	120.84	0.33	131	6.72	2.22	-1.31	-0.3	0.84 (0.65, 1.08)	0.183
Male Dabigatran Users	43,649	13,708.31	114.71	0.31	110	8.02	2.52	1.51	0.5	0.04 (0.05, 1.08)	0.105
Inverse Probability of Treatm	ent Weighted	l Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	58,956	19,505.42	120.84	0.33	131	6.72	2.22	-1.31	-0.3		
Male Dabigatran Users	43,648	13,708.22	114.71	0.31	110	8.02	2.52	1.51	0.5		
Inverse Probability of Treatm	ent Weighted	Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	58,956	19,517.87	120.92	0.33	131	6.72	2.23	-1.44	-0.34	0.83 (0.64, 1.07)	_
Male Dabigatran Users	43,651	13,702.48	114.65	0.31	112	8.16	2.56	1.44	0.54	0.03 (0.04, 1.07)	

<sup>1</sup>All values in this section are weighted



Table 5. Risk of Major Extracranial Bleeding in Rivaroxaban Users Compared to Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of	Person Years	•	Average Person Years	Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	110,113	37,140.10	123.2	0.34	1,681	45.26	15.27	4.97	2.49	1.14 (1.05, 1.23)	0.001
Dabigatran Users	84,473	26,783.01	115.81	0.32	1,079	40.29	12.77	4.57	2.45	1.14 (1.05, 1.25)	0.001
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	110,112	37,140.01	123.2	0.34	1,681	45.26	15.27	4.97	2.49		
Dabigatran Users	84,471	26,782.83	115.81	0.32	1,079	40.29	12.77	4.57	2.45		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	110,111	37,119.03	123.13	0.34	1,712	46.12	15.55	7.35	3.25	1.20 (1.11, 1.30)	
Dabigatran Users	84,481	26,791.17	115.83	0.32	1,039	38.77	12.29	,	5.25	1.20 (1.11, 1.50)	

<sup>1</sup>All values in this section are weighted



Table 6. Risk of Major Extracranial Bleeding in Female Rivaroxaban Users Compared to Female Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of	Person Years			Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,156	17,634.60	125.91	0.34	921	52.23	18	4.58	2.74	1.11 (1.00, 1.23)	0.051
Female Dabigatran Users	40,824	13,074.70	116.98	0.32	623	47.65	15.26	4.50	2.74	1.11 (1.00, 1.23)	0.051
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,155	17,634.33	125.91	0.34	921	52.23	18	4.65	2.77		
Female Dabigatran Users	40,822	13,074.56	116.98	0.32	622	47.57	15.24	4.05	2.77		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,156	17,584.64	125.55	0.34	951	54.09	18.59	8.86	4.08	1.21 (1.09, 1.34)	-
Female Dabigatran Users	40,827	13,095.05	117.15	0.32	592	45.23	14.51	0.00	4.00	1.21 (1.05, 1.54)	

<sup>1</sup>All values in this section are weighted



Table 7. Risk of Major Extracranial Bleeding in Male Rivaroxaban Users Compared to Male Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Rivaroxaban Users	58,957	19,505.50	120.84	0.33	760	38.96	12.89	5.7	2.44	1.19 (1.06, 1.33)	0.004
Male Dabigatran Users	43,649	13,708.31	114.71	0.31	456	33.26	10.45	5.7	2.44	1.15 (1.00, 1.55)	0.004
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	58,956	19,505.42	120.84	0.33	760	38.96	12.89	5.7	2.44		
Male Dabigatran Users	43,648	13,708.22	114.71	0.31	456	33.26	10.45	5.7	2.44		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	58,956	19,517.87	120.92	0.33	759	38.86	12.87	5.99	2.55	1.20 (1.07, 1.35)	
Male Dabigatran Users	43,651	13,702.48	114.65	0.31	450	32.87	10.32	3.55	2.55	1.20 (1.07, 1.33)	

<sup>1</sup>All values in this section are weighted



Table 8. Risk of Gastrointestinal Hemorrhage in Rivaroxaban Users Compared to Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	ghted										
Rivaroxaban Users	110,113	37,140.10	123.2	0.34	1,505	40.52	13.67	3.11	1.81	1.09 (1.01, 1.19)	0.027
Dabigatran Users	84,473	26,783.01	115.81	0.32	1,002	37.41	11.86	5.11	1.01	1.05 (1.01, 1.15)	0.027
Inverse Probability of Treatm	nent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	110,112	37,140.01	123.2	0.34	1,505	40.52	13.67	3.11	1.81		
Dabigatran Users	84,471	26,782.83	115.81	0.32	1,002	37.41	11.86	5.11	1.01		
Inverse Probability of Treatm	nent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	110,111	37,119.03	123.13	0.34	1,531	41.25	13.91	5.22	2.48	1.16 (1.07, 1.25)	_
Dabigatran Users	84,481	26,791.17	115.83	0.32	965	36.04	11.43	5.22	2.40	1.10 (1.07, 1.23)	

<sup>1</sup>All values in this section are weighted



Table 9. Risk of Gastrointestinal Hemorrhage in Female Rivaroxaban Users Compared to Female Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,156	17,634.60	125.91	0.34	823	46.67	16.09	2.92	2.08	1.08 (0.97, 1.20)	0.18
Female Dabigatran Users	40,824	13,074.70	116.98	0.32	572	43.75	14.01	2.52	2.00	1.00 (0.97, 1.20)	0.10
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,155	17,634.33	125.91	0.34	823	46.67	16.09	3	2.1		
Female Dabigatran Users	40,822	13,074.56	116.98	0.32	571	43.67	13.99	5	2.1		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,156	17,584.64	125.55	0.34	849	48.28	16.6	6.75	3.28	1.17 (1.05, 1.30)	-
Female Dabigatran Users	40,827	13,095.05	117.15	0.32	544	41.53	13.32	0.75	5.20	1.17 (1.00, 1.00)	

<sup>1</sup>All values in this section are weighted



Table 10. Risk of Gastrointestinal Hemorrhage in Male Rivaroxaban Users Compared to Male Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of			Average Person Years	Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	ghted										
Male Rivaroxaban Users	58,957	19,505.50	120.84	0.33	682	34.96	11.57	3.6	1.72	1.13 (1.00, 1.28)	0.048
Male Dabigatran Users	43,649	13,708.31	114.71	0.31	430	31.37	9.85	5.0	1.72	1.15 (1.00, 1.20)	0.040
Inverse Probability of Treatm	nent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	58,956	19,505.42	120.84	0.33	682	34.96	11.57	3.6	1.72		
Male Dabigatran Users	43,648	13,708.22	114.71	0.31	430	31.37	9.85	5.0	1.72		
Inverse Probability of Treatm	nent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	58,956	19,517.87	120.92	0.33	680	34.84	11.53	3.82	1.8	1.14 (1.01, 1.29)	
Male Dabigatran Users	43,651	13,702.48	114.65	0.31	425	31.02	9.74	5.62	1.0	1.14 (1.01, 1.23)	

<sup>1</sup>All values in this section are weighted



Table 11. Risk of Intracranial Hemorrhage in Rivaroxaban Users Compared to Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

Madical Duaduct	Number of	Person Years	•	Average Person Years	Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	110,113	37,140.10	123.2	0.34	193	5.2	1.75	1.72	0.65	1.51 (1.18, 1.94)	0.001
Dabigatran Users	84,473	26,783.01	115.81	0.32	93	3.47	1.1	1.72	0.05	1.51 (1.10, 1.54)	0.001
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	110,112	37,140.01	123.2	0.34	193	5.2	1.75	1.72	0.65		
Dabigatran Users	84,471	26,782.83	115.81	0.32	93	3.47	1.1	1.72	0.05		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	110,111	37,119.03	123.13	0.34	197	5.29	1.78	1.92	0.71	1.58 (1.23, 2.03)	
Dabigatran Users	84,481	26,791.17	115.83	0.32	90	3.37	1.07	1.52	0.71	1.56 (1.25, 2.05)	

<sup>1</sup>All values in this section are weighted



Table 12. Risk of Gastrointestinal Hemorrhage in Female Rivaroxaban Users Compared to Female Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,156	17,634.60	125.91	0.34	84	4.76	1.64	1.32	0.54	1.42 (0.98, 2.04)	0.062
Female Dabigatran Users	40,824	13,074.70	116.98	0.32	45	3.44	1.1	1.52	0.54	1.42 (0.90, 2.04)	0.002
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,155	17,634.33	125.91	0.34	84	4.76	1.64	1.32	0.54		
Female Dabigatran Users	40,822	13,074.56	116.98	0.32	45	3.44	1.1	1.52	0.54		
Inverse Probability of Treatm	ent Weighted	d Analysis; Weig	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,156	17,584.64	125.55	0.34	86	4.91	1.69	1.66	0.65	1.55 (1.07, 2.23)	_
Female Dabigatran Users	40,827	13,095.05	117.15	0.32	43	3.25	1.04	1.00	0.05	1.55 (1.57, 2.25)	

<sup>1</sup>All values in this section are weighted



Table 13. Risk of Gastrointestinal Hemorrhage in Male Rivaroxaban Users Compared to Male Dabigatran Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Rivaroxaban Users	58,957	19,505.50	120.84	0.33	109	5.59	1.85	2.09	0.75	1.59 (1.13, 2.24)	0.007
Male Dabigatran Users	43,649	13,708.31	114.71	0.31	48	3.5	1.1	2.05	0.75	1.59 (1.15, 2.24)	0.007
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	58,956	19,505.42	120.84	0.33	109	5.59	1.85	2.09	0.75		
Male Dabigatran Users	43,648	13,708.22	114.71	0.31	48	3.5	1.1	2.05	0.75		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	58,956	19,517.87	120.92	0.33	110	5.65	1.87	2.18	0.78	1.62 (1.16, 2.28)	
Male Dabigatran Users	43,651	13,702.48	114.65	0.31	48	3.47	1.09		0.70	5 1.02 (1.10, 2.28	

<sup>1</sup>All values in this section are weighted



Table 14. Risk of Thromboembolic Stroke in Dabigatran Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Dabigatran Users	84,563	26,801.82	115.76	0.32	246	9.18	2.91	0.1	0.44	1.11 (0.91, 1.34)	0.296
Apixaban Users	76,887	20,933.60	99.44	0.27	190	9.08	2.47	0.1	0.44	1.11 (0.91, 1.94)	0.250
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Dabigatran Users	84,561	26,801.69	115.77	0.32	246	9.18	2.91	0.1	0.44		
Apixaban Users	76,886	20,933.57	99.45	0.27	190	9.08	2.47	0.1	0.44		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Dabigatran Users	84,600	26,686.01	115.21	0.32	249	9.31	2.94	0.34	0.48	1.13 (0.93, 1.37)	_
Apixaban Users	76,863	21,048.50	100.02	0.27	189	8.97	2.46		0.48 1.1	1.13 (0.93, 1.37)	

<sup>1</sup>All values in this section are weighted



Table 15. Risk of Thromboembolic Stroke in Female Dabigatran Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Dabigatran Users	40,870	13,084.35	116.93	0.32	136	10.39	3.33	0.2	0.55	1.12 (0.86, 1.45)	0.393
Female Apixaban Users	37,025	10,105.65	99.69	0.27	103	10.19	2.78	0.2	0.55	1.12 (0.00, 1.43)	0.555
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Dabigatran Users	40,853	13,081.88	116.96	0.32	136	10.4	3.33	0.2	0.55		
Female Apixaban Users	37,024	10,105.62	99.69	0.27	103	10.19	2.78	0.2	0.55		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Dabigatran Users	40,884	13,023.42	116.35	0.32	133	10.18	3.24	-0.18	0.4	1.07 (0.82, 1.39)	_
Female Apixaban Users	37,009	10,146.87	100.14	0.27	105	10.36	2.84		0.4	1.07 (0.82, 1.39)	

<sup>1</sup>All values in this section are weighted



Table 16. Risk of Thromboembolic Stroke in Male Dabigatran Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	110	8.02	2.52	-0.02	0.34	1.09 (0.82, 1.45)	0.543
Male Apixaban Users	39,862	10,827.95	99.22	0.27	87	8.03	2.18	-0.02	0.34	1.09 (0.82, 1.43)	0.545
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	110	8.02	2.52	-0.02	0.34		
Male Apixaban Users	39,862	10,827.95	99.22	0.27	87	8.03	2.18	-0.02	0.34		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Dabigatran Users	43,710	13,667.17	114.21	0.31	115	8.43	2.64	0.51	0.47	1.16 (0.87, 1.55)	
Male Apixaban Users	39,854	10,887.90	99.78	0.27	86	7.92	2.16	0.51	0.47	1.16 (0.87, 1.55	o) -

<sup>1</sup>All values in this section are weighted



Table 17. Risk of Major Extracranial Bleeding in Dabigatran Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Dabigatran Users	84,563	26,801.82	115.76	0.32	1,079	40.26	12.76	16.47	6.28	1.84 (1.65, 2.05)	<0.001
Apixaban Users	76,887	20,933.60	99.44	0.27	498	23.79	6.48	10.47	0.28	1.84 (1.05, 2.05)	<0.001
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Dabigatran Users	84,561	26,801.69	115.77	0.32	1,079	40.26	12.76	16.47	6.28		
Apixaban Users	76,886	20,933.57	99.45	0.27	498	23.79	6.48	10.47	0.28		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Dabigatran Users	84,600	26,686.01	115.21	0.32	1,102	41.29	13.03	18.15	6.69	1.93 (1.73, 2.15)	_
Apixaban Users	76,863	21,048.50	100.02	0.27	487	23.15	6.34	10.15	0.05	1.55 (1.75, 2.15)	

<sup>1</sup>All values in this section are weighted



Table 18. Risk of Major Extracranial Bleeding in Female Dabigatran Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Dabigatran Users	40,870	13,084.35	116.93	0.32	623	47.61	15.24	19.81	7.65	1.89 (1.64, 2.18)	<0.001
Female Apixaban Users	37,025	10,105.65	99.69	0.27	281	27.81	7.59	19.81	7.05	1.05 (1.04, 2.10)	<b>NO.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Dabigatran Users	40,853	13,081.88	116.96	0.32	623	47.62	15.25	19.82	7.66		
Female Apixaban Users	37,024	10,105.62	99.69	0.27	281	27.81	7.59	19.82	7.00		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Dabigatran Users	40,884	13,023.42	116.35	0.32	623	47.81	15.23	20.23	7.67	1.91 (1.65, 2.21)	
Female Apixaban Users	37,009	10,146.87	100.14	0.27	280	27.57	7.56	20.25	,,	1.91 (1.65, 2.21	

<sup>1</sup>All values in this section are weighted



Table 19. Risk of Major Extracranial Bleeding in Male Dabigatran Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of	Person Years			Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	456	33.24	10.44	13.2	4.99	1.77 (1.51, 2.09)	<0.001
Male Apixaban Users	39,862	10,827.95	99.22	0.27	217	20.04	5.44	13.2	4.55	1.77 (1.51, 2.05)	<b>\0.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	456	33.24	10.44	13.2	4.99		
Male Apixaban Users	39,862	10,827.95	99.22	0.27	217	20.04	5.44	13.2	4.55		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Dabigatran Users	43,710	13,667.17	114.21	0.31	480	35.12	10.98	15.92	5.74	1.94 (1.64, 2.29)	
Male Apixaban Users	39,854	10,887.90	99.78	0.27	209	19.19	5.24		5.74	1.54 (1.04, 2.25)	-

<sup>1</sup>All values in this section are weighted



Table 20. Risk of Gastrointestinal Hemorrhage in Dabigatran Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Dabigatran Users	84,563	26,801.82	115.76	0.32	1,002	37.39	11.85	16.18	6.07	1.91 (1.71, 2.14)	<0.001
Apixaban Users	76,887	20,933.60	99.44	0.27	444	21.21	5.77	10.10	0.07	1.91 (1.71, 2.14)	<b>\0.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Dabigatran Users	84,561	26,801.69	115.77	0.32	1,002	37.39	11.85	16.18	6.07		
Apixaban Users	76,886	20,933.57	99.45	0.27	444	21.21	5.77	10.10	0.07		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Dabigatran Users	84,600	26,686.01	115.21	0.32	1,024	38.39	12.11	17.8	6.47	2.01 (1.79, 2.26)	_
Apixaban Users	76,863	21,048.50	100.02	0.27	433	20.59	5.64	17.0	0.47	2.01 (1.75, 2.20)	

<sup>1</sup>All values in this section are weighted



Table 21. Risk of Gastrointestinal Hemorrhage in Female Dabigatran Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Dabigatran Users	40,870	13,084.35	116.93	0.32	572	43.72	14	19.08	7.27	1.96 (1.69, 2.27)	<0.001
Female Apixaban Users	37,025	10,105.65	99.69	0.27	249	24.64	6.73	15.00	7.27	1.50 (1.05, 2.27)	<b>\0.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Dabigatran Users	40,853	13,081.88	116.96	0.32	572	43.72	14	19.08	7.28		
Female Apixaban Users	37,024	10,105.62	99.69	0.27	249	24.64	6.73	15.00	7.20		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Dabigatran Users	40,884	13,023.42	116.35	0.32	571	43.84	13.96	19.35	7.25	1.97 (1.69, 2.30)	
Female Apixaban Users	37,009	10,146.87	100.14	0.27	248	24.49	6.71	19.55	7.25	1.57 (1.05, 2.50)	

<sup>1</sup>All values in this section are weighted



Table 22. Risk of Gastrointestinal Hemorrhage in Male Dabigatran Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	430	31.35	9.84	13.34	4.95	1.86 (1.57, 2.20)	<0.001
Male Apixaban Users	39,862	10,827.95	99.22	0.27	195	18.01	4.89	13.54	4.55	1.00 (1.57, 2.20)	<b>\0.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	430	31.35	9.84	13.34	4.95		
Male Apixaban Users	39,862	10,827.95	99.22	0.27	195	18.01	4.89	13.54	4.55		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Dabigatran Users	43,710	13,667.17	114.21	0.31	454	33.2	10.38	16.06	5.7	2.05 (1.72, 2.44)	_
Male Apixaban Users	39,854	10,887.90	99.78	0.27	187	17.14	4.68	10.00	5.7	2.05 (1.72, 2.44	-) -

<sup>1</sup>All values in this section are weighted



Table 23. Risk of Intracranial Hemorrhage in Dabigatran Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Dabigatran Users	84,563	26,801.82	115.76	0.32	93	3.47	1.1	-0.97	-0.11	0.78 (0.58, 1.04)	0.09
Apixaban Users	76,887	20,933.60	99.44	0.27	93	4.44	1.21	0.57	0.11	0.78 (0.56, 1.04)	0.05
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Dabigatran Users	84,561	26,801.69	115.77	0.32	93	3.47	1.1	-0.97	-0.11		
Apixaban Users	76,886	20,933.57	99.45	0.27	93	4.44	1.21	0.57	0.11		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Dabigatran Users	84,600	26,686.01	115.21	0.32	91	3.39	1.07	-1.13	-0.17	0.74 (0.55, 1.00)	_
Apixaban Users	76,863	21,048.50	100.02	0.27	95	4.53	1.24	1.15	0.17	/ 0.74 (0.55, 1.00	

<sup>1</sup>All values in this section are weighted



Table 24. Risk of Intracranial Hemorrhage in Female Dabigatran Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	, at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Dabigatran Users	40,870	13,084.35	116.93	0.32	45	3.44	1.1	-0.62	-0.01	0.84 (0.55, 1.29)	0.43
Female Apixaban Users	37,025	10,105.65	99.69	0.27	41	4.06	1.11	0.02	0.01	0.04 (0.55, 1.25)	0.43
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Dabigatran Users	40,853	13,081.88	116.96	0.32	45	3.44	1.1	-0.62	-0.01		
Female Apixaban Users	37,024	10,105.62	99.69	0.27	41	4.06	1.11	0.02	0.01		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Dabigatran Users	40,884	13,023.42	116.35	0.32	42	3.23	1.03	-1.14	-0.17	0.74 (0.48, 1.14)	_
Female Apixaban Users	37,009	10,146.87	100.14	0.27	44	4.36	1.2	1.14	0.17	0.74 (0.48, 1.14	

<sup>1</sup>All values in this section are weighted


Table 25. Risk of Intracranial Hemorrhage in Male Dabigatran Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	48	3.5	1.1	-1.3	-0.21	0.73 (0.49, 1.08)	0.119
Male Apixaban Users	39,862	10,827.95	99.22	0.27	52	4.8	1.3	1.5	0.21	0.75 (0.45, 1.08)	0.115
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Dabigatran Users	43,693	13,717.47	114.67	0.31	48	3.5	1.1	-1.3	-0.21		
Male Apixaban Users	39,862	10,827.95	99.22	0.27	52	4.8	1.3	1.5	0.21		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Dabigatran Users	43,710	13,667.17	114.21	0.31	47	3.45	1.08	-1.26	-0.21	0.72 (0.47, 1.09)	
Male Apixaban Users	39,854	10,887.90	99.78	0.27	51	4.72	1.29	1.20	0.21	1 0.72 (0.47, 1.09	

<sup>1</sup>All values in this section are weighted



Table 26. Risk of Thromboembolic Stroke in Rivaroxaban Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	111,817	37,643.75	122.96	0.34	298	7.92	2.67	-1.29	0.15	0.94 (0.79, 1.13)	0.529
Apixaban Users	77,233	21,068.22	99.64	0.27	194	9.21	2.51	1.25	0.15	0.54 (0.75, 1.15)	0.525
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	111,814	37,642.92	122.96	0.34	298	7.92	2.67	-1.29	0.15		
Apixaban Users	77,231	21,067.78	99.64	0.27	194	9.21	2.51	1.25	0.15		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	111,814	37,381.05	122.11	0.33	302	8.09	2.7	-0.86	0.25	0.99 (0.82, 1.19)	
Apixaban Users	77,234	21,195.16	100.23	0.27	190	8.95	2.45	0.00	0.25	0.99 (0.82, 1.19	

<sup>1</sup>All values in this section are weighted



Table 27. Risk of Thromboembolic Stroke in Female Rivaroxaban Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	163	9.12	3.14	-1.03	0.37	0.99 (0.77, 1.27)	0.934
Female Apixaban Users	37,129	10,144.51	99.79	0.27	103	10.15	2.77	1.05	0.37	0.55 (0.77, 1.27)	0.554
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	163	9.12	3.14	-1.03	0.37		
Female Apixaban Users	37,125	10,143.80	99.8	0.27	103	10.15	2.77	1.05	0.37		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,896	17,730.89	124.79	0.34	165	9.31	3.18	-0.59	0.46	1.03 (0.80, 1.33)	_
Female Apixaban Users	37,127	10,209.61	100.44	0.27	101	9.9	2.72	0.55	0.40	1.03 (0.00, 1.00)	

<sup>1</sup>All values in this section are weighted



Table 28. Risk of Thromboembolic Stroke in Male Rivaroxaban Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	ted										
Male Rivaroxaban Users	59,919	19,780.55	120.58	0.33	135	6.82	2.25	-1.51	-0.02	0.90 (0.69, 1.17)	0.428
Male Apixaban Users	40,104	10,923.71	99.49	0.27	91	8.33	2.27	1.51	0.02	0.50 (0.05, 1.17)	0.420
Inverse Probability of Treatm	nent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	59,914	19,779.63	120.58	0.33	135	6.83	2.25	-1.51	-0.02		
Male Apixaban Users	40,104	10,923.71	99.49	0.27	91	8.33	2.27	1.51	0.02		
Inverse Probability of Treatm	nent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	59,916	19,644.29	119.75	0.33	137	6.95	2.28	-1.33	0.01	0.92 (0.70, 1.20)	
Male Apixaban Users	40,106	10,981.80	100.01	0.27	91	8.28	2.27	1.55	0.01	0.92 (0.70, 1.20	<i>ı</i> ) -

<sup>1</sup>All values in this section are weighted



Table 29. Risk of Major Extracranial Bleeding in Rivaroxaban Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	111,817	37,643.75	122.96	0.34	1,699	45.13	15.19	21.5	8.75	2.09 (1.89, 2.31)	<0.001
Apixaban Users	77,233	21,068.22	99.64	0.27	498	23.64	6.45	21.5	0.75	2.05 (1.05, 2.51)	<b>\0.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	111,814	37,642.92	122.96	0.34	1,699	45.13	15.19	21.5	8.75		
Apixaban Users	77,231	21,067.78	99.64	0.27	498	23.64	6.45	21.5	0.75		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	111,814	37,381.05	122.11	0.33	1,774	47.44	15.86	25.23	9.77	2.33 (2.11, 2.58)	_
Apixaban Users	77,234	21,195.16	100.23	0.27	471	22.21	6.1	23.23	5.77	2.55 (2.11, 2.56)	

<sup>1</sup>All values in this section are weighted



Table 30. Risk of Major Extracranial Bleeding in Female Rivaroxaban Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	929	52.01	17.9	24.21	10.31	2.08 (1.82, 2.38)	<0.001
Female Apixaban Users	37,129	10,144.51	99.79	0.27	282	27.8	7.6	27.21	10.51	2.00 (1.02, 2.30)	<b>\0.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	929	52.01	17.9	24.21	10.3		
Female Apixaban Users	37,125	10,143.80	99.8	0.27	282	27.8	7.6	24.21	10.5		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,896	17,730.89	124.79	0.34	966	54.51	18.62	28.18	11.38	2.29 (2.00, 2.62)	
Female Apixaban Users	37,127	10,209.61	100.44	0.27	269	26.32	7.24	20.10	11.50	2.23 (2.00, 2.02)	

<sup>1</sup>All values in this section are weighted



Table 31. Risk of Major Extracranial Bleeding in Male Rivaroxaban Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of			Average Person Years	Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Rivaroxaban Users	59,919	19,780.55	120.58	0.33	770	38.93	12.85	19.15	7.46	2.13 (1.83, 2.48)	<0.001
Male Apixaban Users	40,104	10,923.71	99.49	0.27	216	19.77	5.39	15.15	7.40	2.13 (1.03, 2.40)	0.001
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	59,914	19,779.63	120.58	0.33	770	38.93	12.85	19.16	7.47		
Male Apixaban Users	40,104	10,923.71	99.49	0.27	216	19.77	5.39	15.10	7.47		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	59,916	19,644.29	119.75	0.33	802	40.82	13.38	22.23	8.29	2.37 (2.03, 2.76)	
Male Apixaban Users	40,106	10,981.80	100.01	0.27	204	18.59	5.09	22.23	0.25	2.37 (2.03, 2.70)	

<sup>1</sup>All values in this section are weighted



Table 32. Risk of Gastrointestinal Hemorrhage in Rivaroxaban Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	111,817	37,643.75	122.96	0.34	1,522	40.43	13.61	19.36	7.86	2.11 (1.89, 2.34)	<0.001
Apixaban Users	77,233	21,068.22	99.64	0.27	444	21.07	5.75	19.50	7.80	2.11 (1.05, 2.54)	<b>NO.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	111,814	37,642.92	122.96	0.34	1,522	40.43	13.61	19.36	7.86		
Apixaban Users	77,231	21,067.78	99.64	0.27	444	21.07	5.75	19.50	7.80		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	111,814	37,381.05	122.11	0.33	1,590	42.53	14.22	22.72	8.78	2.35 (2.11, 2.61)	
Apixaban Users	77,234	21,195.16	100.23	0.27	420	19.81	5.44	22.72	0.70	2.00 (2.11, 2.01)	

<sup>1</sup>All values in this section are weighted



Table 33. Risk of Gastrointestinal Hemorrhage in Female Rivaroxaban Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of			Average Person Years	Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	830	46.46	15.99	21.82	9.26	2.10 (1.82, 2.42)	<0.001
Female Apixaban Users	37,129	10,144.51	99.79	0.27	250	24.64	6.73	21.02	5.20	2.10 (1.02, 2.42)	0.001
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	830	46.46	15.99	21.82	9.26		
Female Apixaban Users	37,125	10,143.80	99.8	0.27	250	24.65	6.73	21.02	5.20		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,896	17,730.89	124.79	0.34	864	48.71	16.64	25.35	10.22	2.31 (2.00, 2.67)	_
Female Apixaban Users	37,127	10,209.61	100.44	0.27	238	23.35	6.42	23.33	10.22	2.31 (2.00, 2.07)	

<sup>1</sup>All values in this section are weighted



Table 34. Risk of Gastrointestinal Hemorrhage in Male Rivaroxaban Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Male Rivaroxaban Users	59,919	19,780.55	120.58	0.33	692	34.98	11.55	17.22	6.71	2.14 (1.82, 2.51)	<0.001
Male Apixaban Users	40,104	10,923.71	99.49	0.27	194	17.76	4.84	17.22	0.71	2.14 (1.02, 2.31)	<b>NO.001</b>
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Male Rivaroxaban Users	59,914	19,779.63	120.58	0.33	692	34.99	11.55	17.23	6.71		
Male Apixaban Users	40,104	10,923.71	99.49	0.27	194	17.76	4.84	17.25	0.71		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Male Rivaroxaban Users	59,916	19,644.29	119.75	0.33	722	36.74	12.05	20.05	7.48	2.38 (2.02, 2.80)	
Male Apixaban Users	40,106	10,981.80	100.01	0.27	183	16.69	4.57	20.05	7.40	2.38 (2.02, 2.80	

<sup>1</sup>All values in this section are weighted



Table 35. Risk of Intracranial Hemorrhage in Rivaroxaban Users Compared to Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Rivaroxaban Users	111,817	37,643.75	122.96	0.34	195	5.18	1.74	0.77	0.54	1.18 (0.92, 1.51)	0.19
Apixaban Users	77,233	21,068.22	99.64	0.27	93	4.41	1.2	0.77	0.54	1.18 (0.92, 1.91)	0.19
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Rivaroxaban Users	111,814	37,642.92	122.96	0.34	195	5.18	1.74	0.77	0.54		
Apixaban Users	77,231	21,067.78	99.64	0.27	93	4.41	1.2	0.77	0.54		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Rivaroxaban Users	111,814	37,381.05	122.11	0.33	199	5.33	1.78	0.97	0.58	1.23 (0.96, 1.58)	
Apixaban Users	77,234	21,195.16	100.23	0.27	92	4.36	1.2		0.50	1.23 (0.96, 1.58	

<sup>1</sup>All values in this section are weighted



Table 36. Risk of Intracranial Hemorrhage in Female Rivaroxaban Users Compared to Female Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	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	Difference in Risk per 1,000	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweig	hted										
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	85	4.76	1.64	0.72	0.53	1.19 (0.82, 1.73)	0.365
Female Apixaban Users	37,129	10,144.51	99.79	0.27	41	4.04	1.1	0.72	0.55	1.19 (0.82, 1.73)	0.305
Inverse Probability of Treatm	ent Weighted	d Analysis; Unw	eighted; Trim	med							
Female Rivaroxaban Users	51,898	17,863.19	125.72	0.34	85	4.76	1.64	0.72	0.53		
Female Apixaban Users	37,125	10,143.80	99.8	0.27	41	4.04	1.1	0.72	0.55		
Inverse Probability of Treatm	ent Weighted	d Analysis; Wei	ght = ATES <sup>1, 2</sup>								
Female Rivaroxaban Users	51,896	17,730.89	124.79	0.34	85	4.79	1.64	0.61	0.49	1.16 (0.80, 1.70)	_
Female Apixaban Users	37,127	10,209.61	100.44	0.27	43	4.18	1.15		0.45	1.16 (0.80, 1.70)	

<sup>1</sup>All values in this section are weighted



Table 37. Risk of Intracranial Hemorrhage in Male Rivaroxaban Users Compared to Male Apixaban Users by Analysis Type in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015

	Number of	Person Years	•	Average Person Years	Number of	Incidence Rate per 1,000 Person	Risk per 1,000	Incidence Rate Difference per 1,000	• •	Hazard Ratio	Wald P-
Medical Product	New Users	at Risk	at Risk	at Risk	Events	Years	New Users	Person Years	New Users	(95% CI)	Value
Unadjusted Analysis, Unweighted											
Male Rivaroxaban Users	59,919	19,780.55	120.58	0.33	110	5.56	1.84	0.8	0.54	1.17 (0.84, 1.63)	0.352
Male Apixaban Users	40,104	10,923.71	99.49	0.27	52	4.76	1.3				
Inverse Probability of Treatment Weighted Analysis; Unweighted; Trimmed											
Male Rivaroxaban Users	59,914	19,779.63	120.58	0.33	110	5.56	1.84	0.8	0.54		
Male Apixaban Users	40,104	10,923.71	99.49	0.27	52	4.76	1.3				
Inverse Probability of Treatment Weighted Analysis; Weight = ATES <sup>1, 2</sup>											
Male Rivaroxaban Users	59,916	19,644.29	119.75	0.33	114	5.8	1.9	1.21	0.65	1.26 (0.90, 1.77)	-
Male Apixaban Users	40,106	10,981.80	100.01	0.27	50	4.59	1.26				

<sup>1</sup>All values in this section are weighted



Figure 1a. Aggregated Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Dabigatran Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1b. Aggregated Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Dabigatran Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1c. Aggregated Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Dabigatran Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1d. Aggregated Propensity Score Distributions Before and After Adjustment, Female Rivaroxaban and Dabigatran Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1e. Aggregated Propensity Score Distributions Before and After Adjustment, Female Rivaroxaban and Dabigatran Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1f. Aggregated Propensity Score Distributions Before and After Adjustment, Female Rivaroxaban and Dabigatran Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1g. Aggregated Propensity Score Distributions Before and After Adjustment, Male Rivaroxaban and Dabigatran Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1h. Aggregated Propensity Score Distributions Before and After Adjustment, Male Rivaroxaban and Dabigatran Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1i. Aggregated Propensity Score Distributions Before and After Adjustment, Male Rivaroxaban and Dabigatran Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1j. Aggregated Propensity Score Distributions Before and After Adjustment, Dabigatran and Apixaban Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1k. Aggregated Propensity Score Distributions Before and After Adjustment, Dabigatran and Apixaban Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 11. Aggregated Propensity Score Distributions Before and After Adjustment, Dabigatran and Apixaban Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1m. Aggregated Propensity Score Distributions Before and After Adjustment, Female Dabigatran and Apixaban Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1n. Aggregated Propensity Score Distributions Before and After Adjustment, Female Dabigatran and Apixaban Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 10. Aggregated Propensity Score Distributions Before and After Adjustment, Female Dabigatran and Apixaban Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1p. Aggregated Propensity Score Distributions Before and After Adjustment, Male Dabigatran and Apixaban Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1q. Aggregated Propensity Score Distributions Before and After Adjustment, Male Dabigatran and Apixaban Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1r. Aggregated Propensity Score Distributions Before and After Adjustment, Male Dabigatran and Apixaban Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1s. Aggregated Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Apixaban Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1t. Aggregated Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Apixaban Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1u. Aggregated Propensity Score Distributions Before and After Adjustment, Rivaroxaban and Apixaban Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1v. Aggregated Propensity Score Distributions Before and After Adjustment, Female Rivaroxaban and Apixaban Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 1w. Aggregated Propensity Score Distributions Before and After Adjustment, Female Rivaroxaban and Apixaban Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015




Figure 1x. Aggregated Propensity Score Distributions Before and After Adjustment, Female Rivaroxaban and Apixaban Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 1y. Aggregated Propensity Score Distributions Before and After Adjustment, Male Rivaroxaban and Apixaban Users, Unweighted Propensity Score Distribution Before Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



**Unweighted Propensity Score Distribution Before Trimming** 



Figure 1z. Aggregated Propensity Score Distributions Before and After Adjustment, Male Rivaroxaban and Apixaban Users, Unweighted Propensity Score Distribution After Trimming in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



**Unweighted Propensity Score Distribution After Trimming** 



Figure 1aa. Aggregated Propensity Score Distributions Before and After Adjustment, Male Rivaroxaban and Apixaban Users, Weighted Propensity Score Distribution After Trimming, Inverse Probability of Treatment Weighted, Average Treatment Effect Stabilized (ATES) in One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015



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



Figure 2a. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Unadjusted Analyses, Rivaroxaban vs Dabigatran from One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 2b. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Unadjusted Analyses, Dabigatran vs Apixaban from One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 2c. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Unadjusted Analyses, Rivaroxaban vs. Apixaban from One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 2d. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Inverse Probability of Treatment Weighted Analyses, Rivaroxaban vs Dabigatran from One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 2e. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Inverse Probability of Treatment Weighted Analyses, Dabigatran vs Apixaban from One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





Figure 2f. Forest Plot of Hazard Ratios (HR) and 95% Confidence Intervals (CI) for Inverse Probability of Treatment Weighted Analyses, Rivaroxaban vs Apixaban from One Partner of the Sentinel Distributed Database (SDD) between October 19, 2010 and September 30, 2015





#### Appendix A. Start and End Dates for Each Data Partner (DP) up to Request End Date (September 30, 2015)

DP ID	Start Date <sup>1</sup>	End Date <sup>1</sup>
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 B1. Distribution of Inverse Probability of Treatment Weights for Rivaroxaban and Dabigatran Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	<b>Standard Deviation</b>	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	194,583	0.5746402	3.6210897	1.000042	0.1362317	1.2485708	1.3222384	1.4244585
Aggregated	194,583	0.5746402	3.6210897	1.000042	0.1362317	1.2485708	1.3222384	1.4244585



Appendix B2. Distribution of Inverse Probability of Treatment Weights for Female Rivaroxaban and Dabigatran Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	<b>Standard Deviation</b>	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	91,977	0.5862848	3.9943382	1.0000654	0.1485794	1.2699931	1.3516859	1.4599658
Aggregated	91,977	0.5862848	3.9943382	1.0000654	0.1485794	1.2699931	1.3516859	1.4599658



Appendix B3. Distribution of Inverse Probability of Treatment Weights for Male Rivaroxaban and Dabigatran Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	<b>Standard Deviation</b>	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	102,604	0.5791665	2.8100645	1.000037	0.1298797	1.2364673	1.3090918	1.4058322
Aggregated	102,604	0.5791665	2.8100645	1.000037	0.1298797	1.2364673	1.3090918	1.4058322



Appendix B4. Distribution of Inverse Probability of Treatment Weights for Dabigatran and Apixaban Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	<b>Standard Deviation</b>	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	161,447	0.5418451	4.7254208	1.0001033	0.1954288	1.3585458	1.4964388	1.669595
Aggregated	161,447	0.5418451	4.7254208	1.0001033	0.1954288	1.3585458	1.4964388	1.669595



Appendix B5. Distribution of Inverse Probability of Treatment Weights for Female Dabigatran and Apixaban Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	<b>Standard Deviation</b>	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	77,877	0.5356591	6.302663	1.0002003	0.2098833	1.3853353	1.5302964	1.7239429
Aggregated	77,877	0.5356591	6.302663	1.0002003	0.2098833	1.3853353	1.5302964	1.7239429



Appendix B6. Distribution of Inverse Probability of Treatment Weights for Male Dabigatran and Apixaban Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	Standard Deviation	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	83,555	0.5621979	4.6629976	1.0001065	0.1958911	1.3543129	1.4898124	1.6660234
Aggregated	83,555	0.5621979	4.6629976	1.0001065	0.1958911	1.3543129	1.4898124	1.6660234



Appendix B7. Distribution of Inverse Probability of Treatment Weights for Rivaroxaban and Apixaban Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	Standard Deviation	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	189,045	0.5668223	2.2622767	1.0000162	0.125245	1.2228888	1.2936832	1.3889808
Aggregated	189,045	0.5668223	2.2622767	1.0000162	0.125245	1.2228888	1.2936832	1.3889808



Appendix B8. Distribution of Inverse Probability of Treatment Weights for Female Rivaroxaban and Apixaban Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	Standard Deviation	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	89,023	0.5818538	2.2075208	1.0000029	0.1264267	1.2201088	1.2968375	1.4005577
Aggregated	89,023	0.5818538	2.2075208	1.0000029	0.1264267	1.2201088	1.2968375	1.4005577



Appendix B9. Distribution of Inverse Probability of Treatment Weights for Male Rivaroxaban and Apixaban Users, by Data Partner, Weight: Average Treatment Effect, Stabilized (ATES)

Data Partner (Masked)	Number of Patients	Minimum	Maximum	Mean	Standard Deviation	95 <sup>th</sup> Percentile	97.5 <sup>th</sup> Percentile	99 <sup>th</sup> Percentile
DP01	100,018	0.5720102	2.3711476	1.0000443	0.1293337	1.2332058	1.3006863	1.3955053
Aggregated	100,018	0.5720102	2.3711476	1.0000443	0.1293337	1.2332058	1.3006863	1.3955053



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

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



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
	ial 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,	ICD-9-CM	Diagnosis
852.01	unspecified state of consciousness Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no	ICD-9-CM	Diagnosis
852.02	loss of consciousness Subarachnoid hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
852.03	brief (less than 1 hour) loss of consciousness Subarachnoid hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
852.04	moderate (1-24 hours) loss of consciousness Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious	ICD-9-CM	Diagnosis
852.05	level Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing	ICD-9-CM	Diagnosis
852.06	conscious level Subarachnoid hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
	loss of consciousness of unspecified duration		-
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
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
852.21	unspecified state of consciousness Subdural hemorrhage following injury, without mention of open intracranial wound, no loss	ICD-9-CM	Diagnosis
852.22	of consciousness Subdural hemorrhage following injury, without mention of open intracranial wound, brief	ICD-9-CM	Diagnosis
852.23	(less than one hour) loss of consciousness Subdural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
852.24	moderate (1-24 hours) loss of consciousness Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious	ICD-9-CM	Diagnosis



Code	Description		Code Category
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		
852.26	conscious level 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,	ICD-9-CM	Diagnosis
852.41	unspecified state of consciousness Extradural hemorrhage following injury, without mention of open intracranial wound, no	ICD-9-CM	Diagnosis
	loss of consciousness		
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief	ICD-9-CM	Diagnosis
852.43	(less than 1 hour) loss of consciousness Extradural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
852.44	moderate (1-24 hours) loss of consciousness Extradural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
032.44	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious		Diagnosis
052 45	level		Diagnasia
852.45	Extradural 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		
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss	ICD-9-CM	Diagnosis
852.49	of consciousness of unspecified duration Extradural hemorrhage following injury, without mention of open intracranial wound,	ICD-9-CM	Diagnosis
853.0	unspecified concussion Other and unspecified intracranial hemorrhage following injury, without mention of open	ICD-9-CM	Diagnosis
853.00	intracranial wound Other and unspecified intracranial hemorrhage following injury, without mention of open	ICD-9-CM	Diagnosis
	intracranial wound, unspecified state of consciousness		
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	ICD-9-CM	Diagnosis
853.03	intracranial wound, brief (less than 1 hour) loss of consciousness Other and unspecified intracranial hemorrhage following injury, without mention of open	ICD-9-CM	Diagnosis
853.04	intracranial wound, moderate (1-24 hours) loss of consciousness Other and unspecified intracranial hemorrhage following injury, without mention of open	ICD-9-CM	Diagnosis
	intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to		
853.05	preexisting conscious level Other and unspecified intracranial hemorrhage following injury. Without mention of open	ICD-9-CM	Diagnosis
	intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return		
853.06	to pre-existing conscious level Other and unspecified intracranial hemorrhage following injury, without mention of open	ICD-9-CM	Diagnosis
853.09	intracranial wound, loss of consciousness of unspecified duration Other and unspecified intracranial hemorrhage following injury, without mention of open	ICD-9-CM	Diagnosis
	intracranial wound. unspecified concussion		
	testinal Bleeding - List 1		
455.2 455.5	Internal hemorrhoids with other complication External hemorrhoids with other complication	ICD-9-CM	Diagnosis
455.5 455.8	Unspecified hemorrhoids with other complication	ICD-9-CM ICD-9-CM	Diagnosis Diagnosis
455.8	Esophageal varices with bleeding	ICD-9-CM	Diagnosis
456.20	Esophageal varices with bleeding in diseases classified elsewhere	ICD-9-CM	Diagnosis
		102 5 6141	514510515



459.0         Unspecified hemorrhage         ICD 9-CM         Diagnosis           530.7         Gastrosophageal hemorrhage         ICD 9-CM         Diagnosis           531.00         Acute gastric ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           531.01         Acute gastric ulcer with hemorrhage, method mention of obstruction         ICD 9-CM         Diagnosis           531.11         Acute gastric ulcer with hemorrhage, perforation, and obstruction         ICD 9-CM         Diagnosis           531.21         Acute gastric ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           531.40         Chronic or unspecified gastric ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           531.41         Chronic or unspecified gastric ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           532.00         Acute duodenal ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           532.21         Acute duodenal ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           532.22         Acute duodenal ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           532.23         Acute duodenal ulcer with hemorrhage and obstruction         ICD 9-CM         Diagnosis           532.24         Duodenal	Code	Description	Code Type	Code Category
530.7       Gastroesophageal laceration-hemorrhage syndrome       ICD 9-CM       Diagnosis         530.8       Esophageal hemorrhage, without mention of obstruction       ICD 9-CM       Diagnosis         531.00       Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction       ICD 9-CM       Diagnosis         531.11       Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction       ICD 9-CM       Diagnosis         531.21       Acute gastric ulcer with hemorrhage and perforation       ICD 9-CM       Diagnosis         531.41       Chronic or unspecified gastric ulcer with hemorrhage and perforation       ICD 9-CM       Diagnosis         531.61       Chronic or unspecified gastric ulcer with hemorrhage and perforation       ICD 9-CM       Diagnosis         532.21       Acute duodenal ulcer with hemorrhage, perforation, and obstruction       ICD 9-CM       Diagnosis         532.24       Duodenal ulcer, chronic or unspecified, with hemorrhage and petforation, without mention of obstruction       ICD 9-CM       Diagnosis         532.24       Chronic or unspecified duodenal ulcer with hemorrhage and petforation, without mention of obstruction       ICD 9-CM       Diagnosis         532.24       Duodenal ulcer, chronic or unspecified with hemorrhage and obstruction       ICD 9-CM       Diagnosis         533.20       Acute gustruicer with hemorrhage and	459.0			
531.00       Acute gastric ulcer with hemorrhage and 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, perforation, and obstruction       ICD-9-CM       Diagnosis         531.41       Chronic or unspecified gastric ulcer with hemorrhage, and bostruction       ICD-9-CM       Diagnosis         531.42       Chronic or unspecified gastric ulcer with hemorrhage and perforation, and obstruction       ICD-9-CM       Diagnosis         531.61       Chronic or unspecified gastric ulcer with hemorrhage and perforation, and obstruction       ICD-9-CM       Diagnosis         532.02       Acute duodenal ulcer with hemorrhage, perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.21       Acute duodenal ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.24       Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         532.24       Chronic or unspecified duodenal ulcer with hemorrhage, and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.01       Acute poptic ulcer, unspecified duodenal ulcer with hemorrhage, and perforation, without mention of obstruction       ICD-9-CM       Diagnosis	530.7	Gastroesophageal laceration-hemorrhage syndrome	ICD-9-CM	Diagnosis
531.0       Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         531.20       Acute gastric ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         531.41       Chronic or unspecified gastric ulcer with hemorrhage and betroation       ICD-9-CM       Diagnosis         531.42       Chronic or unspecified gastric ulcer with hemorrhage and betruction       ICD-9-CM       Diagnosis         531.61       Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.01       Acute duodenal ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.22       Acute duodenal ulcer with hemorrhage and betroation, without mention of obstruction       ICD-9-CM       Diagnosis         532.23       Acute duodenal ulcer with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.24       Acute duodenal ulcer, with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.24       Duodenal ulcer, with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.01       obstruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagnosis         533.02       obstruction       ICD-9-CM       Diagnosis	530.82	Esophageal hemorrhage	ICD-9-CM	Diagnosis
531.20       Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         531.41       Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         531.42       Chronic or unspecified gastric ulcer with hemorrhage, and perforation, and obstruction       ICD-9-CM       Diagnosis         531.61       Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.02       Acute duodenal ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.21       Acute duodenal ulcer with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         532.22       Acute duodenal ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.24       Chronic or unspecified duodenal ulcer with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         532.25       Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         532.26       of obstruction       ICD-9-CM       Diagnosis       Diagnosis         533.02       catte peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         533.03	531.00	Acute gastric ulcer with hemorrhage, 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 and 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, perforation, and obstruction       ICD-9-CM       Diagnosis         532.01       Acute duodenal ulcer with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.21       Acute duodenal ulcer with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.22       Acute duodenal ulcer with hemorrhage, and bstruction       ICD-9-CM       Diagnosis         532.24       Acute duodenal ulcer with hemorrhage, and bstruction       ICD-9-CM       Diagnosis         532.24       Chronic or unspecified duodenal ulcer with hemorrhage, and bstruction       ICD-9-CM       Diagnosis         533.26       of obstruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagnosis         533.26       Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.20       Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	531.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM	Diagnosis
531.40Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstructionICD-9-CMDiagnosis531.41Chronic or unspecified gastric ulcer with hemorrhage and perforation,ICD-9-CMDiagnosis531.62Chronic or unspecified gastric ulcer with hemorrhage and perforation,ICD-9-CMDiagnosis531.63Chronic or unspecified gastric ulcer with hemorrhage and perforation,ICD-9-CMDiagnosis532.00Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.01Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.21Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.42Duodenal ulcer, chronic or unspecified, with hemorrhage and perforation, without mentionICD-9-CMDiagnosis532.63Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mentionICD-9-CMDiagnosis532.64Chronic or unspecified site, with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis533.03Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis533.12Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis533.24Acute peptic ulcer, unspecified site, with hemorrhage and perforation, and obstructionICD-9-CMDiagnosis533.24Acute peptic ulcer, unspecified si	531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM	-
531.40Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstructionICD-9-CMDiagnosis531.41Chronic or unspecified gastric ulcer with hemorrhage and perforationICD-9-CMDiagnosis531.62Chronic or unspecified gastric ulcer with hemorrhage and perforationICD-9-CMDiagnosis531.63Chronic or unspecified gastric ulcer with hemorrhage and perforation, and obstructionICD-9-CMDiagnosis532.00Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.01Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.21Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.40Duodenal ulcer, chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mentionICD-9-CMDiagnosis532.61Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosis533.00Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis533.22Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis533.21Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of bostructionICD-9-CMDiagnosis533.22Acute peptic ulcer, unspecified site, with hemorrhage and obstructionICD-9-CMDiagnosis533.22Acute peptic ulce	531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	-
531.41Chronic or unspecified gastric ulcer with hemorrhage and perforation, and obstructionICD-9-CMDiagnosis531.60Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosis532.00Acute duodenal ulcer with hemorrhage, without mention of obstructionICD-9-CMDiagnosis532.01Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.02Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.01Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.01Chronic or unspecified duodenal ulcer with hemorrhage and obstructionICD-9-CMDiagnosis532.02ObstructionICD-9-CMDiagnosisDiagnosis532.03Acute perptic ulcer, unspecified duodenal ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosis533.01Acute perptic ulcer, unspecified site, with hemorrhage, and perforation, without mention ofICD-9-CMDiagnosis533.02obstructionICD-9-CMDiagnosisDiagnosis533.03Acute perptic ulcer, unspecified site, with hemorrhage and perforation, without mention ofICD-9-CMDiagnosis533.04obstructionICD-9-CMDiagnosisDiagnosis533.05with perpendent and perforation, without mention ofICD-9-CMDiagnosis533.04obstructionICD-9-CMDiagnosisDiagnosis533.04 <t< td=""><td>531.40</td><td>Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction</td><td>ICD-9-CM</td><td>-</td></t<>	531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM	-
531.60Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosis531.61Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosis532.00Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.01Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.21Acute duodenal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosis532.24Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mentionICD-9-CMDiagnosis532.61Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mentionICD-9-CMDiagnosis533.00Acute peptic ulcer, unspecified duodenal ulcer with hemorrhage, perforation, without mentionICD-9-CMDiagnosis533.01Acute peptic ulcer, unspecified site, with hemorrhage, perforation, without mentionICD-9-CMDiagnosis533.02obstructionICD-9-CMDiagnosisDiagnosis533.03Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention ofICD-9-CMDiagnosis533.01Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention ofICD-9-CMDiagnosis533.02obstructionICD-9-CMDiagnosisDiagnosis533.12Acute peptic ulcer, unspecified site, with hemorrhage and perforation, and obstructionICD-9-CMDiagnosis<	531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	ICD-9-CM	-
531.61       Chronic or unspecified gastric ucler with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         532.00       Acute duodenal ulcer with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.21       Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.20       Duodenal ulcer, chronic or unspecified, with hemorrhage, and obstruction       ICD-9-CM       Diagnosis         532.40       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         533.01       Acute peptic ulcer, unspecified site, with hemorrhage, perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.01       Acute peptic ulcer, unspecified site, with hemorrhage, perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.20       bostruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagnosis         533.21       Acute peptic ulcer, unspecified site, with hemorrhage, perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.20       bostruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagn	531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM	-
532.00       Acute duodenal ulcer with hemorrhage, without mention of obstruction       ICD-9-CM       Diagnosis         532.11       Acute duodenal ulcer with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.20       Acute duodenal ulcer with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.21       Acute duodenal ulcer with hemorrhage, perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.40       Duodenal ulcer, chronic or unspecified duodenal ulcer with hemorrhage and obstruction       ICD-9-CM       Diagnosis         532.61       Chronic or unspecified duodenal ulcer with hemorrhage, perforation, without mention       ICD-9-CM       Diagnosis         533.00       Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         533.01       Acute peptic ulcer, unspecified site, with hemorrhage and obstruction       ICD-9-CM       Diagnosis         533.20       obstruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagnosis         533.21       Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction       ICD-9-CM       Diagnosis         533.20       obstruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagnosis         533.41       Chronic or unspecified site, with hemorrhage, perfo	531.61		ICD-9-CM	-
532.01       Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.22       Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.20       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 perforation, without mention of obstruction       ICD-9-CM       Diagnosis         532.60       of obstruction       ICD-9-CM       Diagnosis       ICD-9-CM       Diagnosis         533.01       Acute pertic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.01       Acute pertic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.01       Acute pertic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction       ICD-9-CM       Diagnosis         533.01       Acute pertic ulcer, unspecified site, with hemorrhage and perforation, without mention of ICD-9-CM       Diagnosis         533.01       Acute pertic ulcer, unspecified site, with hemorrhage and perforation, without mention of ICD-9-CM       Diagnosis         533.01       Acute pertic ulcer, unspecified site, with hemorrhage and perfo	532.00		ICD-9-CM	-
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S34.20Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstructionICD-9-CMDiagnosisS34.21Acute gastrojejunal ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosisS34.40Chronic or unspecified gastrojejunal ulcer with hemorrhage and obstructionICD-9-CMDiagnosisS34.41Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, withoutICD-9-CMDiagnosisS34.60mention of obstructionICD-9-CMDiagnosisS34.61Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosisS34.61Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstructionICD-9-CMDiagnosisS34.51Acute gastritis with hemorrhageICD-9-CMDiagnosisS35.11Atrophic gastritis with hemorrhageICD-9-CMDiagnosisS35.21Gastric mucosal hypertrophy with hemorrhageICD-9-CMDiagnosisS35.31Alcoholic gastritis with hemorrhageICD-9-CMDiagnosisS35.41Other specified gastritis with hemorrhageICD-9-CMDiagnosisS35.51Unspecified gastritis and gastroduodenitis with hemorrhageICD-9-CMDiagnosis	534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	-
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534.61Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction535.01Acute gastritis with hemorrhageICD-9-CMDiagnosis535.11Atrophic gastritis with hemorrhageICD-9-CMDiagnosis535.21Gastric mucosal hypertrophy with hemorrhageICD-9-CMDiagnosis535.31Alcoholic gastritis with hemorrhageICD-9-CMDiagnosis535.41Other specified gastritis with hemorrhageICD-9-CMDiagnosis535.51Unspecified gastritis and gastroduodenitis with hemorrhageICD-9-CMDiagnosis	534.60	mention of obstruction		
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535.41Other specified gastritis with hemorrhageICD-9-CMDiagnosis535.51Unspecified gastritis and gastroduodenitis with hemorrhageICD-9-CMDiagnosis				-
535.51 Unspecified gastritis and gastroduodenitis with hemorrhage ICD-9-CM Diagnosis				-
ICD-9-CM Diagnosis ICD-9-CM Diagnosis				-
	10.020		ICD-9-CIVI	Diagnosis



Code	Description	Code Type	Code Category
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
578.0	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
	testinal Bleeding - List 2		2108.10010
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	External thrombosed hemorrhoids	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
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
551.7	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosis
531.9	perforation		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
532.7	Chronic duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM	Diagnosis
552.7	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosis
532.9	perforation		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
555.7	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of	ICD-9-CM	Diagnosis
533.9	hemorrhage or perforation		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
554.7	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or	ICD-9-CM	Diagnosis
534.9	perforation	100-9-0101	Diagnosis
535.00	Acute gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.10	Atrophic gastritis without mention of hemorrhage	ICD-9-CM	
535.20	Gastric mucosal hypertrophy without mention of hemorrhage	ICD-9-CM	Diagnosis Diagnosis
535.20	Alcoholic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis Diagnosis
535.30 535.40	Other specified gastritis without mention of hemorrhage		Diagnosis Diagnosis
535.40 535.50		ICD-9-CM	Diagnosis
	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



Code	Description	Code Type	Code Category
562.11	Diverticulitis of colon (without mention of hemorrhage)	ICD-9-CM	Diagnosis
530.1	Esophagitis	ICD-9-CM	Diagnosis
Major Ex	xtracranial 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
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
F21 C1	obstruction		Diagnasia
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	ICD-9-CM	Diagnosis
533.64	of obstruction		<b>D</b>
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	ICD-9-CM	Diagnosis
	obstruction		-
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



Code	Description	Code Type	Code Category
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation,	ICD-9-CM	Diagnosis
	without mention of obstruction		
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and	ICD-9-CM	Diagnosis
	obstruction		
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
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	ICD-9-CM	Diagnosis
554.00	mention of obstruction		Diagnosis
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM	Diagnosis
E2E 01	Acute gestrific with homorrhage		Diagnosis
535.01	Acute gastritis with hemorrhage	ICD-9-CM ICD-9-CM	Diagnosis
535.11	Atrophic gastritis with hemorrhage		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
578.0	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
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



Code	Description	Code Type	Code Category
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 Ex	tracranial Bleeding - List 2		
280.0	Iron deficiency anemia secondary to blood loss (chronic)	ICD-9-CM	Diagnosis
285.1	Acute posthemorrhagic anemia	ICD-9-CM	Diagnosis
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
533.1	perforation Acute peptic ulcer, unspecified site, with perforation		Diagnosis
533.3	Acute peptic ulcer, unspecified site, with perforation Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM ICD-9-CM	Diagnosis Diagnosis
533.5 533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CIVI	Diagnosis
533.7	Chronic of unspectived peptic dicer, unspectived site, with perforation Chronic peptic ulcer, unspecified site, without mention of hemorrhage or perforation	ICD-9-CIVI	Diagnosis
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of	ICD-9-CM	Diagnosis
555.5	hemorrhage or perforation		Diagnosis
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
534.3	Acute gastrojejunal ulcer with performation 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
	perforation		
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
	Alcoholic gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.30			
535.30 535.40		ICD-9-CM	-
	Other specified gastritis without mention of hemorrhage Unspecified gastritis and gastroduodenitis without mention of hemorrhage		Diagnosis Diagnosis



Code	Description		Code Category
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
790.92	Abnormal coagulation profile	ICD-9-CM	Diagnosis
Major Ex	tracranial 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	ICD-9-CM	Diagnosis
800.01	consciousness Closed fracture of vault of skull without mention of intracranial injury, no loss of	ICD-9-CM	Diagnosis
800.02	consciousness Closed fracture of vault of skull without mention of intracranial injury, brief (less than one	ICD-9-CM	Diagnosis
800.03	hour) loss of consciousness Closed fracture of vault of skull without mention of intracranial injury, moderate (1-24	ICD-9-CM	Diagnosis
800.04	hours) loss of consciousness Closed fracture of vault of skull without mention of intracranial injury, prolonged (more	ICD-9-CM	Diagnosis
800.05	than 24 hours) loss of consciousness and return to pre-existing conscious level Closed fracture of vault of skull without mention of intracranial injury, prolonged (more	ICD-9-CM	Diagnosis
	than 24 hours) loss of consciousness, without return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
800.19	of unspecified duration Closed fracture of vault of skull with cerebral laceration and contusion, unspecified	ICD-9-CM	Diagnosis
800.2	concussion 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,	ICD-9-CM	Diagnosis
800.21	unspecified state of consciousness Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
800.22	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
800.23	brief (less than one hour) loss of consciousness Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
800.24	moderate (1-24 hours) loss of consciousness Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious		
800.25	level 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	ICD-9-CM	Diagnosis
800.26	conscious level Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
800.29	loss of consciousness of unspecified duration Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
800.3	unspecified concussion 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,	ICD-9-CM	Diagnosis
800.31	unspecified state of consciousness Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, no loss	ICD-9-CM	Diagnosis
800.32	of consciousness Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, brief	ICD-9-CM	Diagnosis
800.33	(less than one hour) loss of consciousness Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
800.34	moderate (1-24 hours) loss of consciousness Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious		
800.35	level Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		
800.36	conscious level Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of	ICD-9-CM	Diagnosis
800.39	consciousness of unspecified duration Closed fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
800.4	unspecified concussion 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,	ICD-9-CM	Diagnosis
800.41	unspecified state of consciousness Closed fracture of vault of skull with intracranial injury of other and unspecified nature, no	ICD-9-CM	Diagnosis
800.42	loss of consciousness Closed fracture of vault of skull with intracranial injury of other and unspecified nature, brief	ICD-9-CM	Diagnosis
800.43	(less than one hour) loss of consciousness Closed fracture of vault of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
800.44	moderate (1-24 hours) loss of consciousness Closed 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		
800.45	level Closed 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, without return to pre-existing conscious level		
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



Code	Description		Code Category
800.49	Closed fracture of vault of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
800.5	unspecified concussion 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	ICD-9-CIVI	Diagnosis
	consciousness		2.08.0000
800.51	Open fracture of vault of skull without mention of intracranial injury, no loss of	ICD-9-CM	Diagnosis
000 53	consciousness		Diamagia
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)	ICD-9-CM	Diagnosis
	loss of consciousness		-
800.54	Open fracture of vault of skull without mention of intracranial injury, prolonged (more than	ICD-9-CM	Diagnosis
800.55	24 hours) loss of consciousness and return to pre-existing conscious level Open fracture of vault of skull without mention of intracranial injury, prolonged (more than	ICD-9-CM	Diagnosis
800.55	24 hours) loss of consciousness, without return to pre-existing conscious level		Diagnosis
800.56	Open fracture of vault of skull without mention of intracranial injury, loss of consciousness	ICD-9-CM	Diagnosis
	of unspecified duration		
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	ICD-9-CM	Diagnosis
	consciousness		
800.61	Open fracture of vault of skull with cerebral laceration and contusion, no loss of	ICD-9-CM	Diagnosis
800.62	consciousness Open fracture of vault of skull with cerebral laceration and contusion, brief (less than one	ICD-9-CM	Diagnosis
000.02	hour) loss of consciousness		Diagnosis
800.63	Open fracture of vault of skull with cerebral laceration and contusion, moderate (1-24	ICD-9-CM	Diagnosis
000 64	hours) loss of consciousness		<b>D</b> : .
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	ICD-9-CM	Diagnosis
	24 hours) loss of consciousness, without return to pre-existing conscious level		-
800.66	Open fracture of vault of skull with cerebral laceration and contusion, loss of consciousness	ICD-9-CM	Diagnosis
800.69	of unspecified duration Open fracture of vault of skull with cerebral laceration and contusion, unspecified	ICD-9-CM	Diagnosis
800.05	concussion		Diagnosis
800.7	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
			<b>.</b>
800.70	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM	Diagnosis
800.71	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no	ICD-9-CM	Diagnosis
	loss of consciousness		
800.72	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
200 72	brief (less than one hour) loss of consciousness		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,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious		
000 75	level		Dienaria
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	ICD-9-CM	Diagnosis
	conscious level		



Code	Description	Code Type	Code Category
800.76	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
800.79	loss of consciousness of unspecified duration Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
800.8	unspecified concussion 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,	ICD-9-CM	Diagnosis
000.00	unspecified state of consciousness		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	ICD-9-CM	Diagnosis
800.83	(less than one hour) loss of consciousness Open fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
800.84	moderate (1-24 hours) loss of consciousness Open fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
800.86	conscious level Open fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of	ICD-9-CM	Diagnosis
800.89	consciousness of unspecified duration Open fracture of vault of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
800.9	unspecified concussion 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,	ICD-9-CM	Diagnosis
800.91	unspecified state of consciousness Open fracture of vault of skull with intracranial injury of other and unspecified nature, no	ICD-9-CM	Diagnosis
800.92	loss of consciousness Open fracture of vault of skull with intracranial injury of other and unspecified nature, brief	ICD-9-CM	Diagnosis
800.93	(less than one hour) loss of consciousness Open fracture of vault of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
800.94	moderate (1-24 hours) loss of consciousness Open fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious	ICD-9-CM	Diagnosis
800.95	level Open fracture of vault of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
000.55	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level		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,	ICD-9-CM	Diagnosis
801	unspecified concussion 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	ICD-9-CM	Diagnosis
801.01	consciousness Closed fracture of base of skull without mention of intracranial injury, no loss of	ICD-9-CM	Diagnosis
801.02	consciousness Closed fracture of base of skull without mention of intracranial injury, brief (less than one	ICD-9-CM	Diagnosis
001.0Z	hour) loss of consciousness		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



Code	Description	Code Type	Code Category
801.04	Closed fracture of base of skull without mention of intracranial injury, prolonged (more than	ICD-9-CM	Diagnosis
801.05	24 hours) loss of consciousness and return to pre-existing conscious level Closed fracture of base of skull without mention of intracranial injury, prolonged (more than	ICD-9-CM	Diagnosis
	24 hours) loss of consciousness, without return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
801.13	hour) loss of consciousness Closed fracture of base of skull with cerebral laceration and contusion, moderate (1-24	ICD-9-CM	Diagnosis
801.14	hours) loss of consciousness Closed fracture of base of skull with cerebral laceration and contusion, prolonged (more	ICD-9-CM	Diagnosis
801.15	than 24 hours) loss of consciousness and return to pre-existing conscious level Closed fracture of base of skull with cerebral laceration and contusion, prolonged (more	ICD-9-CM	Diagnosis
	than 24 hours) loss of consciousness, without return to pre-existing conscious level		
801.16	Closed fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM	Diagnosis
801.19	Closed fracture of base of skull with cerebral laceration and contusion, unspecified	ICD-9-CM	Diagnosis
801.2	concussion Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM	Diagnosis
801.20	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.21	unspecified state of consciousness Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no	ICD-9-CM	Diagnosis
801.22	loss of consciousness Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.23	brief (less than one hour) loss of consciousness Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.24	moderate (1-24 hours) loss of consciousness Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
801.26	conscious level Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.29	loss of consciousness of unspecified duration Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
	unspecified concussion		-
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



Code	Description	Code Type	Code Category
801.32	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, brief	ICD-9-CM	Diagnosis
801.33	(less than one hour) loss of consciousness Closed fracture of base of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
801.34	moderate (1-24 hours) loss of consciousness Closed fracture of base of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
801.36	conscious level Closed fracture of base of skull with other and unspecified intracranial hemorrhage, loss of	ICD-9-CM	Diagnosis
801.39	consciousness of unspecified duration Closed fracture of base of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
801.4	unspecified concussion 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,	ICD-9-CM	Diagnosis
801.41	unspecified state of consciousness Closed fracture of base of skull with intracranial injury of other and unspecified nature, no	ICD-9-CM	Diagnosis
801.42	loss of consciousness Closed fracture of base of skull with intracranial injury of other and unspecified nature, brief	ICD-9-CM	Diagnosis
801.43	(less than one hour) loss of consciousness Closed fracture of base of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
801.44	moderate (1-24 hours) loss of consciousness Closed fracture of base 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		
801.45	Closed fracture of base of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level		
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,	ICD-9-CM	Diagnosis
801.5	unspecified concussion 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	ICD-9-CM	Diagnosis
801.53	hour) loss of consciousness Open fracture of base of skull without mention of intracranial injury, moderate (1-24 hours)	ICD-9-CM	Diagnosis
801.54	loss of consciousness Open fracture of base of skull without mention of intracranial injury, prolonged (more than	ICD-9-CM	Diagnosis
801.55	24 hours) loss of consciousness and return to pre-existing conscious level Open fracture of base of skull without mention of intracranial injury, prolonged (more than	ICD-9-CM	Diagnosis
801.56	24 hours) loss of consciousness, without return to pre-existing conscious level Open fracture of base of skull without mention of intracranial injury, loss of consciousness	ICD-9-CM	Diagnosis
801.59	of unspecified duration Open fracture of base of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
801.60	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of	ICD-9-CM	Diagnosis
801.61	consciousness Open fracture of base of skull with cerebral laceration and contusion, no loss of	ICD-9-CM	Diagnosis
801.62	consciousness Open fracture of base of skull with cerebral laceration and contusion, brief (less than one	ICD-9-CM	Diagnosis
801.63	hour) loss of consciousness Open fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours)	ICD-9-CM	Diagnosis
801.64	loss of consciousness Open fracture of base of skull with cerebral laceration and contusion, prolonged (more than	ICD-9-CM	Diagnosis
801.65	24 hours) loss of consciousness and return to pre-existing conscious level Open fracture of base of skull with cerebral laceration and contusion, prolonged (more than	ICD-9-CM	Diagnosis
801.66	24 hours) loss of consciousness, without return to pre-existing conscious level Open fracture of base of skull with cerebral laceration and contusion, loss of consciousness	ICD-9-CM	Diagnosis
801.69	of unspecified duration Open fracture of base of skull with cerebral laceration and contusion, unspecified	ICD-9-CM	Diagnosis
801.7	concussion 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,	ICD-9-CM	Diagnosis
801.71	unspecified state of consciousness Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no	ICD-9-CM	Diagnosis
801.72	loss of consciousness Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.73	brief (less than one hour) loss of consciousness Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.74	moderate (1-24 hours) loss of consciousness Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
801.76	conscious level Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss	ICD-9-CM	Diagnosis
801.79	of consciousness of unspecified duration Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
801.8	unspecified concussion 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	ICD-9-CM	Diagnosis
801.85	level 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



Code	Description	Code Type	Code Category
801.86	Open fracture of base of skull with other and unspecified intracranial hemorrhage, loss of	ICD-9-CM	Diagnosis
801.89	consciousness of unspecified duration Open fracture of base of skull with other and unspecified intracranial hemorrhage,	ICD-9-CM	Diagnosis
801.9	unspecified concussion 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,	ICD-9-CM	Diagnosis
501.50	unspecified state of consciousness	ICD-J-CIVI	Diagnosis
801.91	Open fracture of base of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM	Diagnosis
801.92	Open fracture of base of skull with intracranial injury of other and unspecified nature, brief	ICD-9-CM	Diagnosis
801.93	(less than one hour) loss of consciousness Open fracture of base of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
801.94	moderate (1-24 hours) loss of consciousness Open fracture of base 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		
801.95	Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing	ICD-9-CM	Diagnosis
801.96	conscious level Open fracture of base of skull with intracranial injury of other and unspecified nature, loss	ICD-9-CM	Diagnosis
301.99	of consciousness of unspecified duration Open fracture of base of skull with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
302	unspecified concussion Fracture of face bones	ICD-9-CM	Diagnosis
302.0		ICD-9-CIVI	Diagnosis Diagnosis
802.0 802.1	Nasal bones, closed fracture Nasal bones, open fracture	ICD-9-CIVI	Diagnosis
02.1 02.2	Mandible, closed fracture	ICD-9-CIVI	Diagnosis
02.2	Closed fracture of unspecified site of mandible	ICD-9-CM	Diagnosis
02.20	Closed fracture of condylar process of mandible	ICD-9-CM	Diagnosis
02.22	Closed fracture of subcondylar process of mandible	ICD-9-CM	Diagnosis
02.23	Closed fracture of coronoid process of mandible	ICD-9-CM	Diagnosis
02.23	Closed fracture of unspecified part of ramus of mandible	ICD-9-CM	Diagnosis
02.25	Closed fracture of angle of jaw	ICD-9-CM	Diagnosis
02.26	Closed fracture of symphysis of body of mandible	ICD-9-CM	Diagnosis
02.27	Closed fracture of alveolar border of body of mandible	ICD-9-CM	Diagnosis
02.28	Closed fracture of other and unspecified part of body of mandible	ICD-9-CM	Diagnosis
02.29	Closed fracture of multiple sites of mandible	ICD-9-CM	Diagnosis
02.3	Mandible, open fracture	ICD-9-CM	Diagnosis
02.30	Open fracture of unspecified site of mandible	ICD-9-CM	Diagnosis
02.31	Open fracture of condylar process of mandible	ICD-9-CM	Diagnosis
02.32	Open fracture of subcondylar process of mandible	ICD-9-CM	Diagnosis
02.33	Open fracture of coronoid process of mandible	ICD-9-CM	Diagnosis
02.34	Open fracture of unspecified part of ramus of mandible	ICD-9-CM	Diagnosis
02.35	Open fracture of angle of jaw	ICD-9-CM	Diagnosis
02.36	Open fracture of symphysis of body of mandible	ICD-9-CM	Diagnosis
02.37	Open fracture of alveolar border of body of mandible	ICD-9-CM	Diagnosis
02.38	Open fracture of other and unspecified part of body of mandible	ICD-9-CM	Diagnosis
02.39	Open fracture of multiple sites of mandible	ICD-9-CM	Diagnosis
802.4	Malar and maxillary bones, closed fracture	ICD-9-CM	Diagnosis
02.5	Malar and maxillary bones, open fracture	ICD-9-CM	Diagnosis
302.6	Orbital floor (blow-out), closed fracture	ICD-9-CM	Diagnosis


Code	Description	Code Type	Code 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	ICD-9-CM	Diagnosis
803.01	consciousness 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)	ICD-9-CM	Diagnosis
803.04	loss of consciousness Other closed skull fracture without mention of intracranial injury, prolonged (more than 24	ICD-9-CM	Diagnosis
803.05	hours) loss of consciousness and return to pre-existing conscious level Other closed skull fracture without mention of intracranial injury, prolonged (more than 24	ICD-9-CM	Diagnosis
803.06	hours) loss of consciousness, without return to pre-existing conscious level Other closed skull fracture without mention of intracranial injury, loss of consciousness of	ICD-9-CM	Diagnosis
803.09	unspecified duration 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)	ICD-9-CM	Diagnosis
803.13	loss of consciousness Other closed skull fracture with cerebral laceration and contusion, moderate (1-24 hours)	ICD-9-CM	Diagnosis
803.14	loss of consciousness Other closed skull fracture with cerebral laceration and contusion, prolonged (more than 24	ICD-9-CM	Diagnosis
803.15	hours) loss of consciousness and return to pre-existing conscious level Other closed skull fracture with cerebral laceration and contusion, prolonged (more than 24	ICD-9-CM	Diagnosis
803.16	hours) loss of consciousness, without return to pre-existing conscious level Other closed skull fracture with cerebral laceration and contusion, loss of consciousness of	ICD-9-CM	Diagnosis
803.19	unspecified duration 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,	ICD-9-CM	Diagnosis
803.21	unspecified state of consciousness Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss	ICD-9-CM	Diagnosis
803.22	of consciousness Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief	ICD-9-CM	Diagnosis
803.23	(less than one hour) loss of consciousness Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
803.24	moderate (1-24 hours) loss of consciousness Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
	conscious level		



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



Code	Description	Code Type	Code Category
803.55	Other open skull fracture without mention of intracranial injury, prolonged (more than 24	ICD-9-CM	Diagnosis
803.56	hours) loss of consciousness. without return to pre-existing conscious level Other open skull fracture without mention of intracranial injury, loss of consciousness of	ICD-9-CM	Diagnosis
803.59	unspecified duration 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	ICD-9-CM	Diagnosis
803.66	hours) loss of consciousness, without return to pre-existing conscious level Other open skull fracture with cerebral laceration and contusion, loss of consciousness of	ICD-9-CM	Diagnosis
803.69	unspecified duration 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,	ICD-9-CM	Diagnosis
803.71	unspecified state of consciousness Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss	ICD-9-CM	Diagnosis
803.72	of consciousness Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief	ICD-9-CM	Diagnosis
803.73	(less than one hour) loss of consciousness Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
803.74	moderate (1-24 hours) loss of consciousness Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
	prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
803.76	conscious level Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of	ICD-9-CM	Diagnosis
803.79	consciousness of unspecified duration Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage,	ICD-9-CM	Diagnosis
803.8	unspecified concussion 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	ICD-9-CM	Diagnosis
803.81	state of consciousness Other open skull fracture with other and unspecified intracranial hemorrhage, no loss of	ICD-9-CM	Diagnosis
803.82	consciousness Other open skull fracture with other and unspecified intracranial hemorrhage, brief (less	ICD-9-CM	Diagnosis
803.83	than one hour) loss of consciousness Other open skull fracture with other and unspecified intracranial hemorrhage, moderate (1- 24 hours) loss of consciousness	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
803.84	Other open skull fracture with other and unspecified intracranial hemorrhage, prolonged	ICD-9-CM	Diagnosis
	(more than 24 hours) loss of consciousness and return to pre-existing conscious level		
803.85	Other open skull fracture with other and unspecified intracranial hemorrhage, prolonged	ICD-9-CM	Diagnosis
	(more than 24 hours) loss of consciousness, without return to pre-existing conscious level		
803.86	Other open skull fracture with other and unspecified intracranial hemorrhage, loss of	ICD-9-CM	Diagnosis
803.89	consciousness of unspecified duration Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified	ICD-9-CM	Diagnosis
	concussion		<b>D</b>
803.9 803.90	Other open skull fracture with intracranial injury of other and unspecified nature Other open skull fracture with intracranial injury of other and unspecified nature,	ICD-9-CM ICD-9-CM	Diagnosis Diagnosis
605.90	unspecified state of consciousness	ICD-9-CIVI	Diagnosis
803.91	Other open skull fracture with intracranial injury of other and unspecified nature, no loss of	ICD-9-CM	Diagnosis
803.92	consciousness Other open skull fracture with intracranial injury of other and unspecified nature, brief (less	ICD-9-CM	Diagnosis
002.02	than one hour) loss of consciousness		Diagragia
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	ICD-9-CM	Diagnosis
	(more than 24 hours) loss of consciousness and return to pre-existing conscious level		
803.95	Other open skull fracture with intracranial injury of other and unspecified nature, prolonged	ICD-9-CM	Diagnosis
	(more than 24 hours) loss of consciousness, without return to pre-existing conscious level		
803.96	Other open skull fracture with intracranial injury of other and unspecified nature, loss of	ICD-9-CM	Diagnosis
803.99	consciousness of unspecified duration Other open skull fracture with intracranial injury of other and unspecified nature,	ICD-9-CM	Diagnosis
804	unspecified concussion 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
~ ~ ~ ~ ~	iniurv		<b>.</b>
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	ICD-9-CM	Diagnosis
804.02	iniurv, no loss of consciousness Closed fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
004.00	injury, brief (less than one hour) loss of consciousness		<b>D</b>
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	ICD-9-CM	Diagnosis
	injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing		
804.05	conscious level Closed fractures involving skull of face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
	injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		
804.06	conscious level Closed fractures involving skull of face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
	iniury, loss of consciousness of unspecified duration		-
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	ICD-9-CM	Diagnosis
	contusion		



Code	Description	Code Type	Code Category
804.10	Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.11	contusion, unspecified state of consciousness Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.12	contusion, no loss of consciousness Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.13	contusion, brief (less than one hour) loss of consciousness Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.14	contusion, moderate (1-24 hours) loss of consciousness Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.15	contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level 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-	ICD-9-CM	Diagnosis
804.16	existing conscious level Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.19	contusion. loss of consciousness of unspecified duration Closed fractures involving skull or face with other bones, with cerebral laceration and	ICD-9-CM	Diagnosis
804.2	contusion. unspecified concussion Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
804.20	extradural hemorrhage Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
804.21	extradural hemorrhage, unspecified state of consciousness Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
804.22	extradural hemorrhage, no loss of consciousness Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
804.23	extradural hemorrhage. brief (less than one hour) loss of consciousness Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
804.24	extradural hemorrhage, moderate (1-24 hours) loss of consciousness Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
804.25	extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to nre-existing conscious level Closed fractures involving skull or face with other bones with subarachnoid, subdural, and	ICD-9-CM	Diagnosis
	extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level		
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	ICD-9-CM	Diagnosis
804.33	intracranial hemorrhage, brief (less than one hour) loss of consciousness Closed fractures involving skull or face with other bones, with other and unspecified	ICD-9-CM	Diagnosis
804.34	intracranial hemorrhage, moderate (1-24 hours) loss of consciousness 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



Code	Description	Code Type	Code Category
804.35	Closed fractures involving skull or face with other bones, with other and unspecified	ICD-9-CM	Diagnosis
	intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without		
804.36	return to pre-existing conscious level Closed fractures involving skull or face with other bones, with other and unspecified	ICD-9-CM	Diagnosis
	intracranial hemorrhage, loss of consciousness of unspecified duration		-
804.39	Closed fractures involving skull or face with other bones, with other and unspecified	ICD-9-CM	Diagnosis
804.4	intracranial hemorrhage, unspecified concussion 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	ICD-9-CM	Diagnosis
804.41	and unspecified nature, unspecified state of consciousness Closed fractures involving skull or face with other bones, with intracranial injury of other	ICD-9-CM	Diagnosis
004 42	and unspecified nature, no loss of consciousness		Diagnasis
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	ICD-9-CM	Diagnosis
804.44	and unspecified nature, moderate (1-24 hours) loss of consciousness Closed fractures involving skull or face with other bones, with intracranial injury of other	ICD-9-CM	Diagnosis
	and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to		
804.45	pre-existing conscious level Closed fractures involving skull or face with other bones, with intracranial injury of other	ICD-9-CM	Diagnosis
001.15	and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without		Diagnosis
804.46	return to pre-existing conscious level Closed fractures involving skull or face with other bones, with intracranial injury of other	ICD-9-CM	Diagnosis
	and unspecified nature, loss of consciousness of unspecified duration		
804.49	Closed fractures involving skull or face with other bones, with intracranial injury of other	ICD-9-CM	Diagnosis
804.5	and unspecified nature, unspecified concussion Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
804.50	iniurv Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
	injury, unspecified state of consciousness		-
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	ICD-9-CM	Diagnosis
804.53	iniurv. brief (less than one hour) loss of consciousness Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
004.55	injury, moderate (1-24 hours) loss of consciousness		Diagnosis
804.54	Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
	injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing		
804.55	conscious level Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
004.55	injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing		Diagnosis
	conscious level		
804.56	Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
804.59	iniurv. loss of consciousness of unspecified duration Open fractures involving skull or face with other bones, without mention of intracranial	ICD-9-CM	Diagnosis
004.5	injury, unspecified concussion		<b>D</b>
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	ICD-9-CM	Diagnosis
	contusion, unspecified state of consciousness		



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



Code	Description	Code Type	Code Category
804.86	Open fractures involving skull or face with other bones, with other and unspecified	ICD-9-CM	Diagnosis
804.89	intracranial hemorrhage, loss of consciousness of unspecified duration Open fractures involving skull or face with other bones, with other and unspecified	ICD-9-CM	Diagnosis
804.9	intracranial hemorrhage, unspecified concussion Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.90	unspecified nature Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.91	unspecified nature. unspecified state of consciousness Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.92	unspecified nature. no loss of consciousness Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.93	unspecified nature, brief (less than one hour) loss of consciousness Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.94	unspecified nature, moderate (1-24 hours) loss of consciousness Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
	unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre- existing conscious level		
804.95	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to	ICD-9-CM	Diagnosis
804.96	nre-existing level Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.99	unspecified nature. loss of consciousness of unspecified duration Open fractures involving skull or face with other bones, with intracranial injury of other and	ICD-9-CM	Diagnosis
804.99	unspecified nature, unspecified concussion		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
805.13	Open fracture of third cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
805.14	Open fracture of fourth cervical vertebra without mention of spinal cord injury	ICD-9-CM	Diagnosis
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
805.18	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
805.4	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
805.6	closed fracture of sacrum and coccyx without mention of spinal cord injury	ICD-9-CIVI	Diagnosis



Code	Description	Code Type	<b>Code Category</b>
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	ICD-9-CM	Diagnosis
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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
806.00	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
806.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.01	Closed fracture of C1-C4 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.02	Closed fracture of C1-C4 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.03	Closed fracture of C1-C4 level with central cord syndrome	ICD-9-CM	Diagnosis
806.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.04	Closed fracture of C1-C4 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.05	Closed fracture of C5-C7 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.06	Closed fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.06	Closed fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.06	Closed fracture of C5-C7 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.07	Closed fracture of C5-C7 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.08	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
806.08	Closed fracture of C5-C7 level with central cord syndrome	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
806.09	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



Code	Description	Code Type	Code Category
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
806.25	Closed fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.26	Closed fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.27	Closed fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.28	Closed fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.29	Closed fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.3	Open fracture of dorsal vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.3	Open fracture of dorsal vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.30	Open fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.30	Open fracture of T1-T6 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.31	Open fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.31	Open fracture of T1-T6 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.32	Open fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.32	Open fracture of T1-T6 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.33	Open fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis
806.33	Open fracture of T1-T6 level with central cord syndrome	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
806.34	Open fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.34	Open fracture of T1-T6 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.35	Open fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.35	Open fracture of T7-T12 level with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.36	Open fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.36	Open fracture of T7-T12 level with complete lesion of cord	ICD-9-CM	Diagnosis
806.37	Open fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.37	Open fracture of T7-T12 level with anterior cord syndrome	ICD-9-CM	Diagnosis
806.38	Open fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.38	Open fracture of T7-T12 level with central cord syndrome	ICD-9-CM	Diagnosis
806.39	Open fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.39	Open fracture of T7-T12 level with other specified spinal cord injury	ICD-9-CM	Diagnosis
806.4	Closed fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.4	Closed fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.5	Open fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.5	Open fracture of lumbar spine with spinal cord injury	ICD-9-CM	Diagnosis
806.6	Closed fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.6	Closed fracture of sacrum and coccyx with spinal cord injury	ICD-9-CM	Diagnosis
806.60	Closed fracture of sacrum and coccyx with unspecified spinal cord injury	ICD-9-CM	Diagnosis
806.60	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
806.62	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
806.71	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
806.72	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
806.79 806.8	Closed fracture of unspecified vertebra with spinal cord injury	ICD-9-CM	Diagnosis
806.8 806.8	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	
806.9 806.9		ICD-9-CM	Diagnosis
800.9 807	Open fracture of unspecified vertebra with spinal cord injury Fracture of rib(s), sternum, larynx, and trachea	ICD-9-CM	Diagnosis
			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



Code	Description	Code Type	Code Category
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
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
808	Fracture of pelvis	ICD-9-CM	Diagnosis
808.0	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
808.1	Open fracture of acetabulum	ICD-9-CM	Diagnosis
808.2	Closed fracture of pubis	ICD-9-CM	Diagnosis
808.2	Closed fracture of publs	ICD-9-CM	Diagnosis
808.2	Open fracture of pubis	ICD-9-CM	Diagnosis
808.3	Open fracture of publis	ICD-9-CM	Diagnosis
808.3 808.4	Closed fracture of other specified part of pelvis	ICD-9-CM	Diagnosis
808.4 808.4	Closed fracture of other specified part of pelvis	ICD-9-CM	
808.41 808.41	Closed fracture of ilium	ICD-9-CM	Diagnosis
			Diagnosis
808.41	Closed fracture of illum	ICD-9-CM	Diagnosis
808.42	Closed fracture of ischium	ICD-9-CM	Diagnosis
808.42	Closed fracture of ischium	ICD-9-CM	Diagnosis
808.43	Multiple closed pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
808.43	Multiple closed pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
808.44	Multiple closed pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
808.44	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
808.49	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
808.52	Open fracture of ischium	ICD-9-CM	Diagnosis
808.53	Multiple open pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
808.53	Multiple open pelvic fractures with disruption of pelvic circle	ICD-9-CM	Diagnosis
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808.54	Multiple open pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
808.54	Multiple open pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis
808.54 808.59	Multiple open pelvic fractures without disruption of pelvic circle Open fracture of other specified part of pelvis	ICD-9-CM ICD-9-CM	Diagnosis Diagnosis
808.54	Multiple open pelvic fractures without disruption of pelvic circle	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
808.8	Unspecified closed fracture of pelvis	ICD-9-CM	Diagnosis
808.9	Unspecified open fracture of pelvis	ICD-9-CM	Diagnosis
808.9	Unspecified open fracture of pelvis	ICD-9-CM	Diagnosis
809	Ill-defined fractures of bones of trunk	ICD-9-CM	Diagnosis
809.0	Fracture of bones of trunk, closed	ICD-9-CM	Diagnosis
809.1	Fracture of bones of trunk, open	ICD-9-CM	Diagnosis
810	Fracture of clavicle	ICD-9-CM	Diagnosis
810.0	Closed fracture of clavicle	ICD-9-CM	Diagnosis
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
812.00	Closed fracture of surgical neck of humerus	ICD-9-CM	Diagnosis
812.01	Closed fracture of surgical neck of humerus	ICD-9-CM	
812.01 812.02	Closed fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.02 812.02	Closed fracture of anatomical neck of humerus	ICD-9-CM	Diagnosis
812.02		ICD-9-CM	Diagnosis
	Closed fracture of greater tuberosity of humerus		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



Code	Description	Code Type	Code Category
812.13	Open fracture of greater tuberosity of humerus	ICD-9-CM	Diagnosis
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
812.50	Open fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.51	Open fracture of supracondylar humerus	ICD-9-CM	Diagnosis
812.51	Open fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.52	Open fracture of lateral condyle of humerus	ICD-9-CM	Diagnosis
812.52	Open fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.53	Open fracture of medial condyle of humerus	ICD-9-CM	Diagnosis
812.53	Open fracture of unspecified condyle(s) of humerus	ICD-9-CM	Diagnosis
812.54 812.54	Open fracture of unspecified condyle(s) of humerus	ICD-9-CM	
812.54 812.59	Other open fracture of lower end of humerus	ICD-9-CM	Diagnosis
812.59		ICD-9-CM	Diagnosis Diagnosis
	Other open fracture of lower end of humerus		_
813 812 0	Fracture of radius and ulna Closed fracture of upper and of radius and ulpa	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



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

Code	Description	Code Type	Code Category
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
813.32 813.33	Open fracture of shaft of radius with ulna	ICD-9-CM	—
813.35 813.4	Closed fracture of lower end of radius and ulna		Diagnosis
		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
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	Ill-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
			Diagnosis



Code	Description	Code Type	Code Category
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
320.0	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
320.02	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
320.03	Closed fracture of base of neck of femur	ICD-9-CM	Diagnosis
320.09	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
320.11	Open fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
320.12	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
320.12	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
320.13	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
320.13	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
320.19	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
320.2	Closed pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
820.20	Closed fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.20	Closed fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
320.21	Closed fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
320.21	Closed fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
320.22	Closed fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
320.22	Closed fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
320.3	Open pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
320.3	Open pertrochanteric fracture of femur	ICD-9-CM	Diagnosis
320.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
320.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
320.30	Open fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
320.31	Open fracture of intertrochanteric section of femur	ICD-9-CM	Diagnosis
320.31	Open fracture of subtrochanteric section of femur	ICD-9-CIVI	Diagnosis
		ICD-9-CIVI	
820.32 820.8	Open fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
	Closed fracture of unspecified part of neck of femur		Diagnosis
820.8	Closed fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
320.9	Open fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
320.9	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



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

Code	Description	Code Type	Code Category
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
821.23	Closed supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.23	Closed supracondylar fracture of femur	ICD-9-CM	Diagnosis
821.29	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
821.25	Open fracture of lower end of femur	ICD-9-CM	Diagnosis
821.3	Open fracture of lower end of femur	ICD-9-CM	
821.3 821.30	-		Diagnosis
	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



Code	Description	Code Type	Code Category
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
824.1	Open fracture of medial malleolus	ICD-9-CM	Diagnosis
824.2	Closed fracture of lateral malleolus	ICD-9-CM	Diagnosis
824.2	Open fracture of lateral malleolus	ICD-9-CM	Diagnosis
824.3 824.4	Closed bimalleolar fracture	ICD-9-CM	Diagnosis
824.4 824.5	Open bimalleolar fracture	ICD-9-CIM	Diagnosis
824.5 824.6	Closed trimalleolar fracture	ICD-9-CIVI	Diagnosis
824.0 824.7	Open trimalleolar fracture	ICD-9-CIM	Diagnosis
824.8 824.9	Unspecified closed fracture of ankle	ICD-9-CM ICD-9-CM	Diagnosis
824.9 827	Unspecified open fracture of ankle Other, multiple, and ill defined fractures of lower limb		Diagnosis
	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	ICD-9-CM	Diagnosis
020	rib(s) and sternum		Diamaria
828	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with	ICD-9-CM	Diagnosis
020.0	rib(s) and sternum		Diamaria
828.0	Multiple closed fractures involving both lower limbs, lower with upper limb, and lower	ICD-9-CM	Diagnosis
000 0	limb(s) with rib(s) and sternum		<b>D</b>
828.0	Multiple closed fractures involving both lower limbs, lower with upper limb, and lower	ICD-9-CM	Diagnosis
	limb(s) with rib(s) and sternum		
828.1	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with	ICD-9-CM	Diagnosis
	rib(s) and sternum, open		
828.1	Multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with	ICD-9-CM	Diagnosis
	rib(s) and sternum, open		
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



Code	Description	Code Type	Code Category
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	ICD-9-CM	Diagnosis
862.9	cavitv 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
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	ICD-9-CM	Diagnosis
863.9	cavity 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
863.91	Pancreas body injury with open wound into cavity	ICD-9-CIM	Diagnosis
863.92	Pancreas body injury with open wound into cavity	ICD-9-CM	Diagnosis
863.93 863.94	Pancreas injury, multiple and unspecified sites, with open wound into cavity	ICD-9-CM	Diagnosis
863.94 863.95	Appendix injury with open wound into cavity	ICD-9-CIM	Diagnosis
000.00	Appendix injury with open would lite cuvity		Diagnosis



Code	Description	Code Type	Code Category
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	Liver laceration, moderate, with open wound into cavity	ICD-9-CM	Diagnosis
864.14	Liver laceration, major, with open wound into cavity	ICD-9-CM	Diagnosis
864.15	Liver injury with open wound into cavity, unspecified laceration	ICD-9-CM	Diagnosis
864.19	Other liver injury with open wound into cavity	ICD-9-CM	Diagnosis
865.1	Spleen injury with open wound into cavity	ICD-9-CM	Diagnosis
865.10	Unspecified spleen injury with open wound into cavity	ICD-9-CM	Diagnosis
865.11	Spleen hematoma, without rupture of capsule, with open wound into cavity	ICD-9-CM	Diagnosis
865.12	Capsular tears to spleen, without major disruption of parenchyma, with open wound into	ICD-9-CM	Diagnosis
	cavity		0
865.13	Spleen laceration extending into parenchyma, with open wound into cavity	ICD-9-CM	Diagnosis
865.14	Massive parenchyma disruption of spleen with open wound into cavity	ICD-9-CM	Diagnosis
865.19	Other spleen injury with open wound into cavity	ICD-9-CM	Diagnosis
866	Injury to kidney	ICD-9-CM	Diagnosis
866.0	Kidney injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
866.00	Unspecified kidney injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
866.01	Kidney hematoma without rupture of capsule or mention of open wound into cavity	ICD-9-CM	Diagnosis
866.02	Kidney laceration without mention of open wound into cavity	ICD-9-CM	Diagnosis
866.03	Complete disruption of kidney parenchyma, without mention of open wound into cavity	ICD-9-CM	Diagnosis
866.1	Kidney injury with open wound into cavity	ICD-9-CM	Diagnosis
866.10	Unspecified kidney injury with open wound into cavity	ICD-9-CM	Diagnosis
866.11	Kidney hematoma, without rupture of capsule, with open wound into cavity	ICD-9-CM	Diagnosis
866.12	Kidney laceration with open wound into cavity	ICD-9-CM	Diagnosis
866.13	Complete disruption of kidney parenchyma, with open wound into cavity	ICD-9-CM	Diagnosis
867	Injury to pelvic organs	ICD-9-CM	Diagnosis
867.0	Bladder and urethra injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.1	Bladder and urethra injury with open wound into cavity	ICD-9-CM	Diagnosis
867.2	Ureter injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.3	Ureter injury with open wound into cavity	ICD-9-CM	Diagnosis
867.4	Uterus injury without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.5	Uterus injury with open wound into cavity	ICD-9-CM	Diagnosis
867.6	Injury to other specified pelvic organs without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.7	Injury to other specified pelvic organs with open wound into cavity	ICD-9-CM	Diagnosis
867.8	Injury to unspecified pelvic organ without mention of open wound into cavity	ICD-9-CM	Diagnosis
867.9	Injury to unspecified pelvic organ with open wound into cavity	ICD-9-CM	Diagnosis
873.0	Open wound of scalp, without mention of complication	ICD-9-CM	Diagnosis
873.1	Open wound of scalp, complicated	ICD-9-CM	Diagnosis
875.0	Open wound of chest (wall), without mention of complication	ICD-9-CM	Diagnosis
875.1	Open wound of chest (wall), complicated	ICD-9-CM	Diagnosis
902.4	Renal blood vessel injury	ICD-9-CM	Diagnosis
902.40	Renal vessel(s) injury, unspecified	ICD-9-CM	Diagnosis
902.41	Renal artery injury	ICD-9-CM	Diagnosis
902.42	Renal vein injury	ICD-9-CM	Diagnosis
902.49	Renal blood vessel injury, other	ICD-9-CM	Diagnosis
902.55	Uterine artery injury	ICD-9-CM	Diagnosis
902.55	Uterine vein injury	ICD-9-CM	Diagnosis
902.50 902.81	Ovarian artery injury	ICD-9-CM	Diagnosis
902.81 902.82	Ovarian vein injury	ICD-9-CM	Diagnosis
502.02	o terrar terringary		Diagnosis



Code	Description	Code Type	Code Category
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
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 other cardiac device, implant, and graft	ICD-9-CM	Diagnosis
996.74	Other complications due to other vascular device, implant, and graft	ICD-9-CM	Diagnosis
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Code	Description	Code Type	Code Category
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	ICD-9-CM	Diagnosis
	perfusion		0
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,	ICD-9-CM	Diagnosis
	puncture, and catheterization		0
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
			0
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
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



Code	Description	Code Type	Code Category
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 inflicted	ICD-9-CM	Diagnosis
E985.0	Injury by handgun, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis
E985.1	Injury by shotgun, undetermined whether accidentally or purposely inflicted	ICD-9-CM	Diagnosis
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	ICD-9-CM	Diagnosis
	inflicted		210210010
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 E. List of Generic and Brand Names of Medical Products Used to Define Exposure Incidence and Censoring Criteria in this Request

Generic Name	Brand Name
Apixaban	
Apixaban	Eliquis
Apixaban	Eliquis DVT-PE Treat 30D Start
Dabigatran	
Dabigatran etexilate mesylate	Pradaxa
Edoxaban	
Edoxaban tosylate	Savaysa
Rivaroxaban	
Rivaroxaban	Xarelto
Rivaroxaban	Xarelto DVT-PE Treat 30d Start
Warfarin	
Warfarin sodium	Warfarin
Warfarin sodium	Coumadin
Warfarin sodium	Jantoven



Appendix F. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and	Current
Procedural Terminology, Fourth Edition (CPT-4) Codes Used to Define Inclusion and Exclusion Criteria in this Req	uest

Code	Description	Code Type	Code Category
Atrial Fil	prillation		
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 Ve	in 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 p	CPT-4	Procedure
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial	CPT-4	Procedure
	revision of dialvsis prescription		
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae	CPT-4	Procedure
	by an indicator dilution method, hook-up; transcutaneous measurement and disconnection		
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae	CPT-4	Procedure
	by an indicator method	0	
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
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other	CPT-4	Procedure
	continuous renal replacement therapies), with single evaluation by a physician or other		
	qualified health care professional		
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other	CPT-4	Procedure
	continuous renal replacement therapies) requiring repeated evaluations by a physician or		Secure
	other qualified health care professional, with or without substantial revision of dialysis		
	nrescription		



Code	Description	Code Type	Code Category
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years	CPT-4	Procedure
	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		
90952	other qualified health care professional per month End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years	CPT-4	Procedure
	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		
00050	auslified health care professional per month	CDT 4	Due ee duure
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years	CPT-4	Procedure
	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		
90954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	CPT-4	Procedure
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 4 or more face-to-face visits by a physician or other		
	qualified health care professional per month		
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	CPT-4	Procedure
	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		
00056	health care professional per month End stage republicance (ESPD) related convises monthly for patients 2-11 years of age to	CDT 4	Procedure
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	CPT-4	Procedure
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month		
90957	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	CPT-4	Procedure
	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		
90958	qualified health care professional per month End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	CPT-4	Procedure
	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		
00050	health care professional per month Find the second discourse (FCPD) related as a size an article for action to 12,10 years of a sector	CDT 4	Descriptions
90959	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	CPT-4	Procedure
	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		
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	CPT-4	Procedure
	older; with 4 or more face-to-face visits by a physician or other qualified health care		
	nrofessional ner month		
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	CPT-4	Procedure
	older; with 2-3 face-to-face visits by a physician or other qualified health care professional		
00000	ner month End stars renel disease (FSPD) related carries monthly, for nationts 20 years of any and	CDT 4	Dressedures
90962	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	CPT-4	Procedure
	older; with 1 face-to-face visit by a physician or other qualified health care professional per month		
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
50500	younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment		ribbeddie
	of growth and development and counseling of parents		
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
	2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth		
	and development and counseling of parents		



Code	Description	Code Type	Code Category
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
	12-19 years of age to include monitoring for the adequacy of nutrition, assessment of		
	growth and development, and counseling of parents		
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
	20 years of age and older		
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
	per day; for patients younger than 2 years of age		<b>.</b> .
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
90969	per day: for patients 2-11 vears of age End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
90909	per day; for patients 12-19 years of age	CF 1-4	FIOLEGUIE
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
50570	per day; for patients 20 years of age and older		rioccuare
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 Mont	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 Pri	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	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
	placement		
V436	Joint replaced by other means	ICD-9-CM	Diagnosis
V4360	Unspecified joint replacement by other means	ICD-9-CM	Diagnosis
V4361	Shoulder joint replacement by other means	ICD-9-CM	Diagnosis
V4362	Elbow joint replacement by other means	ICD-9-CM	Diagnosis
V4363	Wrist joint replacement by other means	ICD-9-CM	Diagnosis
V4364	Hip joint replacement by other means	ICD-9-CM	Diagnosis
V4365	Knee joint replacement by other means	ICD-9-CM	Diagnosis
V4366	Ankle joint replacement by other means	ICD-9-CM	Diagnosis
V4369	Other joint replacement by other means	ICD-9-CM	Diagnosis
81.5	Joint replacement of lower extremity	ICD-9-CM	Diagnosis Dia su a sia
81.51	Total hip replacement	ICD-9-CM	Diagnosis
81.52	Partial hip replacement	ICD-9-CM	Diagnosis
81.53	Revision of hip replacement, not otherwise specified	ICD-9-CM	Diagnosis
81.54	Total knee replacement	ICD-9-CM	Diagnosis
81.55	Revision of knee replacement, not otherwise specified	ICD-9-CM	Diagnosis
81.56	Total ankle replacement	ICD-9-CM	Diagnosis Dia su a sia
81.57	Replacement of joint of foot and toe	ICD-9-CM	Diagnosis
81.59	Revision of joint replacement of lower extremity, not elsewhere classified	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
81.8	Arthroplasty and repair of shoulder and elbow	ICD-9-CM	Diagnosis
81.80	Total shoulder replacement	ICD-9-CM	Diagnosis
81.81	Partial shoulder replacement	ICD-9-CM	Diagnosis
81.82	Repair of recurrent dislocation of shoulder	ICD-9-CM	Diagnosis
81.83	Other repair of shoulder	ICD-9-CM	Diagnosis
81.84	Total elbow replacement	ICD-9-CM	Diagnosis
81.85	Other repair of elbow	ICD-9-CM	Diagnosis
81.88	Reverse total shoulder replacement	ICD-9-CM	Diagnosis
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	CPT-3	Procedure
	plate preparation (includes osteophytectomy for nerve root or spinal cord decompression		
	and microdissection). cervical. three or more levels		
21243	Arthroplasty, temporomandibular joint, with prosthetic joint replacement	CPT-4	Procedure
23472	Arthroplasty, glenohumeral joint; total shoulder (glenoid and proximal humeral replacement	CPT-4	Procedure
24361	Arthroplasty, elbow; with distal humeral prosthetic replacement	CPT-4	Procedure
24363	Arthroplasty, elbow; with distal humerus and proximal ulnar prosthetic replacement (eg, tota	CPT-4	Procedure
24666	Open treatment of radial head or neck fracture, includes internal fixation or radial head	CPT-4	Procedure
	excision, when performed; with radial head prosthetic replacement		
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 wris	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	CPT-4	Procedure
	arthroplasty), with or without autograft or allograft		
27132	Conversion of previous hip surgery to total hip arthroplasty, with or without autograft or allog	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 al	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	CPT-4	Procedure
	patella resurfacing (total knee arthroplasty)		
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 compo	CPT-4	Procedure
L8631	Metacarpal phalangeal joint replacement, 2 or more pieces, metal (e.g., stainless steel or	HCPCS	Procedure
	cobalt chrome), ceramic-like material (e.g., pyrocarbon), for surgical implantation (all sizes,		
	includes entire system)		
L8659	Interphalangeal finger joint replacement, 2 or more pieces, metal (e.g., stainless steel or	HCPCS	Procedure
	cobalt chrome), ceramic-like material (e.g., pyrocarbon) for surgical implantation, any size		
	Replacement	100 0 5	
996.81	Complications of transplanted kidney	ICD-9-CM	Diagnosis
V42	Organ or tissue replaced by transplant	ICD-9-CM	Diagnosis
V420	Kidney replaced by transplant	ICD-9-CM	Diagnosis
55.6	Transplant of kidney	ICD-9-CM	Diagnosis
55.61	Renal autotransplantation	ICD-9-CM	Diagnosis
55.69	Other kidney transplantation	ICD-9-CM	Diagnosis
Mutral Ci	tenosis		

394 Diseases of mitral valve

ICD-9-CM Diagnosis



Code	Description	Code Type	Code Category
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
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
Pulmona	ary Embolism		
4151	Pulmonary embolism and infarction	ICD-9-CM	Diagnosis
41511	latrogenic pulmonary embolism and infarction	ICD-9-CM	Diagnosis
41512	Septic pulmonary embolism	ICD-9-CM	Diagnosis
41519	Other pulmonary embolism and infarction	ICD-9-CM	Diagnosis
Valve Re			
0343T	Transcatheter mitral valve repair percutaneous approach including transseptal puncture whe	CPT-3	Procedure
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 with	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 (separate	CPT-4	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
	placement		
V422	Heart valve replaced by transplant	ICD-9-CM	Diagnosis
V433	Heart valve replaced by other means	ICD-9-CM	Diagnosis
35.2	Replacement of heart valve	ICD-9-CM	Diagnosis
35.20	Replacement of unspecified heart valve	ICD-9-CM	Diagnosis
35.21	Replacement of aortic valve with tissue graft	ICD-9-CM	Diagnosis
35.22	Other replacement of aortic valve	ICD-9-CM	Diagnosis
35.23	Replacement of mitral valve with tissue graft	ICD-9-CM	Diagnosis
35.24	Other replacement of mitral valve	ICD-9-CM	Diagnosis
35.25	Replacement of pulmonary valve with tissue graft	ICD-9-CM	Diagnosis
35.26	Other replacement of pulmonary valve	ICD-9-CM	Diagnosis
35.27	Replacement of tricuspid valve with tissue graft	ICD-9-CM	Diagnosis
35.28	Other replacement of tricuspid valve	ICD-9-CM	Diagnosis
0258T	Transthoracic cardiac exposure (eg, sternotomy, thoracotomy, subxiphoid) for catheter-delive		Procedure
0259T	Transthoracic cardiac exposure (eg, sternotomy, thoracotomy, subxiphoid) for catheter-delive		Procedure
0318T	Implantation of catheter-delivered prosthetic aortic heart valve, open thoracic approach, (eg,	CPT-3	Procedure



Code	Description	Code Type	Code Category
33361	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; percutaneous fem	CPT-4	Procedure
33362	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open femoral arte	CPT-4	Procedure
33363	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open axillary arter	CPT-4	Procedure
33364	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; open iliac artery a	CPT-4	Procedure
33365	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transaortic approa	CPT-4	Procedure
33366	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; transapical exposu	CPT-4	Procedure
33367	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary I	CPT-4	Procedure
33368	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary	CPT-4	Procedure
	bypass support with open peripheral arterial and venous cannulation (eg, femoral, iliac,		
	axillary vessels) (List separately in addition to code for primary procedure)		
33369	Transcatheter aortic valve replacement (TAVR/TAVI) with prosthetic valve; cardiopulmonary	CPT-4	Procedure
	bypass support with central arterial and venous cannulation (eg, aorta, right atrium,		
	pulmonary artery) (List separately in addition to code for primary procedure)		
33405	Replacement, aortic valve, open, with cardiopulmonary bypass; with prosthetic valve other	CPT-4	Procedure
	than homograft or stentless valve		
33406	Replacement, aortic valve, open, with cardiopulmonary bypass; with allograft valve	CPT-4	Procedure
	(freehand)		
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	CPT-4	Procedure
	procedure)		
33413	Replacement, aortic valve; by translocation of autologous pulmonary valve with allograft	CPT-4	Procedure
	replacement of pulmonary valve (Ross procedure)		
33418	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture	CPT-4	Procedure
	when performed; initial prosthesis		
33419	Transcatheter mitral valve repair, percutaneous approach, including transseptal puncture	CPT-4	Procedure
	when performed; additional prosthesis(es) during same session (List separately in addition		
22.426	to code for primary procedure)	<b>CDT</b> 4	
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



Code	Description	Code Type	Code Category
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 p	CPT-4	Procedure
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial	CPT-4	Procedure
	revision of dialvsis prescription		
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae	CPT-4	Procedure
	by an indicator dilution method, hook-up; transcutaneous measurement and disconnection		
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae	CPT-4	Procedure
	by an indicator method		
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
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other	CPT-4	Procedure
	continuous renal replacement therapies), with single evaluation by a physician or other		
	gualified health care professional		
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other	CPT-4	Procedure
	continuous renal replacement therapies) requiring repeated evaluations by a physician or		
	other qualified health care professional, with or without substantial revision of dialysis		
	nrescription		
90951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years	CPT-4	Procedure
	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		
00050	other qualified health care professional per month	CDT 4	Due es duns
90952	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years	CPT-4	Procedure
	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		
00053	nualified health care professional per month		Due ee duure
90953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years	CPT-4	Procedure
	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		
90954	gualified health care professional per month End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	CPT-4	Procedure
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 4 or more face-to-face visits by a physician or other		
	qualified health care professional per month		
90955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	CPT-4	Procedure
	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		



Code	Description	Code Type	Code Category
90956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to	CPT-4	Procedure
	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		
90957	care professional per month End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	CPT-4	Procedure
	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		
90958	qualified health care professional per month End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	CPT-4	Procedure
	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		
90959	health care professional per month End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to	CPT-4	Procedure
	include monitoring for the adequacy of nutrition, assessment of growth and development,		
	and counseling of parents; with 1 face-to-face visit by a physician or other qualified health		
	care professional per month		
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	CPT-4	Procedure
	older; with 4 or more face-to-face visits by a physician or other qualified health care		
00064	nrofessional ner month	CDT 4	Dura e alcuna
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	CPT-4	Procedure
	older; with 2-3 face-to-face visits by a physician or other qualified health care professional		
90962	per month End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and	CPT-4	Procedure
	older; with 1 face-to-face visit by a physician or other qualified health care professional per		
00000	month	CDT 4	Due ee duue
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
	younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment		
90964	of growth and development, and counseling of parents End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
	2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth		
	and development, and counseling of parents		
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
	12-19 years of age to include monitoring for the adequacy of nutrition, assessment of		
90966	growth and development, and counseling of parents End-stage renal disease (ESRD) related services for home dialysis per full month, for patients	CPT-4	Procedure
90967	20 vears of age and older End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
	per day; for patients vounger than 2 years of age		
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
	per day; for patients 2-11 years of age		
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
	per day; for patients 12-19 years of age	00 <b>7</b> /	
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of service,	CPT-4	Procedure
00076	per day; for patients 20 years of age and older	CDT 4	Dressdure
90976 90977	Peritoneal Dialysis For End-stage Renal Disease (esrd), Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4 CPT-4	Procedure Procedure
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4 CPT-4	Procedure
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4 CPT-4	Procedure
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4 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
20205			i i occuric



Code	Description	Code Type	Code Category
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Mont	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 Pri	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	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
<b>Kidney</b> R	eplacement		
996.81	Complications of transplanted kidney	ICD-9-CM	Diagnosis
V42	Organ or tissue replaced by transplant	ICD-9-CM	Diagnosis
V420	Kidney replaced by transplant	ICD-9-CM	Diagnosis
55.6	Transplant of kidney	ICD-9-CM	Diagnosis
55.61	Renal autotransplantation	ICD-9-CM	Diagnosis
55.69	Other kidney transplantation	ICD-9-CM	Diagnosis



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

Code	Description	Code Type	Code Category
-	yocardial Infarction	code rype	code category
410	Acute myocardial infarction	ICD-9-CM	Diagnosis
410.0	Acute myocardial infarction of anterolateral wall	ICD-9-CM	Diagnosis
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	ICD-9-CM	Diagnosis
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	ICD-9-CM	Diagnosis
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.1	Acute myocardial infarction of other anterior wall	ICD-9-CM	Diagnosis
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	ICD-9-CM	Diagnosis
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	ICD-9-CM	Diagnosis
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.2	Acute myocardial infarction of inferolateral wall	ICD-9-CM	Diagnosis
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	ICD-9-CM	Diagnosis
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	ICD-9-CM	Diagnosis
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.3	Acute myocardial infarction of inferoposterior wall	ICD-9-CM	Diagnosis
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	ICD-9-CM	Diagnosis
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	ICD-9-CM	Diagnosis
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.4	Acute myocardial infarction of other inferior wall	ICD-9-CM	Diagnosis
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	ICD-9-CM	Diagnosis
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	ICD-9-CM	Diagnosis
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.5	Acute myocardial infarction of other lateral wall	ICD-9-CM	Diagnosis
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	ICD-9-CM	Diagnosis
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	ICD-9-CM	Diagnosis
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	ICD-9-CM	Diagnosis
410.6	Acute myocardial infarction, true posterior wall infarction	ICD-9-CM	Diagnosis
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	ICD-9-CM	Diagnosis
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	ICD-9-CM	Diagnosis
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	ICD-9-CM	Diagnosis
410.7	Acute myocardial infarction, subendocardial infarction	ICD-9-CM	Diagnosis
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	ICD-9-CM	Diagnosis
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	ICD-9-CM	Diagnosis
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	ICD-9-CM	Diagnosis
410.8	Acute myocardial infarction of other specified sites	ICD-9-CM	Diagnosis
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	ICD-9-CM	Diagnosis
410.81	Acute myocardial infarction of other specified sites, initial episode of care	ICD-9-CM	Diagnosis
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	ICD-9-CM	Diagnosis
410.9	Acute myocardial infarction, unspecified site	ICD-9-CM	Diagnosis
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	ICD-9-CM	Diagnosis
410.91	Acute myocardial infarction, unspecified site, initial episode of care	ICD-9-CM	Diagnosis
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	ICD-9-CM	Diagnosis
	dney Failure		
584	Acute kidney failure	ICD-9-CM	Diagnosis
584.5	Acute kidney failure with lesion of tubular necrosis	ICD-9-CM	Diagnosis
584.6 584.7	Acute kidney failure with lesion of renal cortical necrosis	ICD-9-CM	Diagnosis
584.7 584.8	Acute kidney failure with lesion of medullary [papillary] necrosis Acute kidney failure with other specified pathological lesion in kidney	ICD-9-CM	Diagnosis
J04.0	Acute Kinney failure with other specified pathological lesion in Kinney	ICD-9-CM	Diagnosis



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

Code	Description	Code Type	Code Category
584.9	Acute kidney failure, unspecified	ICD-9-CM	Diagnosis
Anticoag			
C9121	Injection, argatroban, per 5 mg	HCPCS	Procedure
J0583	Injection, bivalirudin, 1 mg	HCPCS	Procedure
J1644	Injection, Heparin sodium, per 1000 units	HCPCS	Procedure
J1645	Injection, dalteparin sodium, per 2500 IU	HCPCS	Procedure
J1650	Injection, enoxaparin sodium, 10 mg	HCPCS	Procedure
J1652	Injection, fondaparinux sodium, 0.5 mg	HCPCS	Procedure
J1655	Injection, tinzaparin sodium, 1000 IU	HCPCS	Procedure
J1945	Injection, lepirudin, 50 mg	HCPCS	Procedure
Cardiac /	Ablation		
37.33	Excision or destruction of other lesion or tissue of heart, open approach	ICD-9-CM	Diagnosis
37.34	Excision or destruction of other lesion or tissue of heart, other approach	ICD-9-CM	Diagnosis
33250	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-Parkinsor	CPT-4	Procedure
33251	Operative ablation of supraventricular arrhythmogenic focus or pathway (eg, Wolff-Parkinsor	CPT-4	Procedure
33254	Operative tissue ablation and reconstruction of atria, limited (eg, modified maze procedure)	CPT-4	Procedure
33255	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); withou	CPT-4	Procedure
33256	Operative tissue ablation and reconstruction of atria, extensive (eg, maze procedure); with ca	CPT-4	Procedure
33257	Operative tissue ablation and reconstruction of atria, performed at the time of other cardiac	CPT-4	Procedure
33258	Operative tissue ablation and reconstruction of atria, performed at the time of other cardiac	CPT-4	Procedure
33259	Operative tissue ablation and reconstruction of atria, performed at the time of other cardiac	CPT-4	Procedure
33261	Operative ablation of ventricular arrhythmogenic focus with cardiopulmonary bypass	CPT-4	Procedure
33265	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, limited (eg, modifie	CPT-4	Procedure
33266	Endoscopy, surgical; operative tissue ablation and reconstruction of atria, extensive (eg, maze	CPT-4	Procedure
93650	Intracardiac catheter ablation of atrioventricular node function, atrioventricular conduction f	CPT-4	Procedure
93651	Intracardiac catheter ablation of arrhythmogenic focus; for treatment of supraventricular tacl	CPT-4	Procedure
93652	Intracardiac catheter ablation of arrhythmogenic focus; for treatment of ventricular tachycard	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	HCPCS	Procedure
C2630	Catheter, electrophysiology, diagnostic/ablation, other than 3D or vector mapping, cool-tip	HCPCS	Procedure
Cardiove	ersion		
99.61	Atrial cardioversion	ICD-9-CM	Diagnosis
99.62	Other electric countershock of heart	ICD-9-CM	Diagnosis
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	Diagnosis
585.1	Chronic kidney disease, Stage I	ICD-9-CM	Diagnosis
585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM	Diagnosis
585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM	Diagnosis
585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM	Diagnosis
585.5	Chronic kidney disease, Stage V	ICD-9-CM	Diagnosis
585.6	End stage renal disease	ICD-9-CM	Diagnosis
585.9	Chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
586	Unspecified renal failure	ICD-9-CM	Diagnosis
500	Unspecified renal sclerosis	ICD-9-CM	Diagnosis
587			
587			
		ICD-9-CM	Diagnosis
587 Coronary	y Revascularization		Diagnosis Diagnosis
587 <b>Coronar</b> V4581	y Revascularization Postprocedural aortocoronary bypass status	ICD-9-CM	



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

Code	Description	Code Type	Code Category
36.0	Removal of coronary artery obstruction and insertion of stent(s)	ICD-9-CM	Diagnosis
36.03	Open chest coronary artery angioplasty	ICD-9-CM	Diagnosis
36.04	Intracoronary artery thrombolytic infusion	ICD-9-CM	Diagnosis
36.06	Insertion of non-drug-eluting coronary artery stent(s)	ICD-9-CM	Diagnosis
36.07	Insertion of drug-eluting coronary artery stent(s)	ICD-9-CM	Diagnosis
36.09	Other removal of coronary artery obstruction	ICD-9-CM	Diagnosis
36.1	Bypass anastomosis for heart revascularization	ICD-9-CM	Diagnosis
36.10	Aortocoronary bypass for heart revascularization, not otherwise specified	ICD-9-CM	Diagnosis
36.11	(Aorto)coronary bypass of one coronary artery	ICD-9-CM	Diagnosis
36.12	(Aorto)coronary bypass of two coronary arteries	ICD-9-CM	Diagnosis
36.13	(Aorto)coronary bypass of three coronary arteries	ICD-9-CM	Diagnosis
36.14	(Aorto)coronary bypass of four or more coronary arteries	ICD-9-CM	Diagnosis
36.15	Single internal mammary-coronary artery bypass	ICD-9-CM	Diagnosis
36.16	Double internal mammary-coronary artery bypass	ICD-9-CM	Diagnosis
36.17	Abdominal-coronary artery bypass	ICD-9-CM	Diagnosis
36.19	Other bypass anastomosis for heart revascularization	ICD-9-CM	Diagnosis
36.2	Heart revascularization by arterial implant	ICD-9-CM	Diagnosis
36.3	Other heart revascularization	ICD-9-CM	Diagnosis
36.31	Open chest transmyocardial revascularization	ICD-9-CM	Diagnosis
36.32	Other transmyocardial revascularization	ICD-9-CM	Diagnosis
36.33	Endoscopic transmyocardial revascularization	ICD-9-CM	Diagnosis
36.34	Percutaneous transmyocardial revascularization	ICD-9-CM	Diagnosis
36.39	Other heart revascularization	ICD-9-CM	Diagnosis
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 pro	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 separ	CPT-4	Procedure
33518	Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separa		Procedure
33519	Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separa		Procedure
33521	Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separa		Procedure
33522	Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separa		Procedure
33523	Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (Li	CPT-4	Procedure
33530	Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after	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); 2 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		Procedure
35500	Harvest of upper extremity vein, 1 segment, for lower extremity or coronary artery bypass pr		Procedure
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	CPT-4	Procedure
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery of branch Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary	CPT-4 CPT-4	Procedure
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performe	CPT-4	Procedure
92924 92925	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performe	CPT-4 CPT-4	Procedure
92923 92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty with performe	CPT-4 CPT-4	Procedure
92928 92929	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty w		Procedure
92929 92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty w		Procedure
92933	recutancous transformation coronary atterectority, with intracoronary stent, with coronary at	CF 1-4	Procedure


Code	Description	Code Type	Code Category
92934	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary an	COde Type CPT-4	Code Category Procedure
92934 92937	Percutaneous transluminal revascularization of or through coronary artery bypass graft (inter	CPT-4 CPT-4	Procedure
92938	Percutaneous transluminal revascularization of or through coronary artery bypass graft (inter	CPT-4	Procedure
92941	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute m	CPT-4	Procedure
92943	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coror	CPT-4	Procedure
92944	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coror	CPT-4	Procedure
92973	Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to	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 th	CPT-4	Procedure
92981	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other th	CPT-4	Procedure
92982	Percutaneous transluminal coronary balloon angioplasty; single vessel	CPT-4	Procedure
92984	Percutaneous transluminal coronary balloon angioplasty; each additional vessel (List separate	CPT-4	Procedure
92995	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or w	CPT-4	Procedure
92996	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or w	CPT-4	Procedure
93540	Injection procedure during cardiac catheterization; for selective opacification of aortocoronar	CPT-4	Procedure
93564	Injection procedure during cardiac catheterization including imaging supervision, interpretati	CPT-4	Procedure
C9600	Percutaneous transcatheter placement of drug eluting intracoronary stent(s), with coronary a	HCPCS	Procedure
C9601	Percutaneous transcatheter placement of drug-eluting intracoronary stent(s), with coronary a	HCPCS	Procedure
C9602	Percutaneous transluminal coronary atherectomy, with drug eluting intracoronary stent, with	HCPCS	Procedure
C9603	Percutaneous transluminal coronary atherectomy, with drug-eluting intracoronary stent, with	HCPCS	Procedure
C9604	Percutaneous transluminal revascularization of or through coronary artery bypass graft (inter	HCPCS	Procedure
C9605	Percutaneous transluminal revascularization of or through coronary artery bypass graft (inter	HCPCS	Procedure
C9606	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute m	HCPCS	Procedure
C9607	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coror	HCPCS	Procedure
C9608	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coror	HCPCS	Procedure
G0290	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or with	HCPCS	Procedure
G0291	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or with	HCPCS	Procedure
G8158	Patient documented to have received coronary artery bypass graft with use of internal mamn	HCPCS	Procedure
G8159	Patient documented to have received coronary artery bypass graft without use of internal ma	HCPCS	Procedure
G8161	Patient with isolated coronary artery bypass graft documented to have received pre-operativ	HCPCS	Procedure
G8162	Patient with isolated coronary artery bypass graft not documented to have received preoperative	HCPCS	Procedure
G8163	Clinician documented that patient with isolated coronary artery bypass graft was not an eligit	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 intubat	HCPCS	Procedure
G8166	Patient with isolated coronary artery bypass graft documented to have required surgical re-ex	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 as	HCPCS	Procedure
G8171	Patient with isolated coronary artery bypass graft not documented to have been discharged c	HCPCS	Procedure
G8172	Clinician documented that patient with isolated coronary artery bypass graft was not an eligit	HCPCS	Procedure
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 I		Diagnosis
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncor	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
250.1	Diabetes with ketoacidosis	ICD-9-CM	Diagnosis
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM	Diagnosis
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM	Diagnosis
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM	Diagnosis



256 13         Diabetes with ketoacidois, type I [juvenile type], uncontrolled         ICD 9 CM         Diagnosis           250.2         Diabetes with hyperosmolarity, type I or unspecified type, not stated as uncontrolled         ICD 9 CM         Diagnosis           250.2         Diabetes with hyperosmolarity, type I or unspecified type, not stated as uncontrolled         ICD 9 CM         Diagnosis           250.2         Diabetes with hyperosmolarity, type I or unspecified type, uncontrolled         ICD 9 CM         Diagnosis           250.3         Diabetes with other coma, type I juvenile type], uncontrolled         ICD 9 CM         Diagnosis           250.3         Diabetes with other coma, type I juvenile type], uncontrolled         ICD 9 CM         Diagnosis           250.3         Diabetes with other coma, type I juvenile type], uncontrolled         ICD 9 CM         Diagnosis           250.3         Diabetes with renal manifestations, type I or unspecified type, uncontrolled         ICD 9 CM         Diagnosis           250.4         Diabetes with renal manifestations, type I or unspecified type, uncontrolled         ICD 9 CM         Diagnosis           250.4         Diabetes with ophthalmic manifestations, type I or unspecified type, uncontrolled         ICD 9 CM         Diagnosis           250.5         Diabetes with ophthalmic manifestations, type I or unspecified type, uncontrolled         ICD 9 CM         Diagnosis	Code	Description	Code Type	Code Category
250.2Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.21Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.22Diabetes with hyperosmolarity, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.23Diabetes with hyperosmolarity, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.30Diabetes with other coma, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.31Diabetes with other coma, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.32Diabetes with other coma, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.33Diabetes with enal manifestations, type II unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.41Diabetes with enal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.42Diabetes with enal manifestations, type II unspecified type, uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type II unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with ophthalmic manifestations, type II unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with ophthalmic manifestations, type II unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with ophthalmic manifestations, type II unspecified type, not stated as uncontrolledICD-9-CMDiagnosis				
250.20Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.21Diabetes with hyperosmolarity, type II usenile type], not stated as uncontrolledICD-9-CMDiagnosis250.32Diabetes with hyperosmolarity, type II gruenile type], uncontrolledICD-9-CMDiagnosis250.33Diabetes with other coma, type II gruenile type], uncontrolledICD-9-CMDiagnosis250.30Diabetes with other coma, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.31Diabetes with other coma, type II gruenile type], uncontrolledICD-9-CMDiagnosis250.32Diabetes with other coma, type II gruenile type], uncontrolledICD-9-CMDiagnosis250.43Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.44Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.45Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.45Diabetes with nemal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.55Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.55Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.55Diabetes with neurological manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.56Diabetes with neurolo				-
250.21Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolledICD-9-CMDiagnosis250.23Diabetes with hyperosmolarity, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.30Diabetes with other comaICD-9-CMDiagnosis250.31Diabetes with other coma, type I [juvenile type], not stated as uncontrolledICD-9-CMDiagnosis250.32Diabetes with other coma, type I [juvenile type], not stated as uncontrolledICD-9-CMDiagnosis250.33Diabetes with other coma, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.40Diabetes with renal manifestationsICD-9-CMDiagnosis250.41Diabetes with renal manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.42Diabetes with renal manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.43Diabetes with renal manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.44Diabetes with renal manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.55Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.52Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolledICD-9-CMDiagnosis <t< td=""><td></td><td></td><td></td><td></td></t<>				
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250.23Diabetes with hyperosmolarity, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.30Diabetes with other coma, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.31Diabetes with other coma, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.32Diabetes with other coma, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.33Diabetes with other coma, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.44Diabetes with renal manifestationsICD-9-CMDiagnosis250.45Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.44Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.45Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.50Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with neurological manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.52Diabetes with neurolog				-
250.3Diabetes with other comaCD-9-CMDiagnosis250.30Diabetes with other coma, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.31Diabetes with other coma, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.32Diabetes with other coma, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.41Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.42Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.42Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.43Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.50Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.52Diabetes with neurological manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.61Diabetes with neurological manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.62Diabetes with neurological manifestations, type II unspecified type, uncontrolledICD-9-CMDiagnosis				
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250.31Diabetes with other coma, type I [juvenile type], not stated as uncontrolledICD-9-CMDiagnosis250.32Diabetes with other coma, type I [juvenile type], uncontrolledICD-9-CMDiagnosis250.4Diabetes with renal manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.4Diabetes with renal manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.41Diabetes with renal manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.42Diabetes with renal manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.50Diabetes with ophthalmic manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.51Diabetes with ophthalmic manifestations, type I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.52Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolledICD-9-CMDiagnosis250.61Diabetes with neurological manifestations, type I I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.62Diabetes with neurological manifestations, type I I or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.63Diabetes with neurological manifestations, type I I unspecified type, not stated as uncontrolledICD-9-CMDiagn				-
250.32Diabetes with other coma, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.4Diabetes with renal manifestationsICD-9-CMDiagnosis250.4Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.4Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.4Diabetes with renal manifestations, type II juvenile type], uncontrolledICD-9-CMDiagnosis250.5Diabetes with renal manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.5Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.5Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.5Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.6Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.6Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.6Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolledICD-9-CMDiagnosis250.7Diabetes with neurological manifestations, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.7Diabetes with neurological manifestations, type II urunite type], uncontrolledI				
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250.91Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolledICD-9-CMDiagnosis250.92Diabetes with unspecified complication, type II or unspecified type, uncontrolledICD-9-CMDiagnosis250.93Diabetes with unspecified complication, type I [juvenile type], uncontrolledICD-9-CMDiagnosisA5500For diabetics only, fitting (including follow-up), custom preparation and supply of off-the-shellHCPCSProcedureA5501For diabetics only, fitting (including follow-up), custom preparation and supply of shoe moldeHCPCSProcedureA5503For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5504For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5505For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5505For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5506For diabetics only, not otherwise specified modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5507For diabetics only, deluxe feature of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5508For diabetics only, direct formed, compression molded to patient's foot without external heatHCPCSProcedureA5509For diabetics only, direct formed, compression molded to patient's foot without external heatHCPCSProcedu	250.9	Diabetes with unspecified complication	ICD-9-CM	Diagnosis
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A5503For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5504For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5505For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5506For diabetics only, modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5507For diabetics only, not otherwise specified modification (including fitting) of off-the-shelf depth-inlay shoe or customHCPCSProcedureA5508For diabetics only, deluxe feature of off-the-shelf depth-inlay shoe or custom molded shoe, pHCPCSProcedureA5510For diabetics only, direct formed, compression molded to patient's foot without external heatHCPCSProcedure				Procedure
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A5508For diabetics only, deluxe feature of off-the-shelf depth-inlay shoe or custom molded shoe, pHCPCSProcedureA5510For diabetics only, direct formed, compression molded to patient's foot without external heatHCPCSProcedure				Procedure
A5510 For diabetics only, direct formed, compression molded to patient's foot without external heat HCPCS Procedure				Procedure
				Procedure
A5512 For diabetics only, multiple density insert, direct formed, molded to foot after external heat s HCPCS Procedure				
	A5512	For diabetics only, multiple density insert, direct formed, molded to foot after external heat s	HCPCS	Procedure



Code	Description		Code Category
A5513	For diabetics only, multiple density insert, custom molded from model of patient's foot, total	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 mir	HCPCS	Procedure
G0245	Initial physician evaluation and management of a diabetic patient with diabetic sensory neuro		Procedure
G0246	Follow-up physician evaluation and management of a diabetic patient with diabetic sensory n	HCPCS	Procedure
G0247	Routine foot care by a physician of a diabetic patient with diabetic sensory neuropathy result	HCPCS	Procedure
G8015	Diabetic patient with most recent hemoglobin A1c level (within the last 6 months) documente	HCPCS	Procedure
G8016	Diabetic patient with most recent hemoglobin A1c level (within the last 6 months) documente	HCPCS	Procedure
G8017	Clinician documented that diabetic patient was not eligible candidate for hemoglobin A1c me	HCPCS	Procedure
G8018	Clinician has not provided care for the diabetic patient for the required time for hemoglobin <i>i</i>	HCPCS	Procedure
G8019	Diabetic patient with most recent low-density lipoprotein (within the last 12 months) docume	HCPCS	Procedure
G8020	Diabetic patient with most recent low-density lipoprotein (within the last 12 months) docume		Procedure
G8021	Clinician documented that diabetic patient was not eligible candidate for low-density lipoprot	HCPCS	Procedure
G8022	Clinician has not provided care for the diabetic patient for the required time for low-density li	HCPCS	Procedure
G8023	Diabetic patient with most recent blood pressure (within the last 6 months) documented as e	HCPCS	Procedure
G8024	Diabetic patient with most recent blood pressure (within the last 6 months) documented as le		Procedure
G8025	Clinician documented that the diabetic patient was not eligible candidate for blood pressure I	HCPCS	Procedure
G8026	Clinician has not provided care for the diabetic patient for the required time for blood pressu	HCPCS	Procedure
G8332	Clinician has not provided care for the diabetic retinopathy patient for the required time for r	HCPCS	Procedure
G8333	Patient documented to have had findings of macular or fundus exam communicated to the pl	HCPCS	Procedure
G8334	Documentation of findings of macular or fundus exam not communicated to the physician $m_{\tilde{e}}$		Procedure
G8335	Clinician documentation that patient was not an eligible candidate for the findings of their ma	HCPCS	Procedure
G8336	Clinician has not provided care for the diabetic retinopathy patient for the required time for $\mu$	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 month	HCPCS	Procedure
G8390	Diabetic patients with no documentation of blood pressure measurement (within the last 12	HCPCS	Procedure
Falls			
E880	Accidental fall on or from stairs or steps	ICD-9-CM	Diagnosis
E8800	Accidental fall on or from escalator	ICD-9-CM	Diagnosis
E8801	Accidental fall on or from sidewalk curb	ICD-9-CM	Diagnosis
E8809	Accidental fall on or from other stairs or steps	ICD-9-CM	Diagnosis
E881	Accidental fall on or from ladders or scaffolding	ICD-9-CM	Diagnosis
E8810	Accidental fall from ladder	ICD-9-CM	Diagnosis
E8811	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
E8830	Accident from diving or jumping into water (swimming pool)	ICD-9-CM	Diagnosis
E8831	Accidental fall into well	ICD-9-CM	Diagnosis
E8832	Accidental fall into storm drain or manhole	ICD-9-CM	Diagnosis
E8839	Accidental fall into other hole or other opening in surface	ICD-9-CM	Diagnosis
E884	Other accidental fall from one level to another	ICD-9-CM	Diagnosis
E8840	Accidental fall from playground equipment	ICD-9-CM	Diagnosis
E8841	Accidental fall from cliff	ICD-9-CM	Diagnosis
E8842	Accidental fall from chair	ICD-9-CM	Diagnosis
E8843	Accidental fall from wheelchair	ICD-9-CM	Diagnosis
E8844	Accidental fall from bed	ICD-9-CM	Diagnosis
E8845	Accidental fall from other furniture	ICD-9-CM	Diagnosis
E8846	Accidental fall from commode	ICD-9-CM	Diagnosis
E8849	Other accidental fall from one level to another	ICD-9-CM	Diagnosis
E885	Accidental fall on same level from slipping, tripping, or stumbling	ICD-9-CM	Diagnosis
E8850	Fall on same level from (nonmotorized) scooter	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
E8851	Fall from roller skates	ICD-9-CM	Diagnosis
E8852	Fall from skateboard	ICD-9-CM	Diagnosis
E8853	Fall from skis	ICD-9-CM	Diagnosis
E8854	Fall from snowboard	ICD-9-CM	Diagnosis
E8859	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
E8860	Accidental fall on same level from collision, pushing, or shoving, by or with other person in sp	ICD-9-CM	Diagnosis
E8869	Other and unspecified accidental falls on same level from collision, pushing, or shoving, by or	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
E8880	Fall resulting in striking against sharp object	ICD-9-CM	Diagnosis
E8881	Fall resulting in striking against other object	ICD-9-CM	Diagnosis
E8888	Other fall	ICD-9-CM	Diagnosis
E8889	Unspecified fall	ICD-9-CM	Diagnosis
E9176	Strike against or struck accidentally by crowd, by collective fear or panic with subsequent fall	ICD-9-CM	Diagnosis
E9177	Strike against or struck accidentally by furniture with subsequent fall	ICD-9-CM	Diagnosis
E9178	Strike against or struck accidentally by other stationary object with subsequent fall	ICD-9-CM	Diagnosis
E9179	Other accident caused by striking against or being struck accidentally by objects or persons	ICD-9-CM	Diagnosis
E9293	Late effects of accidental fall	ICD-9-CM	Diagnosis
Fracture		100 5 6111	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
807.12	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
807.10	Open fracture of seven ribs	ICD-9-CM	Diagnosis
807.18	Open fracture of eight or more ribs	ICD-9-CM	Diagnosis
807.18	Open fracture of multiple ribs, unspecified	ICD-9-CM	-
810	Fracture of clavicle	ICD-9-CM	Diagnosis
810 810.0	Closed fracture of clavicle	ICD-9-CIVI	Diagnosis
810.0 810.00	Unspecified part of closed fracture of clavicle	ICD-9-CIVI	Diagnosis
			Diagnosis
810.01 810.02	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



CodeDescriptionCode Category810.12Open fracture of shart of clavicleICD-9-CMDiagnosis813.13Fracture of shart of clavicleICD-9-CMDiagnosis813.14Other of radius and ulnaICD-9-CMDiagnosis813.00Unspecified fracture of or radius and ulnaICD-9-CMDiagnosis813.00Closed fracture of oronoid process of ulnaICD-9-CMDiagnosis813.01Closed fracture of oronoid process of ulnaICD-9-CMDiagnosis813.02Closed fracture of oronoid process of ulnaICD-9-CMDiagnosis813.03Closed fracture of oronoid process of ulnaICD-9-CMDiagnosis813.04Closed fracture of and of radiusICD-9-CMDiagnosis813.05Closed fracture of and of radiusICD-9-CMDiagnosis813.06Closed fracture of neck of radiusICD-9-CMDiagnosis813.07Other and unspecified closed fractures of proximal end of radius (alone)ICD-9-CMDiagnosis813.10Open fracture of upper end of fradius and ulnaICD-9-CMDiagnosis813.11Open fracture of open end of radius and ulnaICD-9-CMDiagnosis813.12Open fracture of open end of radius and ulnaICD-9-CMDiagnosis813.13Open fracture of open radius end of radiusICD-9-CMDiagnosis813.14Other and unspecified open fractures of proximal end of radius (alone)ICD-9-CMDiagnosis813.13Open fracture of shaft of radius on ulnaICD-9-CMDiagnosis <th></th> <th></th> <th></th> <th></th>				
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813.50Unspecified open fracture of lower end of forearmICD-9-CMDiagnosis813.51Open Colles' fractureICD-9-CMDiagnosis813.52Other open fractures of distal end of radius (alone)ICD-9-CMDiagnosis813.53Open fracture of distal end of ulna (alone)ICD-9-CMDiagnosis813.54Open fracture of lower end of radius with ulnaICD-9-CMDiagnosis813.8Closed fracture of unspecified part of radius with ulnaICD-9-CMDiagnosis813.80Closed fracture of unspecified part of forearmICD-9-CMDiagnosis	813.47	Torus fracture of radius and ulna	ICD-9-CM	Diagnosis
813.51Open Colles' fractureICD-9-CMDiagnosis813.52Other open fractures of distal end of radius (alone)ICD-9-CMDiagnosis813.53Open fracture of distal end of ulna (alone)ICD-9-CMDiagnosis813.54Open fracture of lower end of radius with ulnaICD-9-CMDiagnosis813.8Closed fracture of unspecified part of radius with ulnaICD-9-CMDiagnosis813.80Closed fracture of unspecified part of forearmICD-9-CMDiagnosis	813.5	Open fracture of lower end of radius and ulna	ICD-9-CM	Diagnosis
813.52Other open fractures of distal end of radius (alone)ICD-9-CMDiagnosis813.53Open fracture of distal end of ulna (alone)ICD-9-CMDiagnosis813.54Open fracture of lower end of radius with ulnaICD-9-CMDiagnosis813.8Closed fracture of unspecified part of radius with ulnaICD-9-CMDiagnosis813.80Closed fracture of unspecified part of forearmICD-9-CMDiagnosis	813.50	Unspecified open fracture of lower end of forearm	ICD-9-CM	Diagnosis
813.53Open fracture of distal end of ulna (alone)ICD-9-CMDiagnosis813.54Open fracture of lower end of radius with ulnaICD-9-CMDiagnosis813.8Closed fracture of unspecified part of radius with ulnaICD-9-CMDiagnosis813.80Closed fracture of unspecified part of forearmICD-9-CMDiagnosis	813.51	Open Colles' fracture	ICD-9-CM	Diagnosis
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813.8Closed fracture of unspecified part of radius with ulnaICD-9-CMDiagnosis813.80Closed fracture of unspecified part of forearmICD-9-CMDiagnosis	813.53	Open fracture of distal end of ulna (alone)	ICD-9-CM	
813.8Closed fracture of unspecified part of radius with ulnaICD-9-CMDiagnosis813.80Closed fracture of unspecified part of forearmICD-9-CMDiagnosis	813.54	Open fracture of lower end of radius with ulna	ICD-9-CM	Diagnosis
813.80 Closed fracture of unspecified part of forearm ICD-9-CM Diagnosis	813.8	Closed fracture of unspecified part of radius with ulna	ICD-9-CM	
	813.80	Closed fracture of unspecified part of forearm	ICD-9-CM	
	813.81	Closed fracture of unspecified part of radius (alone)	ICD-9-CM	



Code	Description	Code Turco	Code Catagory
813.82	Closed fracture of unspecified part of ulna (alone)	ICD-9-CM	Code Category Diagnosis
813.82	Closed fracture of unspecified part of radius with ulna	ICD-9-CIVI	
813.85	Open fracture of unspecified part of radius with ulna	ICD-9-CIVI	Diagnosis Diagnosis
813.90	Open fracture of unspecified part of forearm	ICD-9-CM	Diagnosis
813.90 813.91	Open fracture of unspecified part of radius (alone)	ICD-9-CM	Diagnosis
813.91	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
820.00	Closed fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.01	Closed fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.02	Closed fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.05	Other closed transcervical fracture of femur	ICD-9-CM	Diagnosis
820.05	Open transcervical fracture	ICD-9-CM	Diagnosis
820.10	Open fracture of unspecified intracapsular section of neck of femur	ICD-9-CM	Diagnosis
820.10 820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	ICD-9-CM	Diagnosis
820.11	Open fracture of midcervical section of femur	ICD-9-CM	Diagnosis
820.12	Open fracture of base of neck of femur	ICD-9-CM	Diagnosis
820.13 820.19	Other open transcervical fracture of femur	ICD-9-CM	Diagnosis
820.19	Closed pertrochanteric fracture of femur	ICD-9-CM	
820.2	Closed fracture of unspecified trochanteric section of femur	ICD-9-CIVI	Diagnosis
820.20 820.21	Closed fracture of intertrochanteric section of femur	ICD-9-CIVI	Diagnosis
820.21	Closed fracture of subtrochanteric section of femur	ICD-9-CIVI	Diagnosis
820.22	Open pertrochanteric fracture of femur	ICD-9-CIVI	Diagnosis
820.30	Open fracture of unspecified trochanteric section of femur	ICD-9-CM	Diagnosis
820.30 820.31	Open fracture of intertrochanteric section of femur	ICD-9-CIVI	Diagnosis
820.31	Open fracture of subtrochanteric section of femur	ICD-9-CM	Diagnosis
820.32	Closed fracture of unspecified part of neck of femur	ICD-9-CM	Diagnosis
820.8 820.9	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	Diagnosis
78.13	Application of external fixator device, scapula, clavice, and thorax [hos and sternam]	ICD-9-CM	Diagnosis Diagnosis
78.15	Application of external fixator device, femur	ICD-9-CM	Diagnosis
78.15 78.41	Other repair or plastic operations on scapula, clavicle, and thorax (ribs and sternum)	ICD-9-CM	
78.43	Other repair or plastic operations on radius and ulna	ICD-9-CM	Diagnosis Diagnosis
78.45 78.45	Other repair or plastic operations on femur	ICD-9-CIVI	-
78.45 78.51	Internal fixation of scapula, clavicle, and thorax (ribs and sternum) without fracture reduction		Diagnosis
78.53	Internal fixation of radius and ulna without fracture reduction	ICD-9-CM	Diagnosis
78.55	Internal fixation of femur without fracture reduction	ICD-9-CM	Diagnosis
78.61	Removal of implanted device from scapula, clavicle, and thorax (ribs and sternum)	ICD-9-CM	Diagnosis Diagnosis
78.63	Removal of implanted device from radius and ulna	ICD-9-CM	
78.65	Removal of implanted device from femur	ICD-9-CM	Diagnosis Diagnosis
79.02	Closed reduction of fracture of radius and ulna without internal fixation	ICD-9-CM	-
79.02	Closed reduction of fracture of femur without internal fixation	ICD-9-CM	Diagnosis
79.03 79.12	Closed reduction of fracture of radius and ulna with internal fixation	ICD-9-CIVI	Diagnosis
79.12 79.15	Closed reduction of fracture of femur with internal fixation	ICD-9-CIVI	Diagnosis
79.15 79.22		ICD-9-CIVI	Diagnosis
79.22 79.25	Open reduction of fracture of radius and ulna without internal fixation		Diagnosis
79.25 79.32	Open reduction of fracture of femur without internal fixation	ICD-9-CM ICD-9-CM	Diagnosis
79.32 79.35	Open reduction of fracture of radius and ulna with internal fixation		Diagnosis
79.35 79.62	Open reduction of fracture of femur with internal fixation	ICD-9-CM ICD-9-CM	Diagnosis
19.02	Debridement of open fracture of radius and ulna	100-9-0101	Diagnosis



Code	Description	Code Type	Code Category
79.65	Debridement of open fracture of femur	ICD-9-CM	Diagnosis
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 implan	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
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 manipula	CPT-4	Procedure
25606	Insertion of hardware to lower forearm bone broken or growth plate separation, accessed the		Procedure
25607	Open treatment of broken or lower forearm bone or growth plate separation with insertion c	CPT-4	Procedure
25608	Open treatment of broken of lower forearm or growth plate separation with insertion of harc		Procedure
25609	Open treatment of broken of lower forearm or growth plate separation with insertion of harc		Procedure
25611	Percutaneous skeletal fixation of distal radial fracture (eg, colles or smith type) or epiphyseal	CPT-4	Procedure
25620	Open treatment of distal radial fracture (eg, colles or smith type) or epiphyseal separation, w	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
27230	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedure
2,240	closed deather of broken angli bone with manipulation		indequie



Code	Description	Code Type	Code Category
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	Procedure
27269	Open treatment of fracture of thigh bone	CPT-4	Procedure
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	Procedure
27503	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedure
27506	Open treatment of broken thigh bone	CPT-4	Procedure
27507	Open treatment of broken thigh bone	CPT-4	Procedure
27508	Closed treatment of broken thigh bone	CPT-4	Procedure
27509	Insertion of hardware to stabilize broken thigh bone or separated growth plate, accessed thro	CPT-4	Procedure
27510	Closed treatment of broken thigh bone with manipulation	CPT-4	Procedure
27511	Open treatment of broken thigh bone	CPT-4	Procedure
27513	Open treatment of broken thigh bone	CPT-4	Procedure
27514	Open treatment of broken thigh bone	CPT-4	Procedure

Heart Fa	ilure		
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnosis
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic	ICD-9-CM	Diagnosis
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic	ICD-9-CM	Diagnosis
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kid	ICD-9-CM	Diagnosis
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney	ICD-9-CM	Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chron	ICD-9-CM	Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kic	ICD-9-CM	Diagnosis
428	Heart failure	ICD-9-CM	Diagnosis
428.0	Congestive heart failure, unspecified	ICD-9-CM	Diagnosis
428.1	Left heart failure	ICD-9-CM	Diagnosis
428.2	Systolic heart failure	ICD-9-CM	Diagnosis
428.20	Unspecified systolic heart failure	ICD-9-CM	Diagnosis
428.21	Acute systolic heart failure	ICD-9-CM	Diagnosis
428.22	Chronic systolic heart failure	ICD-9-CM	Diagnosis
428.23	Acute on chronic systolic heart failure	ICD-9-CM	Diagnosis
428.3	Diastolic heart failure	ICD-9-CM	Diagnosis
428.30	Unspecified diastolic heart failure	ICD-9-CM	Diagnosis
428.31	Acute diastolic heart failure	ICD-9-CM	Diagnosis
428.32	Chronic diastolic heart failure	ICD-9-CM	Diagnosis
428.33	Acute on chronic diastolic heart failure	ICD-9-CM	Diagnosis
428.4	Combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.40	Unspecified combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.41	Acute combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.42	Chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.43	Acute on chronic combined systolic and diastolic heart failure	ICD-9-CM	Diagnosis
428.9	Unspecified heart failure	ICD-9-CM	Diagnosis
37.66	Insertion of implantable heart assist system	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
33980	Removal of ventricular assist device, implantable intracorporeal, single ventricle	CPT-4	Procedure
92970	Cardioassist-method of circulatory assist; internal	CPT-4	Procedure
92971	Cardioassist-method of circulatory assist; external	CPT-4	Procedure
G8027	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on eit		Procedure
G8028	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be o	HCPCS	Procedure
G8029	Clinician documented that heart failure patient was not an eligible candidate for either angio		Procedure
G8030	Heart failure patient with left ventricular systolic dysfunction (LVSD) documented to be on be		Procedure
G8031	Heart failure patient with left ventricular systolic dysfunction (LVSD) not documented to be o	HCPCS	Procedure
G8032	Clinician documented that heart failure patient was not eligible candidate for beta-blocker th	HCPCS	Procedure
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible (		Procedure
G8184	Clinician documented that patient with heart failure and atrial fibrillation was not an eligible of		Procedure
	zed Bleeding		
280.0	Iron deficiency anemia secondary to blood loss (chronic)	ICD-9-CM	Diagnosis
285.1	Acute posthemorrhagic anemia	ICD-9-CM	Diagnosis
285.9	Unspecified anemia	ICD-9-CM	Diagnosis
423.0	Hemopericardium	ICD-9-CM	Diagnosis
430	Subarachnoid hemorrhage	ICD-9-CM	Diagnosis
431	Intracerebral 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
455	Hemorrhoids	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
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



Code	Description	Code Type	Code Category
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 ob	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 obstru	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, o	ICD-9-CM	Diagnosis
531.91	Gastric ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforation	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
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	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
532.9	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforati	ICD-9-CM	Diagnosis
532.90	Duodenal ulcer, unspecified as acute or chronic, without hemorrhage, perforation, or obstruc	ICD-9-CM	Diagnosis
532.91	Duodenal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perforati	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
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
533.11	Acute peptic ulcer, unspecified site, with perforation 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 ok		Diagnosis
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 obstruct		Diagnosis
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with ok		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 ol		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 ob		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, witho		Diagnosis
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstr		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 obstru		Diagnosis
533.71	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with (		Diagnosis
533.9	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhag		Diagnosis
533.90	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhag		Diagnosis
533.91	Peptic ulcer, unspecified site, unspecified as acute or chronic, without mention of hemorrhag		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
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM	Diagnosis
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 mentior		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 perfo		Diagnosis
534.90	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage, perfora		Diagnosis
534.91	Gastrojejunal ulcer, unspecified as acute or chronic, without mention of hemorrhage or perfo		Diagnosis
535.00	Acute gastritis without mention of hemorrhage	ICD-9-CM	Diagnosis
535.01	Acute gastritis with hemorrhage	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
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
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



		Codo Tura	Codo Cotogomi
<u>Code</u> 852.00	<b>Description</b> Subarachnoid hemorrhage following injury, without mention of open intracranial wound, uns		Code Category
852.00 852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, uns		Diagnosis
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, hor		Diagnosis
852.02 852.03			Diagnosis
852.05 852.04	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, mo	ICD-9-CM	Diagnosis
852.04 852.05	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, pro Subarachnoid hemorrhage following injury, without mention of open intracranial wound, pro		Diagnosis
852.05 852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, pro		Diagnosis
852.00 852.09			Diagnosis
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, uns Subdural hemorrhage following injury without mention of open intracranial wound	ICD-9-CIM	Diagnosis
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecif		Diagnosis
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecific Subdural hemorrhage following injury, without mention of open intracranial wound, no loss c		Diagnosis
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, ho loss c		Diagnosis
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, bher fies		Diagnosis
852.25 852.24			Diagnosis
852.24 852.25	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonge		Diagnosis
852.25 852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonge		Diagnosis
	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of c		Diagnosis
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecif		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, unspec		Diagnosis
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss		Diagnosis
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (I		Diagnosis
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moder		Diagnosis
852.44	Extradural hemorrhage following injury, without mention of open intracranial wound, prolon		Diagnosis
852.45	Extradural hemorrhage following injury, without mention of open intracranial wound, prolon		Diagnosis
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of		Diagnosis
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspec		Diagnosis
853.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intu	ICD-9-CM	Diagnosis
	olesterolemia	ICD-9-CM	Diagnasia
272.0 272.2	Pure hypercholesterolemia	ICD-9-CM	Diagnosis
	Mixed hyperlipidemia	ICD-9-CIVI	Diagnosis
Hyperter 401	Essential hypertension	ICD-9-CM	Diagnosis
401.0	Essential hypertension, malignant	ICD-9-CM	Diagnosis
401.0 401.1	Essential hypertension, benign	ICD-9-CM	Diagnosis
401.1	Unspecified essential hypertension	ICD-9-CM	Diagnosis
401.9 402		ICD-9-CM	Diagnosis
402 402.0	Hypertensive heart disease Malignant hypertensive heart disease	ICD-9-CIVI	Diagnosis
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.00 402.01		ICD-9-CIM	Diagnosis
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CIVI	Diagnosis
	Benign hypertensive heart disease		Diagnosis
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM	Diagnosis
402.9	Unspecified hypertensive heart disease	ICD-9-CM	Diagnosis
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM	Diagnosis
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM	Diagnosis
403	Hypertensive chronic kidney disease	ICD-9-CM	Diagnosis
403.0	Hypertensive chronic kidney disease, malignant	ICD-9-CM	Diagnosis
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through s		Diagnosis
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end st		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 stag	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage		Diagnosis
403.9	Hypertensive chronic kidney disease, unspecified	ICD-9-CM	Diagnosis
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through		Diagnosis
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end	ICD-9-CM	Diagnosis
404	Hypertensive heart and chronic kidney disease	ICD-9-CM	Diagnosis
404.0	Hypertensive heart and chronic kidney disease, malignant	ICD-9-CM	Diagnosis
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chro		Diagnosis
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic		Diagnosis
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chro		Diagnosis
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic		Diagnosis
404.1	Hypertensive heart and chronic kidney disease, benign	ICD-9-CM	Diagnosis
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic		Diagnosis
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kid		Diagnosis
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic		Diagnosis
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney	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 ch		Diagnosis
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chron		Diagnosis
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with ch		Diagnosis
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kic		Diagnosis
405	Secondary hypertension	ICD-9-CM	Diagnosis
405.0	Secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.01	Secondary renovascular hypertension, malignant	ICD-9-CM	Diagnosis
405.09	Other secondary hypertension, malignant	ICD-9-CM	Diagnosis
405.1	Secondary hypertension, benign	ICD-9-CM	Diagnosis
405.11	Secondary renovascular hypertension, benign	ICD-9-CM	Diagnosis
405.19	Other secondary hypertension, benign	ICD-9-CM	Diagnosis
405.9	Unspecified secondary hypertension, unspecified	ICD-9-CM	Diagnosis
405.91	Secondary renovascular hypertension, unspecified	ICD-9-CM	Diagnosis
405.99	Other secondary hypertension, unspecified	ICD-9-CM	Diagnosis
997.91	Hypertension	ICD-9-CM	Diagnosis
	Dependency		Didgitosis
305.1	Nondependent tobacco use disorder	ICD-9-CM	Diagnosis
989.84	Toxic effect of tobacco	ICD-9-CM	Diagnosis
V1582	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	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, §	HCPCS	Procedure
C9802	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, grea	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	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, §	HCPCS	Procedure
G0437	Smoking and tobacco cessation counseling visit for the asymptomatic patient; intensive, grea	HCPCS	Procedure
G8093	Newly diagnosed chronic obstructive pulmonary disease (COPD) patient documented to have	HCPCS	Procedure
G8094	Newly diagnosed chronic obstructive pulmonary disease (COPD) patient not documented to k	HCPCS	Procedure
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



Code         Description         Code Category,           05890         Current tobacco smoker or current exposure to secondhand smoke         HCPCS         Procedure           05976         Documentation that patient is a current tobacco user         HCPCS         Procedure           05817         Documentation that patient is a current tobacco user         HCPCS         Procedure           05819         Current tobacco user and received tobacco cessation intervention (must inclu         HCPCS         Procedure           05819         Current tobacco user and received tobacco cessation intervention (must inclu         HCPCS         Procedure           05810         Overweight and obesity         ICD-9-CM         Diagnosis         Diagnosis           05811         Coclacited adiposity         ICD-9-CM         Diagnosis         Diagnosis           05823         Body Mass Index 30-30.9, adult         ICD-9-CM         Diagnosis         Diagnosis           05833         Body Mass Index 30-33.9, adult         ICD-9-CM         Diagnosis         Diagnosis           05833         Body Mass Index 30-34.9, adult         ICD-9-CM         Diagnosis         Diagnosis           05834         Body Mass Index 30-34.9, adult         ICD-9-CM         Diagnosis         Diagnosis           05835         Body Mass Index 30-34.9, adu	Covariate	es in this Request		
G9016Smoking ressation counseling, individual, in the absence of or in addition to any other evalualHCPCSProcedureG9276Documentation that patient is a current tobacco userHCPCSProcedureG9458Patient documented as tobacco user and received tobacco cessation intervention (must incluHCPCSProcedureG9458Overweight and obesityICD-9-CMDiagnosisZ78.00OverweightICD-9-CMDiagnosisZ78.10Include adiposityICD-9-CMDiagnosisZ78.11Localized adiposityICD-9-CMDiagnosisX45.86Bariatric surgery statusICD-9-CMDiagnosisX85.3Body Mass Index stores30-30.9, adultICD-9-CMDiagnosisX85.31Body Mass Index 30-30.9, adultICD-9-CMDiagnosisX85.32Body Mass Index 30-34.9, adultICD-9-CMDiagnosisX85.33Body Mass Index 30-34.9, adultICD-9-CMDiagnosisX85.34Body Mass Index 30-34.9, adultICD-9-CMDiagnosisX85.35Body Mass Index 30-34.9, adultICD-9-CMDiagnosisX85.38Body Mass Index 30-34.9, adultICD-9-CMDiagnos	Code	Description	Code Type	Code Category
G9276         Documentation that patient is a current tobacco user         HCPCS         Procedure           Obesity         ICD-9CM         Diagnosis         Procedure           278.0         Overweight and obesity         ICD-9CM         Diagnosis           278.0         Obesity, unspecified         ICD-9CM         Diagnosis           278.0         Overweight         ICD-9CM         Diagnosis           278.1         Localized adiposity         ICD-9CM         Diagnosis           278.1         Localized adiposity         ICD-9CM         Diagnosis           278.1         Localized adiposity         ICD-9CM         Diagnosis           278.3         Body Mass Index 31.0-33.9, adult         ICD-9CM	G8690	Current tobacco smoker or current exposure to secondhand smoke	HCPCS	Procedure
E9458         Patient documented as tobacco user and received tobacco cessation intervention (must inclu         HCPCS         Procedure           Obesity         UCD-9-CM         Diagnosis         278.00         Obesity, unspecified         ICD-9-CM         Diagnosis           278.01         Overweight         ICD-9-CM         Diagnosis         278.01         Morbid obesity         ICD-9-CM         Diagnosis           278.02         Overweight         ICD-9-CM         Diagnosis         278.01         Morbid obesity         ICD-9-CM         Diagnosis           278.11         Localized adiposity         ICD-9-CM         Diagnosis         278.01         Morbid obesity         ICD-9-CM         Diagnosis           278.33         Body Mass Index 31.0-31.9, adult         ICD-9-CM         Diagnosis         278.33         Body Mass Index 31.0-31.9, adult         ICD-9-CM         Diagnosis           278.33         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis         278.35         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis           278.35         Body Mass Index 40.3-40.9, adult         ICD-9-CM         Diagnosis         278.35           278.35         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis         278.38           278.35	G9016	Smoking cessation counseling, individual, in the absence of or in addition to any other evalua	HCPCS	Procedure
Obesity         ICD-9-CM         Diagnosis           278.0         Overweight and obesity         ICD-9-CM         Diagnosis           278.0         Morbid obesity         ICD-9-CM         Diagnosis           278.0         ICD-9-CM         Diagnosis           278.0         Coverweight         ICD-9-CM         Diagnosis           278.1         Localized adiposity         ICD-9-CM         Diagnosis           278.1         Localized adiposity         ICD-9-CM         Diagnosis           V85.3         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis           V85.35         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis           V85.35         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis           V85.38         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis           V85.39         Body Mass Index 30.0-30.9, adult         ICD-9-CM         Diagnosis           V85.48	G9276	Documentation that patient is a current tobacco user	HCPCS	Procedure
278.0Overweight and obesityICD-9-CMDiagnosis278.00Desity, unspecifiedICD-9-CMDiagnosis278.01Morbid obesityICD-9-CMDiagnosis278.02OverweightICD-9-CMDiagnosis278.11Localized adiposityICD-9-CMDiagnosis278.23Body Mass Index Bou-30, adultICD-9-CMDiagnosis278.31Body Mass Index 80.0-30, adultICD-9-CMDiagnosis278.32Body Mass Index 30.0-30, adultICD-9-CMDiagnosis278.33Body Mass Index 30.0-30, adultICD-9-CMDiagnosis278.33Body Mass Index 30.0-30, adultICD-9-CMDiagnosis278.33Body Mass Index 30.0-30, adultICD-9-CMDiagnosis278.33Body Mass Index 30.0-30, adultICD-9-CMDiagnosis278.35Body Mass Index 30.0-36, adultICD-9-CMDiagnosis278.35Body Mass Index 30.0-36, adultICD-9-CMDiagnosis278.35Body Mass Index 30.0-36, adultICD-9-CMDiagnosis278.35Body Mass Index 30.0-36, adultICD-9-CMDiagnosis278.38Body Mass Index 30.0-39, adultICD-9-CMDiagnosis278.39Body Mass Index 30.0-39,	G9458	Patient documented as tobacco user and received tobacco cessation intervention (must inclu	HCPCS	Procedure
278.00Obesity: unspecifiedICD-9-CMDiagnosis278.01Morbid obesityICD-9-CMDiagnosis278.11Localized adiposityICD-9-CMDiagnosis278.12OverweightICD-9-CMDiagnosis278.13Localized adiposityICD-9-CMDiagnosis278.24OverweightICD-9-CMDiagnosis278.35Body Mass Index between 30-39, adultICD-9-CMDiagnosis278.30Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.31Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.33Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.33Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.35Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.35Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.35Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosis278.35Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.36Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.38Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.39Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.39Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.39Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.39Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis278.30Body Mass I	Obesity			
278.01Morbid obesityCD-9-CMDiagnosis278.02OverweightICD-9-CMDiagnosis278.1Localized adiposityICD-9-CMDiagnosisV45.8Bariatric surgery statusICD-9-CMDiagnosisV85.3Body Mass Index 30.0-30, adultICD-9-CMDiagnosisV85.3Body Mass Index 30.0-310, adultICD-9-CMDiagnosisV85.31Body Mass Index 30.0-310, adultICD-9-CMDiagnosisV85.32Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.33Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.34Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.35Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.36Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.37Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-320, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39, adultICD-9-CMDiagnosisV85.39Laparoscopic gastroplastyICD-9-CMDiagnosisV85.39Laparoscopic gastroplastyICD-9-CMDiagnosisV85.3Laparoscopic gastroplastyICD-9-CMDiagnosisV85.3Laparoscopic gastroplastyICD-9-CMDiagnosisV85.4Body Mass Index 30.00000	278.0	Overweight and obesity	ICD-9-CM	Diagnosis
278.02CVerweightICD-9-CMDiagnosis278.1Localized adiposityICD-9-CMDiagnosis278.3Body Mass Index between 30-39, adultICD-9-CMDiagnosisV85.30Body Mass Index between 30-39, adultICD-9-CMDiagnosisV85.31Body Mass Index 30-30.9, adultICD-9-CMDiagnosisV85.32Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosisV85.33Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosisV85.34Body Mass Index 31.0-32.9, adultICD-9-CMDiagnosisV85.35Body Mass Index 30.0-33.9, adultICD-9-CMDiagnosisV85.35Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.36Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 40.0-40.er, adultICD-9-CMDiagnosisV85.38Body Mass Index 40.and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 40.and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 40.and over, adultICD-9-CMDiagnosisDeterschemic Heard DiseaseICD-9-CMDiagnosisDeterschemic Heard and subacute forms of ischemic heart diseaseICD-9-CMDiagnosis11.1Other acute and subacute forms of ischemic heart diseaseICD-9-CMDiagnosis411.8Other acute and subacute forms of ischemic heart diseaseICD-9-CMDiagnosis411.9Ot	278.00	Obesity, unspecified	ICD-9-CM	Diagnosis
278.1Localize adiposityICD-9-CMDiagnosisV45.86Bariatric surgery statusICD-9-CMDiagnosisV85.31Body Mass index between 30-39, adultICD-9-CMDiagnosisV85.31Body Mass index 310-31.9, adultICD-9-CMDiagnosisV85.31Body Mass index 310-31.9, adultICD-9-CMDiagnosisV85.32Body Mass index 310-31.9, adultICD-9-CMDiagnosisV85.33Body Mass index 310-33.9, adultICD-9-CMDiagnosisV85.34Body Mass index 34.0-34.9, adultICD-9-CMDiagnosisV85.35Body Mass index 35.0-35.9, adultICD-9-CMDiagnosisV85.36Body Mass index 30.0-37.9, adultICD-9-CMDiagnosisV85.37Body Mass index 30.0-39.9, adultICD-9-CMDiagnosisV85.38Body Mass index 30.0-39.9, adultICD-9-CMDiagnosisV85.39Body Mass index 30.0-39.9, adultICD-9-CMDiagnosisV85.34Body Mass index 30.0-39.9, adultICD-9-CMDiagnosisV85.35Body Mass index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass index 40 and over, adu	278.01	Morbid obesity	ICD-9-CM	Diagnosis
V45.86Bariatric surgery statusICD-9-CMDiagnosisV85.30Body Mass Index 30.0-30.9, adultICD-9-CMDiagnosisV85.31Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosisV85.32Body Mass Index 32.0-32.9, adultICD-9-CMDiagnosisV85.33Body Mass Index 32.0-32.9, adultICD-9-CMDiagnosisV85.34Body Mass Index 32.0-32.9, adultICD-9-CMDiagnosisV85.35Body Mass Index 33.0-33.9, adultICD-9-CMDiagnosisV85.35Body Mass Index 33.0-35.9, adultICD-9-CMDiagnosisV85.36Body Mass Index 36.0-36.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.39Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosis44.66Laparoscopic gastroplastyICD-9-CMDiagnosis44.71High gastric bypassICD-9-CMDiagnosis44.85Laparoscopic gastroplastyICD-9-CMDiagnosis411.0Other acute and subacute forms of Ischemic heart diseaseICD-9-CMDiagnosis411.8Other acute and subacute forms of ischemic heart diseaseICD-9-CMDiagnosis411.8Other acute and subacute form of ischemic heart diseaseICD-9-CMDiagnosis411.9Other acute and subacute form of ischemic heart diseaseICD-9-CMDiagnos	278.02	Overweight	ICD-9-CM	Diagnosis
V85.3Body Mass Index between 30-39, adultICD-9-CMDiagnosisV85.31Body Mass Index 30.0-30, adultICD-9-CMDiagnosisV85.31Body Mass Index 31.0-31.9, adultICD-9-CMDiagnosisV85.32Body Mass Index 32.0-32.9, adultICD-9-CMDiagnosisV85.33Body Mass Index 31.0-33.9, adultICD-9-CMDiagnosisV85.34Body Mass Index 34.0-34.9, adultICD-9-CMDiagnosisV85.35Body Mass Index 35.0-35.9, adultICD-9-CMDiagnosisV85.36Body Mass Index 30.0-37.9, adultICD-9-CMDiagnosisV85.37Body Mass Index 30.0-37.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.39Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-39.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-30.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0-30.9, adultICD-9-CMDiagnosisV85.4Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.5Laparoscopic gast	278.1	Localized adiposity	ICD-9-CM	Diagnosis
V85.30Body Mass Index 30.0.30.9, adultICD-9-CMDiagnosisV85.31Body Mass Index 31.0.31.9, adultICD-9-CMDiagnosisV85.32Body Mass Index 33.0.32.9, adultICD-9-CMDiagnosisV85.34Body Mass Index 33.0.33.9, adultICD-9-CMDiagnosisV85.35Body Mass Index 34.0.34.9, adultICD-9-CMDiagnosisV85.36Body Mass Index 35.0.35.9, adultICD-9-CMDiagnosisV85.37Body Mass Index 37.0.37.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 37.0.37.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 37.0.37.9, adultICD-9-CMDiagnosisV85.38Body Mass Index 30.0.39.9, adultICD-9-CMDiagnosisV85.48Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 30.0.30.9IGD-9-CMDiagnosisV85.4Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass Index 40 and over, adultICD-9-CMDiagnosisV85.4Body Mass Inde	V45.86	Bariatric surgery status	ICD-9-CM	Diagnosis
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414.11 Aneurysm of coronary vessels ICD-9-CM Diagnosis	414.1	Aneurysm and dissection of heart	ICD-9-CM	Diagnosis
414.11 Aneurysm of coronary vessels ICD-9-CM Diagnosis	414.10	Aneurysm of heart	ICD-9-CM	Diagnosis
414.12 Dissection of coronary artery ICD-9-CM Diagnosis	414.11	Aneurysm of coronary vessels	ICD-9-CM	
	414.12	Dissection of coronary artery	ICD-9-CM	Diagnosis



Code	Description	Code Type	Code Category
414.19	Other aneurysm of heart	ICD-9-CM	Diagnosis
414.2	Chronic total occlusion of coronary artery	ICD-9-CM	Diagnosis
414.3	Coronary atherosclerosis due to lipid rich plaque	ICD-9-CM	Diagnosis
414.4	Coronary atherosclerosis due to calcified coronary lesion	ICD-9-CM	Diagnosis
414.8	Other specified forms of chronic ischemic heart disease	ICD-9-CM	Diagnosis
414.9	Unspecified chronic ischemic heart disease	ICD-9-CM	Diagnosis
429.2	Unspecified cardiovascular disease	ICD-9-CM	Diagnosis
429.5	Rupture of chordae tendineae	ICD-9-CM	Diagnosis
429.6	Rupture of papillary muscle	ICD-9-CM	Diagnosis
429.7	Certain sequelae of myocardial infarction, not elsewhere classified	ICD-9-CM	Diagnosis
429.71	Acquired cardiac septal defect	ICD-9-CM	Diagnosis
429.79	Other certain sequelae of myocardial infarction, not elsewhere classified	ICD-9-CM	Diagnosis
429.9	Unspecified heart disease	ICD-9-CM	Diagnosis
G8033	Prior myocardial infarction, coronary artery disease patient documented to be on beta-blocke	HCPCS	Procedure
G8034	Prior myocardial infarction, coronary artery disease patient not documented to be on beta-bl	HCPCS	Procedure
G8035	Clinician documented that prior myocardial infarction, coronary artery disease patient was no	HCPCS	Procedure
G8036	Coronary artery disease patient documented to be on antiplatelet therapy	HCPCS	Procedure
G8037	Coronary artery disease patient not documented to be on antiplatelet therapy	HCPCS	Procedure
G8038	Clinician documented that coronary artery disease patient was not eligible candidate for antij	HCPCS	Procedure
G8039	Coronary artery disease patient with low-density lipoprotein documented to be greater than	HCPCS	Procedure
G8040	Coronary artery disease patient with low-density lipoprotein documented to be less than or e	HCPCS	Procedure
G8041	Clinician documented that coronary artery disease patient was not eligible candidate for low-	HCPCS	Procedure
Peptic U	lcer 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 ob		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 obstru		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



		Codo Turra	Codo Cotogora
<u>Code</u> 532.10	Description Acute duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM	Code Category
532.10 532.11	Acute duodenal licer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.11	Acute duodenal ulcer with hemorrhage and perforation	ICD-9-CIVI	Diagnosis
532.2 532.20	Acute duodenal licer with hemorrhage and perforation, without mention of obstruction	ICD-9-CIM	Diagnosis
532.20	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CIVI	Diagnosis
532.21	Acute duodenal licer without mention of hemorrhage or perforation	ICD-9-CIVI	Diagnosis
532.30	Acute duodenal licer without mention of hemorrhage, perforation, or obstruction	ICD-9-CIM	Diagnosis
532.30	Acute duodenal dicer without mention of hemorrhage or perforation, with obstruction	ICD-9-CIM	Diagnosis Diagnosis
532.31	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-9-CIM	Diagnosis
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	ICD-9-CM	Diagnosis
532.40	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	_
532.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis Diagnosis
532.50	Chronic or unspecified duodenal dicer with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
532.51	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	ICD-9-CIM	_
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of		Diagnosis Diagnosis
532.60	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CIVI	Diagnosis
532.01	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
532.70	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
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
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM	Diagnosis
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM	Diagnosis
533.11	Acute peptic ulcer, unspecified site, with perforation 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 ok		Diagnosis
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 obstruct		Diagnosis
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with ot		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 ol		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 ob		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, witho		Diagnosis
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstr		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 obstru	ICD-9-CM	Diagnosis
533.71	Chronic peptic ulcer of unspecified site without mention of hemorrhage or perforation, with (		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



			Code Cot
Code	Description		Code Category
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
534.4 534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-9-CM ICD-9-CM	Diagnosis
	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction		Diagnosis
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM	Diagnosis
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM ICD-9-CM	Diagnosis
534.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction		Diagnosis
534.51 534.6	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	ICD-9-CM ICD-9-CM	Diagnosis
	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation		Diagnosis
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mentior		Diagnosis
534.61 534.7	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM ICD-9-CM	Diagnosis
	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation		Diagnosis
534.70	Chronic gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM	Diagnosis
534.71 44.4	Chronic gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction Control of hemorrhage and suture of ulcer of stomach or duodenum	ICD-9-CM ICD-9-CM	Diagnosis
	-		Diagnosis
44.40	Suture of peptic ulcer, not otherwise specified	ICD-9-CM	Diagnosis
44.41	Suture of gastric ulcer site	ICD-9-CM	Diagnosis
44.42	Suture of duodenal ulcer site	ICD-9-CM	Diagnosis
Stroke 430	Subarachnoid hemorrhage	ICD-9-CM	Diagnosis
430	Intracerebral hemorrhage	ICD-9-CM	Diagnosis
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 wellcolar artery 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
Syncope			Diagnosis
780.2	Syncope and collapse	ICD-9-CM	Diagnosis
	t Ischemic Attack		
435	Transient cerebral ischemia	ICD-9-CM	Diagnosis
435.0	Basilar artery syndrome	ICD-9-CM	Diagnosis
435.1	Vertebral artery syndrome	ICD-9-CM	Diagnosis
435.2	Subclavian steal syndrome	ICD-9-CM	Diagnosis
435.3	Vertebrobasilar artery syndrome	ICD-9-CM	Diagnosis
435.8	Other specified transient cerebral ischemias	ICD-9-CM	Diagnosis
435.9	Unspecified transient cerebral ischemia	ICD-9-CM	Diagnosis
Walker U			
E0130	Walker, rigid (pickup), adjustable or fixed height	HCPCS	Procedure
E0135	Walker, folding (pickup), adjustable or fixed height	HCPCS	Procedure
E0140	Walker, with trunk support, adjustable or fixed height, any type	HCPCS	Procedure
E0141	Walker, rigid, wheeled, adjustable or fixed height	HCPCS	Procedure
E0142	Rigid walker, wheeled, with seat	HCPCS	Procedure
E0143	Walker, folding, wheeled, adjustable or fixed height	HCPCS	Procedure
	_		



Code	Description	Code Type	Code Category
E0144	Walker, enclosed, 4 sided framed, rigid or folding, wheeled with posterior seat	HCPCS	Procedure
E0145	Walker, wheeled, with seat and crutch attachments	HCPCS	Procedure
E0146	Folding walker, wheeled, with seat	HCPCS	Procedure
E0147	Walker, heavy-duty, multiple braking system, variable wheel resistance	HCPCS	Procedure
E0148	Walker, heavy-duty, without wheels, rigid or folding, any type, each	HCPCS	Procedure
E0149	Walker, heavy-duty, wheeled, rigid or folding, any type	HCPCS	Procedure
E0154	Platform attachment, walker, each	HCPCS	Procedure
E0155	Wheel attachment, rigid pick-up walker, per pair	HCPCS	Procedure
E0156	Seat attachment, walker	HCPCS	Procedure
E0157	Crutch attachment, walker, each	HCPCS	Procedure
E0158	Leg extensions for walker, per set of 4	HCPCS	Procedure
E0159	Brake attachment for wheeled walker, replacement, each	HCPCS	Procedure
K0458	Heavy duty walker, without wheels, each	HCPCS	Procedure
K0459	Heavy duty wheeled walker, each	HCPCS	Procedure
L1520	Thoracic-hip-knee-ankle orthotic (THKAO), swivel walker	HCPCS	Procedure



Generic Name

Angiotensin-Converting Enzyme Inhibitors and Angiotensin Receptor Blockers 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 **OUINAPRIL 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



Generic Name 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



## Generic Name

**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 120 MG MEXILETINE HCL CAP 150 MG MEXILETINE HCL CAP 200 MG MEXILETINE HCL CAP 250 MG



#### Generic Name

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 **OUINIDINE SULFATE** TOCAINIDE HCL QUINIDINE GLUCONATE MORICIZINE HCL Anticoagulants HEPARIN SODIUM (PORCINE) 100 UNIT ML IN D5W HEPARIN SODIUM (BOVINE) INJ 1000 UNIT ML HEPARIN SODIUM (BOVINE) INJ 5000 UNIT ML HEPARIN SODIUM (BOVINE) INJ 10000 UNIT ML HEPARIN SODIUM (PORCINE) INJ 10000 UNIT ML HEPARIN SODIUM (PORCINE) INJ 2500 UNIT ML HEPARIN SODIUM (PORCINE) INJ 7500 UNIT ML HEPARIN SODIUM (PORCINE) INJ 5000 UNIT ML ENOXAPARIN SODIUM INJ 10 MG 0.1ML (100 MG ML) HEPARIN SODIUM (PORCINE) INJ 1000 UNIT ML ENOXAPARIN SODIUM INJ 30 MG 0.3ML ENOXAPARIN SODIUM INJ 40 MG 0.4ML ENOXAPARIN SODIUM INJ 60 MG 0.6ML ENOXAPARIN SODIUM INJ 80 MG 0.8ML

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 ML 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 PORCINE IN 0.9 % SODIUM CHLORIDE FONDAPARINUX SODIUM

HEPARIN SODIUM PORCINE NORMAL SALINE PF



**Generic Name 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



#### Generic Name

**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



**Generic Name** 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



## Generic Name

**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 ML **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



#### Generic Name

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



#### **Generic Name**

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



#### **Generic Name**

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 FENOFIBRATE FENOFIBRATE FENOFIBRATE FENOFIBRATE FENOFIBRATE MICRONIZED 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 ML (COMPOUND KIT) FAMOTIDINE TAB 10 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 CA CARBONATE MAG HYDROXIDE CHEW TAB 10 800 165 MG **CIMETIDINE TAB 800 MG CIMETIDINE TAB 200 MG** CIMETIDINE HCL SOLN 300 MG 5ML FAMOTIDINE CHEW TAB 20 MG FAMOTIDINE CA CARBONATE MAG HYDROXIDE CHEW TAB 10 800 185 MG **NIZATIDINE CAP 300 MG** RANITIDINE HCL TAB 150 MG DIETARY MANAGEMENT CAP PACK FAMOTIDINE



Generic Name
RANITIDINE HCL
FAMOTIDINE CALCIUM CARBONATE MAGNESIUM HYDROXIDE
FAMOTIDINE CALCIUM CARBONATE MAGNESIUM
CIMETIDINE
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 ML
INSULIN ASPART INJ 100 UNIT ML
INSULIN LISPRO (HUMAN) SOLN PEN INJECTOR 100 UNIT ML
INSULIN ASPART SOLN CARTRIDGE 100 UNIT ML
INSULIN ASPART SOLN PEN INJECTOR 100 UNIT ML
INSULIN ASPART PROT ASPART (HUMAN) INJ 100 UNIT ML (70 30)
INSULIN ASPART PROT ASPART SUS PEN INJ 100 UNIT ML (70 30)
INSULIN (REGULAR) INJ 100 UNIT ML
INSULIN ISOPHANE INJ 100 UNIT ML
INSULIN ZINC INJ 100 UNIT ML
INSULIN LISPRO (HUMAN) INJ 100 UNIT ML
INSULIN ISOPHANE (HUMAN) INJ 100 UNIT ML
INSULIN REGULAR (HUMAN) INJ 100 UNIT ML
INSULIN DETEMIR INJ 100 UNIT ML
INSULIN GLARGINE INJ 100 UNIT ML
INSULIN ISOPHANE REGULAR (HUMAN) INJ 100 UNIT ML (70 30)
INSULIN ZINC (HUMAN) INJ 100 UNIT ML
INSULIN GLARGINE SOLN PEN INJECTOR 100 UNIT ML
INSULIN LISPRO PROT LISPRO (HUMAN) INJ 100 UNIT ML (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



Generic Name
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
FUROSEMIDE
BUMETANIDE
ETHACRYNIC ACID
Metformin GLYBURIDE METFORMIN TAB 2.5 500 MG
METFORMIN HCL TAB SR 24HR 500 MG
METFORMIN HEL TAB S00 MG
METFORMIN HEL TAB 500 MG
METFORMIN HEL TAB 550 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



# Generic Name

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 **BUPROPION HCL** 

# Nitrates

ISOSORBIDE MONONITRATE TAB SR 24HR 120 MG NITROGLYCERIN SL 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 SL 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 SL 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 SL TAB 0.3 MG NITROGLYCERIN SL 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



#### Generic Name

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** 



**Generic Name** 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** 



#### Generic Name

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)


#### Generic Name

**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



Generic Name 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)



#### **Generic Name**

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



Generic Name 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** 



#### Generic Name

**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 **OUINAPRIL 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



#### **Generic Name**

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



**Generic Name** 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 HYDRALAZINE HCL RESERPINE HYDROCHLOROTHIAZIDE SPIRONOLACTONE



This request executed the Cohort I	dentification and Descriptiv	e Analysis (CIDA) tool with	additional programming to	o compare risk of stroke ar	d bleeding associated wit	h use of dabigatran,	
rivaroxaban, and apixaban in those	e aged 65 years or older in t	he Sentinel Distributed Dat	tabase (SDD).				
	Post-Index Cense	Coverage Requirement: Enrollment Requirement: Enrollment Requirement: Enrollment Gap: Age Groups: Stratifications: or Output Categorization: Envelope Macro: Freeze Data:	None 45 days 65-74, 75-84, and 85+ yea None No reclassification Yes Risk scores, daily dose req	e rs	th QRP 10.1.0 or later		
			Thromboen	nbolic stroke			
Sex		rison 1 d Females	Compa	arison 2 d Females		arison 3 nd Females	
Drug/Exposure							
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:		rivaroxaban, edoxaban,	,	rivaroxaban, edoxaban,		rivaroxaban, edoxaban,	
	warfarin			(all doses)		(all doses)	
Incidence Assessment		e or days supply	Dispensing date or days supply		Dispensing date or days supply		
Washout	183	days	183 days		183 days		
Cohort Definition	First valid incident	exposure episode	First valid incident	t exposure episode	First valid incident exposure episode		
Stockpiling Overlapping Claims	33	3%	33%		33%		
Episode Gap	3 d	ays	3 d	lays	3 days		
Episode Extension Period	3 d	ays	3 days		3 days		
Minimum Episode Duration	10	lay	1 day		1 day		
Maximum Episode Duration	No	ne		one	N	one	
Minimum Days Supplied		lay		day	1	day	
Censor Criteria	transplant, Dialysis, Non-/ encounter, Major e Gastrointestinal hem	rator drug dispensing, Low	Death, Query end date, Di exposure episode, Compa dose of current exposu Edoxaban dispensing, Ap transplant, Dialysis, IS enc bleeding, Gastrointestina hemo	rator drug dispensing, Low re, Warfarin dispensing, ixaban dispensing, Kidney counter, Major extracranial I hemorrhage, Intracranial rrhage	exposure episode, Comp dose of current expose Edoxaban dispensing, A transplant, Dialysis, IS en bleeding, Gastrointesting	Disenrollment, Event, End of arator drug dispensing, Low ure, Warfarin dispensing, pixaban dispensing, Kidney counter, Major extracranial al hemorrhage, Intracranial prrhage	
				nbolic stroke			
	-	rison 1	•	arison 2		arison 3	
Sex	Males an	d Females	Males an	d Females	Males a	nd Females	



Inclusion/Exclusion	Atuial filmilled	ion on flutton	Atrial fibrillation on flutton		Atrial fibrillation or flutter	
Pre-Existing Condition		ion or flutter ude	Atrial fibrillation or flutter		Include	
Include/Exclude			Include Any		Any	
Care Setting/Principle Diagnosis		ny Dideus		,		,
Lookback Period	-183,			0 days	,	0 days
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Exclude		Exc	ude	Exc	lude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition	Institutional s	tay encounter	Institutional s	tay encounter	Institutional s	stay encounter
Include/Exclude	Excl	ude	Exc	ude	Exc	lude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition	Dielusie Kideeuweeleesee	ut Deen vein threnchesis	Dielusie Kideeuweeleese	ut Deen vein threachesis	Dielusie Kideeuweeleese	ant. Daan wain thuamhasia
_	Dialysis, Kidney replaceme			-		ent, Deep vein thrombosis,
	Pulmonary embolism, Jo		•	oint replacement, Mitral	<b>,</b>	oint replacement, Mitral
	stenosis, Valve repla	cement, Valve repair	stenosis, Valve repla	cement, Valve repair	stenosis, Valve replacement, Valve repair	
Include/Exclude	Exc	ude	Exclude		Exclude	
Care Setting/PDX	Any, except Ambulatory Visit (AV)/ Other		Any, except AV/OA for dialysis		Annu august AV//OA for diskusi-	
care octaing, i bra	Ambulatory Visit (OA) for dialysis		Any, except AV	/OA for dialysis	Any, except AV/OA for dialysis	
Lookback Period		D days	-183, 0 days		-183, 0 days	
Event/Outcome		•		·		
Event/Outcome	Thromboer	ibolic stroke	Thromboembolic stroke		Thromboen	nbolic stroke
Care Setting/PDX	Inpatient Hos	pital Stay (IP)	IP		IP	
Washout	0 d	ays	0 days		0 days	
Blackout Period	10	lay	1 day		1 day	
			Major Extracr	anial Bleeding		
	Compa	rison 4	Compa	rison 5	Compa	arison 6
Sex	Males an	d Females	Males an	d Females	Males an	d Females
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:	Apixaban, dabigatran,		• • •	rivaroxaban, edoxaban,		rivaroxaban, edoxaban,
		all doses)		(all doses)		(all doses)
Incidence Assessment	Dispensing date	e or days supply	Dispensing date	e or days supply	Dispensing dat	e or days supply
Washout	183	days	183	days	183	days
			Major Extracr	anial Bleeding		
	Compa	rison 4	Compa	rison 5	Compa	arison 6
Sex		d Females	•	d Females	Males and Females	
Cohort Definition	First valid incident			exposure episode		t exposure episode
Stockpiling Overlapping Claims		1%		3%		
	1 33				33%	



	_					
Episode Gap	3 d	ays	3 days			lays
Episode Extension Period	3 d	ays	3 days		3 days	
Minimum Episode Duration	1 day		1 0	day	1 day	
Maximum Episode Duration	No	ne	No	one	N	one
Minimum Days Supplied	1 day		10	day	1	day
Censor Criteria	Death, Query end date, Disenrollment, Event, End of exposure episode, Comparator drug dispensing, Low		exposure episode, Compa	rator drug dispensing, Low	exposure episode, Compa	arator drug dispensing, Low
	dose of current exposu	re, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,	dose of current exposu	ire, Warfarin dispensing,
	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	pixaban dispensing, Kidney
	transplant, Dialysis, IS enc	ounter, Major extracranial	transplant, Dialysis, IS end	ounter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracranial
		· •		I hemorrhage, Intracranial		l hemorrhage, Intracranial
	hemo	-	-	rrhage	-	orrhage
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat	ion or flutter	Atrial fibrillation or flutter		Atrial fibrillation or flutter	
Include/Exclude	Incl	ude	Include		Include	
Care Setting/PDX	A	ny	Any		Any	
Lookback Period	-183,	0 days	-183,	0 days	-183, 0 days	
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		ude		lude		lude
Lookback Period	0, 0	days	0,0	days	0,0	davs
Pre-Existing Condition	Institutional s		Institutional s	tay encounter	Institutional	stay encounter
Include/Exclude		ude	Exc	lude	Exc	lude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition	Dialysis, Kidney replaceme	ent. Deep vein thrombosis.	Dialysis, Kidney replacem	ent. Deep vein thrombosis.	Dialysis. Kidney replacem	ent, Deep vein thrombosis,
	Pulmonary embolism, Jo					oint replacement, Mitral
		cement, Valve repair	Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair		•	acement, Valve repair
Include /Evolude		ude	<i>,</i> 1	lude		lude
Include/Exclude		/OA for dialysis		//OA for dialysis		//OA for dialysis
Care Setting/PDX		0 days		· ·		0 days
Lookback Period	-183,	U Udys	-183,	0 days	-183,	U udys

		Major Extracranial Bleeding	
	Comparison 4	Comparison 5	Comparison 6
Sex	Males and Females	Males and Females	Males and Females
Event/Outcome			
Event/Outcome	Major Extracranial Bleeding <sup>1</sup>	Major Extracranial Bleeding <sup>1</sup>	Major Extracranial Bleeding <sup>1</sup>
Care Setting/PDX	IP	IP	IP
Washout	0 days	0 days	0 days
Blackout Period	1 day	1 day	1 day



· ·						
Drug/Exposure					<b>D</b> 1 · · ·	A 1 4
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:		rivaroxaban, edoxaban,	, , , ,	rivaroxaban, edoxaban,	1	rivaroxaban, edoxaban,
	warfarin (	,		(all doses)		(all doses)
Incidence Assessment	, ,	e or days supply		e or days supply		e or days supply
Washout	183	,		days		days
Cohort Definition	First valid incident	exposure episode	First valid inciden	t exposure episode	First valid incident	t exposure episode
Stockpiling Overlapping Claims	33	3%	33	3%	33	3%
			Gastrointestin	al Hemorrhage		
	Compa	rison 7	Compa	arison 8	Compa	arison 9
Sex	Males and	d Females	Males an	d Females	Males an	d Females
Episode Gap	3 d	ays	3 c	lays	3 d	ays
Episode Extension Period	3 d	ays	3 days		3 days	
Minimum Episode Duration	1 0	lay	1 day		10	day
Maximum Episode Duration	No	one	No	one	No	one
Minimum Days Supplied	1 0	lay	1 0	day	1 0	day
Censor Criteria	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, D	isenrollment, Event, End of	Death, Query end date, Di	senrollment, Event, End of
	exposure episode, Compa	rator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Low
		re, Warfarin dispensing,		re, Warfarin dispensing,		re, Warfarin dispensing,
	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney
	transplant, Dialysis, IS enc	ounter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracranial	transplant, Dialysis, IS end	ounter, Major extracranial
	bleeding, Gastrointestina	hemorrhage, Intracranial	bleeding, Gastrointestina	I hemorrhage, Intracranial	bleeding, Gastrointestina	l hemorrhage, Intracranial
	hemo	-	-	rrhage	-	rrhage
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat	tion or flutter	Atrial fibrillation or flutter		Atrial fibrilla	tion or flutter
Include/Exclude	Include		Include		Inc	ude
Care Setting/PDX	A	ny	A	ny		ny
Lookback Period	-183,	0 days	-183,	0 days	-183,	0 days

			Gastrointestin	al Hemorrhage			
	Compa	Comparison 7		arison 8	Comparison 9		
Sex	Males an	d Females	Males an	d Females	Males an	d Females	
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	Excl	lude	Exclude		Exclude		
Lookback Period	0, 0	days	0, 0 days		0, 0 days		
Pre-Existing Condition	Institutional s	Institutional stay encounter		Institutional stay encounter		Institutional stay encounter	
Include/Exclude	Exc	lude	Exc	lude	Exclude		



Lookback Period	0, 0	days	0, 0	days	0, 0 days	
Pre-Existing Condition	Dialysis Kidney replaceme	ent. Deen vein thromhosis	Dialysis, Kidney replaceme	ent. Deen vein thromhosis	Dialysis Kidney renlacem	ent. Deen vein thromhosis
		oint replacement, Mitral		pint replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral	
	stenosis, Valve replacement, Valve repair			cement, Valve repair	stenosis, Valve replacement, Valve repair	
	stenosis, valve repla			cement, valve repair	steriosis, valve repla	icement, valve repair
Include/Exclude		lude		ude		lude
Care Setting/PDX	Any, except AV/OA for dialysis			/OA for dialysis	Any, except A	//OA for dialysis
Lookback Period	-183,	0 days	-183,	0 days	-183,	0 days
Event/Outcome		2		2		2
Event/Outcome		al hemorrhage <sup>2</sup>	Gastrointestina			al hemorrhage <sup>2</sup>
Care Setting/PDX		Р	-	Р		IP
Washout		ays		ays		lays
Blackout Period	1 c	day	1 (	1	1	day
				Hemorrhage	-	
	•	rison 10	•	rison 11	•	rison 12
Sex	Males and	d Females	Males an	d Females	Males ar	d Females
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:	/	rivaroxaban, edoxaban,	,	rivaroxaban, edoxaban,		rivaroxaban, edoxaban,
incluent with Respect to.		(all doses)		(all doses)		(all doses)
Incidence Assessment		e or days supply		e or days supply		e or days supply
Washout		days	183 days			davs
Cohort Definition		t exposure episode	First valid incident exposure episode		First valid incident exposure episode	
Stockpiling Overlapping Claims		3%	33%		33%	
Episode Gap	3 d	ays	3 days		3 days	
Episode Extension Period	3 d	ays	3 days		3 days	
Minimum Episode Duration	1 0	day	1 day		1 day	
Maximum Episode Duration	No	one	No	one	N	one
Minimum Days Supplied	1 c	day	10	lay	1	day
				Hemorrhage		
	•	rison 10	•	rison 11	•	rison 12
Sex	Males and	d Females	Males an	d Females	Males ar	d Females
Censor Criteria	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, D	isenrollment, Event, End o
		re, Warfarin dispensing,	exposure episode, Comparator drug dispensing, Low dose of current exposure, Warfarin dispensing,		dose of current exposure, Warfarin dispensing,	
		ixaban dispensing, Kidney				pixaban dispensing, Kidney
		ounter, Major extracranial		ounter, Major extracranial		counter, Major extracrania
	-	l hemorrhage, Intracranial	-	l hemorrhage, Intracranial		Il hemorrhage, Intracrania
	hemorrhage		hemo	rrhage	hemo	orrhage



Pre-Existing Condition	Atrial fibrillat			Atrial fibrillation or flutter		tion or flutter	
Include/Exclude	Incl		-	lude	Include		
Care Setting/PDX		Any		ny		ny	
Lookback Period	-183,	) days	-183,	0 days	-183,	0 days	
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose rivaroxaban, Low-dose apixaban, L		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	Exc	lude	Exc	lude	
Lookback Period	0, 0	days	0, 0	days	0, 0	days	
Pre-Existing Condition	Institutional s	tay encounter	Institutional s	Institutional stay encounter		Institutional stay encounter	
Include/Exclude	Excl	ude	Exclude		Exclude		
Lookback Period	0, 0	days	0, 0 days		0, 0	days	
Pre-Existing Condition	Dialysis, Kidney replaceme	ent, Deep vein thrombosis,	Dialysis, Kidney replacem	ent, Deep vein thrombosis,	Dialysis, Kidney replacem	ent, Deep vein thrombosis,	
	Pulmonary embolism, Jo	oint replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral		Pulmonary embolism, Joint replacement, Mitral		
		cement, Valve repair	stenosis, Valve repla	acement, Valve repair	stenosis, Valve replacement, Valve repair		
Include/Exclude	Excl	ude	Exclude		Exclude		
Care Setting/PDX	Any, except AV	/OA for dialysis	Any, except AV	//OA for dialysis	Any, except AV	//OA for dialysis	
Lookback Period	-183,	) days	-183,	0 days	-183,	0 days	
Event/Outcome							
Event/Outcome	Intracranial	hemorrhage	Intracranial	hemorrhage	Intracranial	hemorrhage	
Care Setting/PDX	I	0		IP	l	Р	
Washout	0 d	ays	0 0	lays	0 c	lays	
Blackout Period	<u>    1 c</u>	lay	1	day	1 day		

			Thromboemboli	ic Stroke- Female			
	Comparison 13		Compa	Comparison 14		Comparison 15	
Sex	Females		Fen	nales	Fem	ales	
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:	Apixaban, dabigatran, rivaroxaban, edoxaban,		Apixaban, dabigatran, rivaroxaban, edoxaban,		Apixaban, dabigatran, rivaroxaban, edoxaban,		
	warfarin (a	all doses)	warfarin (all doses)		warfarin (all doses)		
Incidence Assessment	Dispensing date	e or days supply	Dispensing date or days supply		Dispensing date or days supply		
Washout	183 0	days	183 days		183 days		
Cohort Definition	First valid incident	exposure episode	First valid incident exposure episode		First valid incident exposure episode		
Stockpiling Overlapping Claims	33	%	33%		33%		
Episode Gap	3 da	ays	3 days		3 days		
Episode Extension Period	3 da	ays	3 c	lays	3 days		



Minimum Episode Duration	1 d	ay	10	day	10	day
Maximum Episode Duration	No	,	None		None	
Minimum Days Supplied	1 d	lay	1 day		1 day	
Censor Criteria	Death, Query end date, Disenrollment, Event, End o		Death, Query end date, Di	isenrollment, Event, End of	Death, Query end date, Di	senrollment, Event, End of
	exposure episode, Compai	rator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Low
	dose of current exposur	re, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,
	Edoxaban dispensing, Apixaban dispensing, Kidney		Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney
	transplant, Dialysis, IS enc	ounter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracranial
				l hemorrhage, Intracranial		
	hemor			rrhage	hemorrhage	
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat	ion or flutter	Atrial fibrillation or flutter		Atrial fibrillation or flutter	
Include/Exclude	Incl	ude	Include		Include	
Care Setting/PDX	Ar		Any		Any	
Lookback Period	-183, (	D days	-183,	0 days	-183,	0 days
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Excl	ude	Exc	lude	Exc	lude
Lookback Period	0, 0	days	0, 0	days	0, 0 days	
Pre-Existing Condition	Institutional stay encounter		Institutional stay encounter		Institutional stay encounter	
Include/Exclude	Excl	ude	Exc	lude	Exclude	
Lookback Period	0,0	days	0, 0	days	0, 0	days

1		Thromboembolic Stroke- Female	
	Comparison 13	Comparison 14	Comparison 15
Sex	Females	Females	Females
Pre-Existing Condition	Dialysis, Kidney replacement, Deep vein thrombosis,	Dialysis, Kidney replacement, Deep vein thrombosis,	Dialysis, Kidney replacement, Deep vein thrombosis,
	Pulmonary embolism, Joint replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral
	stenosis, Valve replacement, Valve repair	stenosis, Valve replacement, Valve repair	stenosis, Valve replacement, Valve repair
Include/Exclude	Exclude	Exclude	Exclude
Care Setting/PDX	Any, except AV/OA for dialysis	Any, except AV/OA for dialysis	Any, except AV/OA for dialysis
Lookback Period	-183, 0 days	-183, 0 days	-183, 0 days
Event/Outcome			
Event/Outcome	Thromboembolic stroke	Thromboembolic stroke	Thromboembolic stroke
Care Setting/PDX	IP	IP	IP
Washout	0 days	0 days	0 days
Blackout Period	1 day	1 day	1 day
		Major Extracranial Bleeding- Female	
	Comparison 16	Comparison 17	Comparison 18



Sex	Fem	ales	Fem	nales	Fen	nales
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:	Apixaban, dabigatran, ı	ivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,
	warfarin (	all doses)	warfarin (all doses)		warfarin	(all doses)
Incidence Assessment	Dispensing date	e or days supply	Dispensing date	e or days supply	Dispensing dat	e or days supply
Washout	183	,		days		days
Cohort Definition	First valid incident			t exposure episode		t exposure episode
Stockpiling Overlapping Claims	33			3%		3%
Episode Gap	3 d	•		ays		lays
Episode Extension Period	3 d	•		ays		lays
Minimum Episode Duration	1 c	,		day		day
Maximum Episode Duration	No	-		one		one
Minimum Days Supplied	1 c	ау	10	day	10	day
Censor Criteria	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, Di	isenrollment, Event, End of
						rator drug dispensing, Low
				re, Warfarin dispensing,	dose of current exposure, Warfarin dispensing,	
		xaban dispensing, Kidney				
	transplant, Dialysis, IS enc					•
		-	bleeding, Gastrointestinal hemorrhage, Intracranial		-	•
	hemoi	rhage	hemo	rrhage	hemo	rrhage
			Major Extracrania	l Bleeding- Female		
	Compar			rison 17		rison 18
Sex	Fem	ales	Fem	nales	Fen	nales
Inclusion/Exclusion		<b>G</b>		<b>a</b>		
Pre-Existing Condition	Atrial fibrillat			tion or flutter		tion or flutter
Include/Exclude	Incl			ude		lude
Care Setting/PDX	Ar	,		ny		ny
Lookback Period	-183, (	,	,	0 days	,	0 days
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	· •	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Excl			lude	Exc	lude
Lookback Period	0, 0	,		days	- / -	days
Pre-Existing Condition	Institutional s	tay encounter	Institutional s	tay encounter	Institutional s	tay encounter
Include/Exclude	Excl			lude		lude
Lookback Period	0, 0	days	0, 0	days	0, 0	days



Pre-Existing Condition   Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair   Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair   Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair   Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair   Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Valve repair     Include/Exclude   Exclude   Intract and any except AV/OA for dialysis   Any, except AV/OA for dialysis   Intract and any exce	ement, Mitral alve repair alysis	
stenosis, Valve replacement, Valve repairstenosis, Valve replacement, Valve repairstenosis, Valve replacement, ValveInclude/ExcludeExcludeExcludeExcludeCare Setting/PDXAny, except AV/OA for dialysisAny, except AV/OA for dialysisAny, except AV/OA for dialysisLookback Period-183, 0 days-183, 0 days-183, 0 daysEvent/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Event/OutcomeIPIPIPWashout0 days0 days0 daysBlackout PeriodI dayI dayI daySexFemalesComparison 19Comparison 20Comparison 21	alve repair alysis	
Include/Exclude Care Setting/PDXExclude Any, except AV/OA for dialysis -183, 0 daysExclude Any, except AV/OA for dialysis Any, except AV/OA for dialysis -183, 0 daysExclude Any, except AV/OA for dialysis -183, 0 daysLookback Period-183, 0 days-183, 0 days-183, 0 daysEvent/Outcome Event/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Care Setting/PDXIPIPIPWashout0 days0 days0 daysBlackout Period1 day1 day1 daySexFemalesFemalesFemales	alysis	
Care Setting/PDXAny, except AV/OA for dialysisAny, except AV/OA for dialysisAny, except AV/OA for dialysisLookback Period-183, 0 days-183, 0 days-183, 0 daysEvent/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Care Setting/PDXIPIPIPWashout0 days0 days0 daysBlackout Period1 day1 day1 dayGastrointestinal Hemorrhage- FemaleSexFemalesFemales	·	
Care Setting/PDXAny, except AV/OA for dialysisAny, except AV/OA for dialysisAny, except AV/OA for dialysisLookback Period-183, 0 days-183, 0 days-183, 0 daysEvent/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Event/OutcomeIPIPIPWashout0 days0 days0 daysBlackout Period1 day1 day1 daySexFemalesComparison 19Comparison 20Comparison 21	·	
Lookback Period-183, 0 days-183, 0 days-183, 0 daysEvent/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Event/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Care Setting/PDXIPIPIPWashout0 days0 days0 days0 daysBlackout PeriodIdayIdayIdayIdayGastrointestinal Hemorrhage- FemaleSexFemalesFemalesFemales	·	
Event/OutcomeMajor Extracranial Bleeding1Major Extracranial Bleeding1Major Extracranial Bleeding1Care Setting/PDXIPIPIPWashout0 days0 days0 daysBlackout Period1 day1 day1 dayGastrointestinal Hemorrhage-FemaleComparison 19Comparison 20Comparison 20Females	ling <sup>1</sup>	
Care Setting/PDXIPIPIPWashout0 days0 days0 daysBlackout Period1 day1 day1 dayGastrointestinal Hemorrhage- FemaleComparison 19Comparison 20Comparison 20Comparison 21SexFemales	ling <sup>1</sup>	
Washout 0 days 0 days   Blackout Period 1 day 0 days   Understand 0 days 0 days   Comparison 19 Comparison 20 Comparison 21   Sex Females Females		
Blackout Period     1 day     1 day     1 day       Blackout Period     1 day     1 day       Gastrointestinal Hemorrhage- Female       Comparison 19     Comparison 20     Comparison 21       Sex     Females     Females		
Gastrointestinal Hemorrhage- Female       Comparison 19     Comparison 20     Comparison 21       Sex     Females     Females     Females		
Comparison 19Comparison 20Comparison 21SexFemalesFemalesFemales		
Sex Females Females Females Females		
	pixaban	
	vice daily	
Incident with Respect to: Apixaban, dabigatran, rivaroxaban, edoxaban, Apixaban, dabigatran, rivaroxaban, edoxaban, Apixaban, dabigatran, rivaroxaban, edoxaban,	n, edoxaban,	
warfarin (all doses) warfarin (all doses) warfarin (all doses)		
Incidence Assessment Dispensing date or days supply Dispensing date or days supply Dispensing date or days supply	upply	
Washout     183 days     183 days     183 days		
Cohort DefinitionFirst valid incident exposure episodeFirst valid incident exposure episodeFirst valid incident exposure episode	episode	
Stockpiling Overlapping Claims 33% 33% 33%		
Gastrointestinal Hemorrhage- Female		
Comparison 19 Comparison 20 Comparison 21		
Sex Females Females Females Females		
Episode Gap 3 days 3 days		
Episode Extension Period 3 days 3 days		
Minimum Episode Duration 1 day 1 day		
Maximum Episode Duration     None     None       None     1 day     1 day		
Minimum Days Supplied 1 day 1 day		
Censor Criteria Death, Query end date, Disenrollment, Event, End of Death, Query end date, Disenrollment, Event, End of Death, Query end date, Disenrollmen	nt, Event, End o	
exposure episode, Comparator drug dispensing, Low exposure episode, Comparator drug dispensing, Low exposure episode, Comparator drug d	dispensing, Lov	
dose of current exposure, Warfarin dispensing, dose of current exposure, Warfarin dispensing, dose of current exposure, Warfarin	. –	
Edoxaban dispensing, Apixaban dispensing, Kidney Edoxaban dispensing, Apixaban dispensing, Kidney Edoxaban dispensing, Apixaban disp		
transplant, Dialysis, IS encounter, Major extracranial transplant, Dialysis, IS encounter, Major extracranial transplant, Dialysis, IS encounter, Ma		
bleeding, Gastrointestinal hemorrhage, Intracranial bleeding, Gastrointestinal hemorrhage, Intracranial bleeding, Gastrointestinal hemorrhage	•	
	ige, inclaciania	
hemorrhage hemorrhage hemorrhage hemorrhage		
Inclusion/Exclusion		
Pre-Existing ConditionAtrial fibrillation or flutterAtrial fibrillation or flutter	Atrial fibrillation or flutter	



Include/Exclude	Incl	ude	Incl	Include		lude
Care Setting/PDX	Any		A	ny	Any	
Lookback Period	-183, 0	) days	-183,	0 days	-183,	0 days
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Exclude		Exclude		Exclude	
Lookback Period	0, 0 days		0, 0 days		0, 0 days	
Pre-Existing Condition	Institutional stay encounter		Institutional stay encounter		Institutional stay encounter	
Include/Exclude	Exclude		Exclude		Exclude	
Lookback Period	0, 0 days		0, 0 days		0, 0 days	
Pre-Existing Condition	Dialysis, Kidney replaceme	nt, Deep vein thrombosis,	Dialysis, Kidney replaceme	ent, Deep vein thrombosis,	Dialysis, Kidney replacem	ent, Deep vein thrombosis,
	Pulmonary embolism, Jo	int replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral		Pulmonary embolism, Joint replacement, Mitral	
	stenosis, Valve repla	cement, Valve repair	stenosis, Valve replacement, Valve repair		stenosis, Valve replacement, Valve repair	
Include/Exclude	Excl	ude	Exc	lude	Exc	lude
Care Setting/PDX	Any, except AV	OA for dialysis	Any, except AV/OA for dialysis		Any, except AV/OA for dialysis	
Lookback Period	-183, (	) days	-183,	0 days	-183, 0 days	

			Gastrointestinal Hemorrhage- Female			
	Compai	rison 19	Comparison 20		Comparison 21	
Sex	Females		Fem	nales	Fem	ales
Event/Outcome						
Event/Outcome	Gastrointestinal Hemorrhage <sup>2</sup>		Gastrointestina	al Hemorrhage <sup>2</sup>	Gastrointestina	al Hemorrhage <sup>2</sup>
Care Setting/PDX	11	р	I	Р	11	Р
Washout	0 d	0 days		ays	0 d	ays
Blackout Period	1 day		10	day	1 d	lay
	Intracranial Hemorrhage- Female					
	Comparison 22		Comparison 23		Comparison 24	
Sex	Fem	ales	Females		Females	
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:	Apixaban, dabigatran, r	rivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,	Apixaban, dabigatran, rivaroxaban, edoxaban	
	warfarin (	all doses)	warfarin	(all doses)	warfarin (all doses)	
Incidence Assessment	Dispensing date	e or days supply	Dispensing date or days supply		Dispensing date or days supply	
Washout	183	days	183	days	183 days	
Cohort Definition	First valid incident	exposure episode	First valid incident	t exposure episode	First valid incident	exposure episode
Stockpiling Overlapping Claims	33	8%	33	3%	33	8%
Episode Gap	3 d	ays	3 d	ays	3 days	



			Intracranial Hem	nial Hemorrhage- Female			
	Compa	rison 22	Compa	Comparison 23		rison 24	
Sex	Fem	nales	Fen	nales	Fen	nales	
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,	
	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	
Include/Exclude	Excl	lude	Exc	lude	Exc	lude	
Lookback Period	0, 0	days	0, 0	days	0, 0	days	
Pre-Existing Condition	Institutional s	Institutional stay encounter		stay encounter	Institutional stay encounter		
Include/Exclude	Exc	Exclude		Exclude		Exclude	
Lookback Period	0, 0	0, 0 days		0, 0 days		days	
Pre-Existing Condition	Dialysis, Kidney replacement, Deep vein thrombosis, Dialysis, Kidney replacement, Deep vein thromb		ent, Deep vein thrombosis,	s, Dialysis, Kidney replacement, Deep vein thrombosi			
		Pulmonary embolism, Joint replacement, Mitral		Pulmonary embolism, Joint replacement, Mitral		oint replacement, Mitral	
	, ,	stenosis, Valve replacement, Valve repair		stenosis, Valve replacement, Valve repair		stenosis, Valve replacement, Valve repair	
Include/Exclude	Exc	Exclude		Exclude		lude	
Care Setting/PDX	Any, except AV	/OA for dialysis	Any, except AV/OA for dialysis		Any, except AV/OA for dialysis		
Lookback Period	-183,	0 days	-183, 0 days		-183, 0 days		
Event/Outcome							
Event/Outcome	Intracranial	Hemorrhage	Intracranial	Hemorrhage	Intracranial	Hemorrhage	
Care Setting/PDX	1	Р		Р		Р	
Washout	0 d	ays	0 c	lays	0 0	lays	
Blackout Period	10	day	1 (	day	1	day	



		Thromboembolic Stroke - Male					
	Comparison 25		Compa	Comparison 26		rison 27	
Sex	Males		Ma	Males		ales	
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:	Apixaban, dabigatran, rivaroxaban, edoxaban,		Apixaban, dabigatran, rivaroxaban, edoxaban,		Apixaban, dabigatran, rivaroxaban, edoxaban,		
	warfarin (all doses)		warfarin (all doses)		warfarin (all doses)		
Incidence Assessment	Dispensing date or days supply		Dispensing date or days supply		Dispensing date or days supply		
Washout	183	days	183 days		183 days		
Cohort Definition	First valid incident	exposure episode	First valid incident exposure episode		First valid incident exposure episode		
Stockpiling Overlapping Claims	33	5%	33%		33%		
Episode Gap	3 d	ays	3 days		3 days		
Episode Extension Period	3 d	ays	3 days		3 days		
Minimum Episode Duration	1 d	lay	1 0	lay	1 day		
Maximum Episode Duration	No	ne	Nc	one	None		

			Thromboembolic Stroke - Male			
	Compa	rison 25	Comparison 26		Comparison 27	
Sex	Ma	lles	Ma	ales	M	ales
Minimum Days Supplied	1 c	lay	1 (	day	1	day
Censor Criteria						isenrollment, Event, End of
		re, Warfarin dispensing, Low		re, Warfarin dispensing,		rator drug dispensing, Low re, Warfarin dispensing,
	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney
	transplant, Dialysis, IS enc	ounter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracranial
	bleeding, Gastrointestina	hemorrhage, Intracranial	bleeding, Gastrointestinal hemorrhage, Intracranial		l bleeding, Gastrointestinal hemorrhage, Intracranial	
	hemorrhage		hemorrhage		hemorrhage	
Inclusion/Exclusion						
Pre-Existing Condition		Atrial fibrillation or flutter		Atrial fibrillation or flutter		tion or flutter
Include/Exclude	Incl		Include		Include	
Care Setting/PDX	A	,	Any		Any	
Lookback Period	-183,	0 days	-183,	0 days	-183,	0 days
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Excl	ude	Exc	lude	Exc	lude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition	Institutional s	tay encounter	Institutional s	stay encounter	Institutional	stay encounter
Include/Exclude	Excl	ude	Exc	lude	Exclude	
Lookback Period	0, 0	days	0, 0	days	0, 0	days



Pre-Existing Condition	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair	Dialysis, Kidney replacement, Deep vein thrombosis, Pulmonary embolism, Joint replacement, Mitral stenosis, Valve replacement, Valve repair
Include/Exclude Care Setting/PDX	Exclude Any, except AV/OA for dialysis	Exclude Any, except AV/OA for dialysis	Exclude Any, except AV/OA for dialysis
Lookback Period	-183, 0 days	-183, 0 days	-183, 0 days
Event/Outcome			
Event/Outcome	Thromboembolic Stroke	Thromboembolic Stroke	Thromboembolic Stroke
Care Setting/PDX	IP	IP	IP
Washout	0 days	0 days	0 days
Blackout Period	1 day	1 day	1 day

			Major Extracrani	al Bleeding- Male		
	Comparison 28		Compa	rison 29	Compai	rison 30
Sex	Ma	les	Ma	ales	Males	
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:	Apixaban, dabigatran, r	ivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,	Apixaban, dabigatran, r	rivaroxaban, edoxaban,
	warfarin (	all doses)	warfarin	(all doses)	warfarin (	all doses)
Incidence Assessment	Dispensing date	or days supply	Dispensing date	e or days supply	Dispensing date	e or days supply
Washout	183	days	183	days	183	days
Cohort Definition	First valid incident	exposure episode	First valid incident	: exposure episode	First valid incident	exposure episode
Stockpiling Overlapping Claims	33%		33%		33%	
Episode Gap	3 days		3 days		3 days	
Episode Extension Period	3 days		3 d	ays	3 d	ays
Minimum Episode Duration	1 day		10	lay	1 d	lay
Maximum Episode Duration	None		None		No	ne
Minimum Days Supplied	1 day		1 day		1 day	
Censor Criteria	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, Di	senrollment, Event, End of	Death, Query end date, Di	senrollment, Event, End c
	exposure episode, Compar	ator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Lov
	dose of current exposu			re, Warfarin dispensing,	dose of current exposu	
		xaban dispensing, Kidney	•	ixaban dispensing, Kidney		, 1 8,
	1 0, 1	1 0, 1	1 0, 1	1 0, 1	1 0, 1	1 0, 1
		· •			transplant, Dialysis, IS enc	
	bleeding, Gastrointestinal	0,	0.	l hemorrhage, Intracranial	3,	0,
	hemor	rhage	hemo	rrhage	hemor	rrhage
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat			tion or flutter	Atrial fibrillation or flutter	
Include/Exclude	Incl	ude	Incl	ude	Include	



Care Setting/PDX Lookback Period	Any -183, 0 days		Any -183, 0 davs		Any -183, 0 davs	
Pre-Existing Condition	Low-dose rivaroxaban, Low-dose dabigatran, dabigatran, apixaban, rivaroxaban, apixaban, ri				Low-dose dabigatran, Low-dose apixab	
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Exclude		Exclude		Exclude	
Lookback Period	0, 0	days	0, 0 days		0, 0 days	
Pre-Existing Condition	Institutional s	tay encounter	Institutional stay encounter		Institutional stay encounter	
Include/Exclude	Exclude		Exclude		Exclude	
Lookback Period	0, 0	days	0, 0 days		0, 0 days	

			Major Extracrani	al Bleeding- Male		
	Compar	ison 28	Compa	rison 29	Compa	rison 30
Sex	Ma	les	Ma	ales	Ma	ales
Pre-Existing Condition	Dialysis, Kidney replaceme Pulmonary embolism, Jo stenosis, Valve replac	int replacement, Mitral	Pulmonary embolism, Jo	ent, Deep vein thrombosis, pint replacement, Mitral cement, Valve repair		
Include/Exclude	Exclu	ıde	Excl	ude	Exc	lude
Care Setting/PDX	Any, except AV/	'OA for dialysis	Any, except AV	/OA for dialysis	Any, except AV	//OA for dialysis
Lookback Period	-183, 0	days	-183,	0 days	-183,	0 days
Event/Outcome						
Event/Outcome	Major Extracranial Bleeding <sup>1</sup> Major Extr		Major Extracra	anial Bleeding <sup>1</sup>	Major Extract	anial Bleeding <sup>1</sup>
Care Setting/PDX	IP		IP		IP	
Washout	0 days		0 days		0 days	
Blackout Period	1 day		1 c	lay	10	day
			Gastrointestinal H	emorrhage - Male	-	
	Compar	Comparison 31 Comparison 32		rison 32	Compa	rison 33
Sex	Ma	es	Males		Males	
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:	Apixaban, dabigatran, r	,	Apixaban, dabigatran, rivaroxaban, edoxaban,		,	,
incluent with Respect to.	warfarin (a			(all doses)	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin (all doses)	
Incidence Assessment	Dispensing date	,		e or days supply		e or days supply
Washout	183 c	, ,, ,		days		days
Cohort Definition	First valid incident			exposure episode		t exposure episode
Stockpiling Overlapping Claims	33			3%		3%
Episode Gap	3 da			avs		lavs
Episode Extension Period	3 da	,		ays		lays
Minimum Episode Duration	1 d	,	10	'		day
Maximum Episode Duration	No	•		one		one



Minimum Days Supplied	1 d	ау	1 0	lay	10	day
Censor Criteria	Death, Query end date, Dis	senrollment, Event, End of	Death, Query end date, Disenrollment, Event, End of		Death, Query end date, Disenrollment, Event, End	
	exposure episode, Comparator drug dispensing, Low exposure episode, Comparator drug dispensing, Low exposure episode, Comparator drug dispensing, L					
	dose of current exposur	e, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,
	Edoxaban dispensing, Api	xaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney
			transplant, Dialysis, IS enc			ounter, Major extracrania
	bleeding, Gastrointestinal			hemorrhage, Intracranial		l hemorrhage, Intracranial
	hemor	•	hemo	-	-	rrhage
			Gastrointestinal H	emorrhage - Male		
	Compar	ison 31	Compa	rison 32	Compa	rison 33
Sex	Ma	les	Ma	les	Ma	ales
Inclusion/Exclusion		·				· · · · ·
Pre-Existing Condition	Atrial fibrillat Inclu		Atrial fibrillat			tion or flutter ude
Include/Exclude	-			ude		
Care Setting/PDX	Ar -183, (			ny Didays		ny O dave
Lookback Period			-183, 0 days		-183, 0 days	
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
	dabigatran, apixaban,	rivaroxaban, apixaban,	· •	rivaroxaban, dabigatran,	rivaroxaban, apixaban,	rivaroxaban, dabigatran
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Exclude		-	ude		lude
Lookback Period	0, 0 days			days		days
Pre-Existing Condition	Institutional stay encounter		Institutional stay encounter		Institutional stay encounter Exclude	
Include/Exclude	Exclude		Exclude		0, 0 days	
Lookback Period	0, 0 (	Jays	0, 0 days 0,			days
Pre-Existing Condition	Dialysis, Kidney replaceme	nt, Deep vein thrombosis,	Dialysis, Kidney replaceme	ysis, Kidney replacement, Deep vein thrombosis,		ent, Deep vein thrombosis
	Pulmonary embolism, Joint replacement, Mitral		Pulmonary embolism, Joint replacement, Mitral		Pulmonary embolism, Joint replacement, Mitral	
	stenosis, Valve replac	cement, Valve repair	stenosis, Valve repla	cement, Valve repair	stenosis, Valve repla	cement, Valve repair
Include/Exclude	Excl	ude	Exc	ude	Exc	lude
Care Setting/PDX	Any, except AV		Any, except AV/OA for dialysis		Any, except AV/OA for dialysis	
Lookback Period	-183, 0	•	-183, 0 days		-183, 0 days	
Event/Outcome		,		·		·
Event/Outcome	Gastrointestina	l Hemorrhage <sup>2</sup>	Gastrointestina	al Hemorrhage <sup>2</sup>	Gastrointestin	al Hemorrhage <sup>2</sup>
Care Setting/PDX	IF	-		P		P
Washout	0 da	ays	0 d	ays	0 d	ays
Blackout Period	1 d	ay	1 day		10	day
			Intracranial Her	norrhage - Male		
	Compar	ison 34	Comparison 35		Comparison 36	
Sex	Ma	les	Ma	les	Males	
Drug/Exposure						



Daily Dose Requirement	Once daily	Twice daily	Once daily	Twice daily	Twice daily	Twice daily
Incident with Respect to:	Apixaban, dabigatran, r	rivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,
	warfarin (	all doses)	warfarin	(all doses)	warfarin	(all doses)
Incidence Assessment	Dispensing date	e or days supply	Dispensing date	e or days supply	Dispensing dat	e or days supply
Washout		days		days		days
Cohort Definition		exposure episode		: exposure episode		t exposure episode
Stockpiling Overlapping Claims	33	8%		3%	3	3%
				norrhage - Male	1	
	Compai			rison 35		rison 36
Sex	Ma			ales		ales
Episode Gap		ays ays		ays ays		lays lays
Episode Extension Period Minimum Episode Duration	1 d	•		ays Jay		day
Maximum Episode Duration	No	,		one		one
Minimum Days Supplied	1 d	-	-	lay		day
Censor Criteria						
			Death, Query end date, Di			
	exposure episode, Compar	rator drug dispensing, Low	exposure episode, Compa	rator drug dispensing, Low	exposure episode, Compa	irator drug dispensing, Lov
	dose of current exposur	re, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,	dose of current exposu	re, Warfarin dispensing,
	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney	Edoxaban dispensing, Ap	ixaban dispensing, Kidney
	transplant, Dialysis, IS enc	ounter, Major extracranial	transplant, Dialysis, IS enc	ounter, Major extracranial	transplant, Dialysis, IS end	counter, Major extracrania
	bleeding, Gastrointestina	hemorrhage, Intracranial	bleeding, Gastrointestina	l hemorrhage, Intracranial	bleeding, Gastrointestina	I hemorrhage, Intracrania
	hemor	-	-	rrhage	hemo	rrhage
	<u> </u>					
nclusion/Exclusion	Atrial fibrillat	ion or flutter	Atrial fibrillat	tion or flutter	Atrial fibrilla	tion or flutter
Pre-Existing Condition Include/Exclude		ude		ude		lude
Care Setting/PDX	-	זע	-	ny		ny
Lookback Period	-183, (	,		0 days		0 days
Pre-Existing Condition	Low-dose rivaroxaban,	Low-dose dabigatran,	Low-dose apixaban,	Low-dose apixaban,	Low-dose dabigatran,	Low-dose apixaban,
C C	dabigatran, apixaban,	rivaroxaban, apixaban,	rivaroxaban, dabigatran,		rivaroxaban, apixaban,	rivaroxaban, dabigatran
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	,	ude		ude	,	lude
Lookback Period	0,0			davs		days
Pre-Existing Condition	Institutional st	1	,	tay encounter	,	stay encounter
Include/Exclude		ude		lude		lude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition				•		
-			Dialysis, Kidney replaceme			
	Pulmonary embolism, Jo	•	•	pint replacement, Mitral	•	oint replacement, Mitral
	stenosis, Valve repla	cement, Valve repair	stenosis, Valve repla	cement, Valve repair	stenosis, Valve repla	acement, Valve repair
Include/Exclude	Fxcl	ude	Excl	ude	Fxc	lude



Lookback Period     -183, 0 days     -183, 0 days     -183, 0 days			
	Lookback Period		-183, 0 days

			Intracranial Her	norrhage - Male		
	Compa	rison 34	Compa	rison 35	Compa	rison 36
Sex	Ma	les	Ma	ales	Ma	ales
Event/Outcome						
Event/Outcome	Intracranial	Hemorrhage	Intracranial	Hemorrhage	Intracranial	Hemorrhage
Care Setting/PDX	1			Р		Ρ
Washout	0 d	ays		ays	0 c	lays
Blackout Period	10	lay	10	day	10	day
				tcome		
Sex	Males an	d Females	Males an	d Females	Males an	d Females
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:	Apixaban, dabigatran,	rivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,	Apixaban, dabigatran,	rivaroxaban, edoxaban,
	warfarin	all doses)	warfarin	(all doses)	warfarin	(all doses)
Incidence Assessment	Dispensing date	e or days supply	Dispensing date	e or days supply	Dispensing dat	e or days supply
Washout	183	days	183	days	183	days
Cohort Definition	First valid incident	exposure episode	First valid incident	t exposure episode	First valid inciden	t exposure episode
Stockpiling Overlapping Claims	33	8%	33	3%	33	3%
Episode Gap	3 d	ays	3 d	ays	3 c	lays
Episode Extension Period	3 d	ays	3 d	ays	3 c	lays
Minimum Episode Duration	10	lay	10	day	1 0	day
Maximum Episode Duration	No			one		one
Minimum Days Supplied	10	lay	10	day	1 0	day
Censor Criteria	Death, Query end date, Di	senrollment. Event. End of	Death, Query end date, Di	senrollment. Event. End of	Death. Query end date. D	isenrollment, Event, End of
			exposure episode, Compa			
		re, Warfarin dispensing,		re, Warfarin dispensing,		ire, Warfarin dispensing,
		, 1 8,	•	, , , , , , , , , , , , , , , , , , , ,	•	, , , , , , , , , , , , , , , , , , , ,
		ixaban dispensing, Kidney		ixaban dispensing, Kidney		ixaban dispensing, Kidney
		ounter, Major extracranial		ounter, Major extracranial		counter, Major extracranial
	<b>-</b>	hemorrhage, Intracranial		l hemorrhage, Intracranial	-	l hemorrhage, Intracranial
	hemo	rrhage	hemo	rrhage	hemo	rrhage
Inclusion/Exclusion						
Pre-Existing Condition	Atrial fibrillat	ion or flutter	Atrial fibrillat	tion or flutter	Atrial fibrilla	tion or flutter
Include/Exclude	Incl	ude	Incl	ude	Inc	lude
Care Setting/PDX	A	ny	A	ny	A	ny
Lookback Period	-183,	0 days	-183,	0 days	-183,	0 days



Pre-Existing Condition	Low-dose rivaroxaban	dabigatran, apixaban,	Low-dose apixaban, riv	varoxaban, dabigatran,	Low-dose dabigatran, I	rivaroxaban, apixaban,
	edoxaban	, warfarin	edoxaban	, warfarin	edoxaban	, warfarin
			No Ou	tcome		
Sex	Males and	d Females	Males an	d Females	Males and	d Females
Include/Exclude	Excl	ude	Excl	ude	Excl	ude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition	Institutional s	tay encounter	Institutional s	tay encounter	Institutional s	tay encounter
Include/Exclude	Excl	ude	Excl	ude	Excl	ude
Lookback Period	0, 0	days	0, 0	days	0, 0	days
Pre-Existing Condition	Dialysis, Kidney replaceme	ent, Deep vein thrombosis,	Dialysis, Kidney replaceme	ent, Deep vein thrombosis,	Dialysis, Kidney replaceme	ent, Deep vein thrombosis,
	Pulmonary embolism, Jo			pint replacement, Mitral	Pulmonary embolism, Jo	
		cement, Valve repair	•	cement, Valve repair	stenosis, Valve repla	•
Include/Exclude	Excl	ude	Excl	ude	Excl	ude
Care Setting/PDX	Any, except AV	/OA for dialysis	Any, except AV	/OA for dialysis	Any, except AV	/OA for dialysis
Lookback Period	-183,			, O days	-183, (	•
Event/Outcome		·		,		•
Event/Outcome	No	ne	No	one	No	ne
Care Setting/PDX	N	/Α	N	/A	N/	/Α
Washout	N	/Α	N	/A	N/	/Α
Blackout Period	N,	/Α	N	/A	N/	/Α
			No Ou	tcome		
Sex	Fem	ales	Fem	ales	Fem	ales
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:	Apixaban, dabigatran, i			rivaroxaban, edoxaban,	Apixaban, dabigatran, r	
	warfarin	,		(all doses)	warfarin (	,
Incidence Assessment		e or days supply		e or days supply	Dispensing date	
Washout	183	,		days	183	,
Cohort Definition	First valid incident			exposure episode	First valid incident	
Stockpiling Overlapping Claims	33			3%	33	
Episode Gap		ays		ays	3 d	•
Episode Extension Period		ays		ays	3 d	
Minimum Episode Duration	1 0	,		lay	1 d	•
Maximum Episode Duration	No	-	-	one	No	-
Minimum Days Supplied	1 c	ау	1 c	lay	1 d	lay



			No Ou	tcome		
Sex	Fema	lles	Fem	ales	Fema	ales
Censor Criteria		ator drug dispensing, Low e, Warfarin dispensing, saban dispensing, Kidney unter, Major extracranial hemorrhage, Intracranial	exposure episode, Compar dose of current exposur Edoxaban dispensing, Api transplant, Dialysis, IS enco	ator drug dispensing, Low e, Warfarin dispensing, xaban dispensing, Kidney ounter, Major extracranial hemorrhage, Intracranial		ator drug dispensing, Lov e, Warfarin dispensing, xaban dispensing, Kidney punter, Major extracrania hemorrhage, Intracrania
Pre-Existing Condition	Atrial fibrillati	on or flutter	Atrial fibrillat	ion or flutter	Atrial fibrillati	on or flutter
Include/Exclude	Inclu	de	Incl	ude	Inclu	ıde
Care Setting/PDX	An		Ar	,	An	•
Lookback Period	-183, 0	1	-183, (	1	-183, 0	days
Pre-Existing Condition	Low-dose rivaroxaban,	dabigatran, apixaban,	Low-dose apixaban, riv	aroxaban, dabigatran,	Low-dose dabigatran, r	ivaroxaban, apixaban,
	edoxaban,	warfarin	edoxaban	, warfarin	edoxaban,	warfarin
Include/Exclude	Exclu	ıde	Excl	ude	Exclu	ude
Lookback Period	0, 0 d	ays	0, 0 (	days	0,0 c	lays
Pre-Existing Condition	Institutional st	ay encounter	Institutional st	tay encounter	Institutional st	ay encounter
Include/Exclude	Exclu	de	Excl	ude	Exclu	ude
Lookback Period	0, 0 d	/	0, 0 (	1	0, 0 c	,
Pre-Existing Condition	Dialysis, Kidney replacement	nt, Deep vein thrombosis,	Dialysis, Kidney replaceme	nt, Deep vein thrombosis,	Dialysis, Kidney replaceme	nt, Deep vein thrombosi
Include/Exclude	Exclu		Excl		Exclu	
Care Setting/PDX	Any, except AV/	OA for dialysis	Any, except AV/OA for dialysis		Any, except AV/OA for dialysis	
Lookback Period	-183, 0	days	-183, (	) days	-183, 0	days
Event/Outcome						
Event/Outcome	Nor	-	No	-	Nor	
Care Setting/PDX	N/.	4	N/	Ά	N/.	A
Washout	N/2	4	N/	Ά	N/.	A
Blackout Period	N/2	4	N/	Ά	N/.	A
			No Ou	tcome		
Sex	Mal	es	Ma	les	Ma	les
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:	Apixaban, dabigatran, ri warfarin (a		Apixaban, dabigatran, r warfarin (		Apixaban, dabigatran, ri warfarin (a	

		No Outcome	
Sex	Males	Males	Males



Incidence Assessment	Dispensing date or days supply	Dispensing date or days supply	Dispensing date or days supply
Washout	183 days	183 days	183 days
Cohort Definition	First valid incident exposure episode	First valid incident exposure episode	First valid incident exposure episode
	33%	33%	33%
Stockpiling Overlapping Claims Episode Gap	3 days	3 days	3 days
Episode Gap Episode Extension Period	3 days	3 days	3 days
Minimum Episode Duration	1 day	1 day	1 day
Maximum Episode Duration	None	None	None
Minimum Days Supplied	1 day	1 day	1 day
Censor Criteria	2 007	1 000	1 007
censor cinteria	Death, Query end date, Disenrollment, Event, End of	Death, Query end date, Disenrollment, Event, End of	Death, Query end date, Disenrollment, Event, End of
	exposure episode, Comparator drug dispensing, Low	exposure episode, Comparator drug dispensing, Low	exposure episode, Comparator drug dispensing, Low
	dose of current exposure, Warfarin dispensing,	dose of current exposure, Warfarin dispensing,	dose of current exposure, Warfarin dispensing,
	Edoxaban dispensing, Apixaban dispensing, Kidney	Edoxaban dispensing, Apixaban dispensing, Kidney	Edoxaban dispensing, Apixaban dispensing, Kidney
		transplant, Dialysis, IS encounter, Major extracranial	
		bleeding, Gastrointestinal hemorrhage, Intracranial	
	hemorrhage	hemorrhage	hemorrhage
	nemornage	Hemorriage	nemonnage
Inclusion/Exclusion			
Pre-Existing Condition	Atrial fibrillation or flutter	Atrial fibrillation or flutter	Atrial fibrillation or flutter
Include/Exclude	Include	Include	Include
Care Setting/PDX	Any	Any	Any
Lookback Period	-183, 0 days	-183, 0 days	-183, 0 days
Pre-Existing Condition	Low-dose rivaroxaban, dabigatran, apixaban,	Low-dose apixaban, rivaroxaban, dabigatran,	Low-dose dabigatran, rivaroxaban, apixaban,
	edoxaban, warfarin	edoxaban, warfarin	edoxaban, warfarin
Include/Exclude	Exclude	Exclude	Exclude
Lookback Period	0, 0 days	0, 0 days	0, 0 days
Pre-Existing Condition	Institutional stay encounter	Institutional stay encounter	Institutional stay encounter
Include/Exclude	Exclude	Exclude	Exclude
Lookback Period	0, 0 days	0, 0 days	0, 0 days
Pre-Existing Condition			
	Dialysis, Kidney replacement, Deep vein thrombosis,		Dialysis, Kidney replacement, Deep vein thrombosis,
	Pulmonary embolism, Joint replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral	Pulmonary embolism, Joint replacement, Mitral
	stenosis, Valve replacement, Valve repair	stenosis, Valve replacement, Valve repair	stenosis, Valve replacement, Valve repair
Include/Exclude	Exclude	Exclude	Exclude
Care Setting/PDX	Any, except AV/OA for dialysis	Any, except AV/OA for dialysis	Any, except AV/OA for dialysis
Lookback Period	-183, 0 days	-183, 0 days	-183, 0 days
	· · ·	· · ·	· · ·
		No Outcome	

	No Outcome		
Sex	Males	Males	Males
Event/Outcome			
Event/Outcome	None	None	None



Care Setting/PDX	N/A	N/A	N/A
Washout	N/A	N/A	N/A
Blackout Period	N/A	N/A	N/A

<sup>1</sup>The major extracranial bleed outcome is defined as**a**) one code from "MEB\_1" tab in the primary inpatient position AND no code from "MEB\_trauma\_exclusion" on the same day OR**b**) one code from "MEB\_2" in the primary inpatient position AND 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

International Classification of Diseases, Ninth Revision (ICD-9) and Tenth Revision (ICD-10), Healthcare Common Precedure Coding System (HCPCS), and Current Procedural Terminology (CPT) codes are provided by Optum360. National Drug Codes (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."



covariate	<b>Evaluation Window</b>	Care Settings
ge (Continuous)	Index date	-
ge Group (Years)		
65-74	Index date	-
75-84	Index date	-
85+	Index date	-
ex		
Female	Index date	-
lace		
American Indian or Alaska Native	Index date	-
Asian	Index date	-
Black or African American	Index date	-
Native Hawaiian or Other Pacific Islander	Index date	-
White	Index date	-
Unknown	Index date	-
ear		
2010	Index date	-
2011	Index date	-
2012	Index date	-
2013	Index date	-
2014	Index date	-
2015	Index date	-
Aedical Comorbidities		
Diabetes	-183 to 0 days	Any
Hypercholesterolemia	-183 to 0 days	Any
Hypertension	-183 to 0 days	Any
Kidney failure		
Acute	-183 to 0 days	Any
Chronic	-183 to 0 days	Any
Obesity	-183 to 0 days	Any
Peptic ulcer disease	-183 to 0 days	Any
Prior hospitalized bleeding	-183 to 0 days	IPP
Nicotine dependency	-183 to 0 days	Any
Cardiovascular disease		
Acute myocardial infarction		
Past 1-30 days	-30 to 0 days	IPP or IPS
Past 31-183 days	-183 to -31 days	IPP or IPS
Coronary revascularization	-183 to 0 days	Any
Heart failure		
Hospitalized	-183 to 0 days	IP* or ED*
Outpatient	-183 to 0 days	AV* or OA*
Other ischemic heart disease	-183 to 0 days	Any
Stroke		
Past 1-30 days	-30 to 0 days	IPP
Past 31-183 days	-183 to -31 days	IPP
Other	· ·	



# Appendix K. Specifications Defining Parameters for Baseline Covariate Groups in this Request

Covariate	Evaluation Window	Care Settings
Transient ischemic attack	-183 to 0 days	Any
Cardioablation	-183 to 0 days	Any
Cardioversion	-183 to 0 days	Any
Other medical conditions		
Falls	-183 to 0 days	Any
Fractures	-183 to 0 days	Any
Syncope	-183 to 0 days	Any
Walker use	-183 to 0 days	Any
CHA <sub>2</sub> DS <sub>2</sub> -VASc score <sup>2</sup>		
0-1	-183 to 0 days	-
2	-183 to 0 days	-
3	-183 to 0 days	-
4	-183 to 0 days	-
5	-183 to 0 days	-
≥6	-183 to 0 days	-
HAS-BLED score <sup>3</sup>		
0-1	-183 to 0 days	-
2	-183 to 0 days	-
3	-183 to 0 days	-
≥4	-183 to 0 days	-
Medication Use	· ·	
General		
Estrogen replacement	-183 to 0 days	-
H2-antagonists	-183 to 0 days	-
NSAIDs	-183 to 0 days	-
Proton pump inhibitors	-183 to 0 days	-
SSRI antidepressants	-183 to 0 days	-
Cardiovascular		
ACEI/ARB	-183 to 0 days	-
Antiarrhythmics	-183 to 0 days	-
Anticoagulants (injectable)	-183 to 0 days	-
Anti-platelets	-183 to 0 days	-
Beta-blockers	-183 to 0 days	-
Calcium channel blockers	-183 to 0 days	-
Digoxin	-183 to 0 days	-
Diuretics		
Loop	-183 to 0 days	-
Potassium sparing	-183 to 0 days	-
Thiazide	-183 to 0 days	-
Nitrates	-183 to 0 days	-
Statins	-183 to 0 days	-
Fibrates	-183 to 0 days	-
Diabetes-Related		
Insulin	-183 to 0 days	_
Metformin	-183 to 0 days	-
Sulfonylureas	-183 to 0 days	-
Other	-183 to 0 days	



# Appendix K. Specifications Defining Parameters for Baseline Covariate Groups in this Request

Covariate	Evaluation Window	Care Settings
Metabolic Inhibitors		
Amiodarone	-183 to 0 days	-
Dronedarone	-183 to 0 days	-
Health Care Utilization		
Number of inpatient hospital stays	-183 to 0 days	IP*
Number of emergency department visits	-183 to 0 days	ED*
Number of ambulatory visits	-183 to 0 days	AV*
Drug Utilization		
Number of unique generics dispensed	-183 to 0 days	-



	PS Models	PS Models Comparison			Analyses			
Model Number	Model	Comparison	Exposure of Interest	Reference	PS Model Label	Analysis Name 1	Analysis Name 2	Analysis Name 3
1	Rivaroxaban vs. Dabigatran	Rivaroxaban vs. Dabigatran, Stroke	riv_stroke	dab_stroke	riv_dab_stroke	riv_dab_stroke_0	riv_dab_stroke_1	riv_dab_stroke_2.5
2	Rivaroxaban vs. Apixaban	Rivaroxaban vs. Apixaban, Stroke	riv_stroke	apx_stroke	riv_apx_stroke	riv_apx_stroke_0	riv_apx_stroke_1	riv_apx_stroke_2.5
3	Dabigatran vs. Apixaban	Dabigatran vs. Apixaban, Stroke	dab_stroke	apx_stroke	dab_apx_stroke	dab_apx_stroke_0	dab_apx_stroke_1	dab_apx_stroke_2.5
4	Rivaroxaban vs. Dabigatran	Rivaroxaban vs. Dabigatran, Major Extracranial Bleeding	riv_meb	dab_meb	riv_dab_meb	riv_dab_meb_0	riv_dab_meb_1	riv_dab_meb_2.5
5	Rivaroxaban vs. Apixaban	Rivaroxaban vs. Apixaban, Major Extracranial Bleeding	riv_meb	apx_meb	riv_apx_meb	riv_apx_meb_0	riv_apx_meb_1	riv_apx_meb_2.5
6	Dabigatran vs. Apixaban	Dabigatran vs. Apixaban, Major Extracranial Bleeding	dab_meb	apx_meb	dab_apx_meb	dab_apx_meb_0	dab_apx_meb_1	dab_apx_meb_2.5
7	Rivaroxaban vs. Dabigatran	Rivaroxaban vs. Dabigatran, Gastrointestinal Hemorrhage	riv_gi	dab_gi	riv_dab_gi	riv_dab_gi_0	riv_dab_gi_1	riv_dab_gi_2.5
8	Rivaroxaban vs. Apixaban	Rivaroxaban vs. Apixaban, Gastrointestinal Hemorrhage	riv_gi	apx_gi	riv_apx_gi	riv_apx_gi_0	riv_apx_gi_1	riv_apx_gi_2.5
9	Dabigatran vs. Apixaban	Dabigatran vs. Apixaban, Gastrointestinal Hemorrhage	dab_gi	apx_gi	dab_apx_gi	dab_apx_gi_0	dab_apx_gi_1	dab_apx_gi_2.5
10	Rivaroxaban vs. Dabigatran	Rivaroxaban vs. Dabigatran, Intracranial Hemorrhage	riv_ich	dab_ich	riv_dab_ich	riv_dab_ich_0	riv_dab_ich_1	riv_dab_ich_2.5
11	Rivaroxaban vs. Apixaban	Rivaroxaban vs. Apixaban, Intracranial Hemorrhage	riv_ich	apx_ich	riv_apx_ich	riv_apx_ich_0	riv_apx_ich_1	riv_apx_ich_2.5
12	Dabigatran vs. Apixaban	Dabigatran vs. Apixaban, Intracranial Hemorrhage	dab_ich	apx_ich	dab_apx_ich	dab_apx_ich_0	dab_apx_ich_1	dab_apx_ich_2.5

Appendix L. Specifications Defining Parameters for Propensity	y Score (PS)	Models in this Request

	PS Models	Comparison					Analyses	
Model			Exposure of					
Number	Model	Comparison	Interest	Reference	PS Model Label	Analysis Name 1	Analysis Name 2	Analysis Name 3



13	Rivaroxaban vs. Dabigatran, Female	Rivaroxaban vs. Dabigatran, Stroke	riv_stroke_f	dab_stroke_f	riv_dab_stroke_f	riv_dab_stroke_f_0	riv_dab_stroke_f_1	riv_dab_stroke_f_2.5
14	Rivaroxaban vs. Apixaban, Female	Rivaroxaban vs. Apixaban, Stroke	riv_stroke_f	apx_stroke_f	riv_apx_stroke_f	riv_apx_stroke_f_0	riv_apx_stroke_f_1	riv_apx_stroke_f_2.5
15	Dabigatran vs. Apixaban, Female	Dabigatran vs. Apixaban, Stroke	dab_stroke_f	apx_stroke_f	dab_apx_stroke_f	dab_apx_stroke_f_0	dab_apx_stroke_f_1	dab_apx_stroke_f_2.5
16	Rivaroxaban vs. Dabigatran, Female	Rivaroxaban vs. Dabigatran, Major Extracranial Bleeding	riv_meb_f	dab_meb_f	riv_dab_meb_f	riv_dab_meb_f_0	riv_dab_meb_f_1	riv_dab_meb_f_2.5
17	Rivaroxaban vs. Apixaban, Female	Rivaroxaban vs. Apixaban, Major Extracranial Bleeding	riv_meb_f	apx_meb_f	riv_apx_meb_f	riv_apx_meb_f_0	riv_apx_meb_f_1	riv_apx_meb_f_2.5
18	Dabigatran vs. Apixaban, Female	Dabigatran vs. Apixaban, Major Extracranial Bleeding	dab_meb_f	apx_meb_f	dab_apx_meb_f	dab_apx_meb_f_0	dab_apx_meb_f_1	dab_apx_meb_f_2.5
19	Rivaroxaban vs. Dabigatran, Female	Rivaroxaban vs. Dabigatran, Gastrointestinal Hemorrhage	riv_gi_f	dab_gi_f	riv_dab_gi_f	riv_dab_gi_f_0	riv_dab_gi_f_1	riv_dab_gi_f_2.5
20	Rivaroxaban vs. Apixaban, Female	Rivaroxaban vs. Apixaban, Gastrointestinal Hemorrhage	riv_gi_f	apx_gi_f	riv_apx_gi_f	riv_apx_gi_f_0	riv_apx_gi_f_1	riv_apx_gi_f_2.5
21	Dabigatran vs. Apixaban, Female	Dabigatran vs. Apixaban, Gastrointestinal Hemorrhage	dab_gi_f	apx_gi_f	dab_apx_gi_f	dab_apx_gi_f_0	dab_apx_gi_f_1	dab_apx_gi_f_2.5
22	Rivaroxaban vs. Dabigatran, Female	Rivaroxaban vs. Dabigatran, Intracranial Hemorrhage	riv_ich_f	dab_ich_f	riv_dab_ich_f	riv_dab_ich_f_0	riv_dab_ich_f_1	riv_dab_ich_f_2.5
23	Rivaroxaban vs. Apixaban, Female	Rivaroxaban vs. Apixaban, Intracranial Hemorrhage	riv_ich_f	apx_ich_f	riv_apx_ich_f	riv_apx_ich_f_0	riv_apx_ich_f_1	riv_apx_ich_f_2.5
24	Dabigatran vs. Apixaban, Female	Dabigatran vs. Apixaban, Intracranial Hemorrhage	dab_ich_f	apx_ich_f	dab_apx_ich_f	dab_apx_ich_f_0	dab_apx_ich_f_1	dab_apx_ich_f_2.5

	PS Models	Comparison					Analyses	
Model			Exposure of					
Number	Model	Comparison	Interest	Reference	PS Model Label	Analysis Name 1	Analysis Name 2	Analysis Name 3
25	Rivaroxaban vs. Dabigatran, Male	Rivaroxaban vs. Dabigatran, Stroke	riv_stroke_m	dab_stroke_m	riv_dab_stroke_m	riv_dab_stroke_m_0	riv_dab_stroke_m_1	riv_dab_stroke_m_2.5



26	Rivaroxaban vs. Apixaban, Male	Rivaroxaban vs. Apixaban, Stroke	riv_stroke_m	apx_stroke_m	riv_apx_stroke_m	riv_apx_stroke_m_0	riv_apx_stroke_m_1	riv_apx_stroke_m_2.5
27	Dabigatran vs. Apixaban, Male	Dabigatran vs. Apixaban, Stroke	dab_stroke_m	apx_stroke_m	dab_apx_stroke_m	dab_apx_stroke_m_0	dab_apx_stroke_m_1	dab_apx_stroke_m_2.5
28	Rivaroxaban vs. Dabigatran, Male	Rivaroxaban vs. Dabigatran, Major Extracranial Bleeding	riv_meb_m	dab_meb_m	riv_dab_meb_m	riv_dab_meb_m_0	riv_dab_meb_m_1	riv_dab_meb_m_2.5
29	Rivaroxaban vs. Apixaban, Male	Rivaroxaban vs. Apixaban, Major Extracranial Bleeding	riv_meb_m	apx_meb_m	riv_apx_meb_m	riv_apx_meb_m_0	riv_apx_meb_m_1	riv_apx_meb_m_2.5
30	Dabigatran vs. Apixaban, Male	Dabigatran vs. Apixaban, Major Extracranial Bleeding	dab_meb_m	apx_meb_m	dab_apx_meb_m	dab_apx_meb_m_0	dab_apx_meb_m_1	dab_apx_meb_m_2.5
31	Rivaroxaban vs. Dabigatran, Male	Rivaroxaban vs. Dabigatran, Gastrointestinal Hemorrhage	riv_gi_m	dab_gi_m	riv_dab_gi_m	riv_dab_gi_m_0	riv_dab_gi_m_1	riv_dab_gi_m_2.5
32	Rivaroxaban vs. Apixaban, Male	Rivaroxaban vs. Apixaban, Gastrointestinal Hemorrhage	riv_gi_m	apx_gi_m	riv_apx_gi_m	riv_apx_gi_m_0	riv_apx_gi_m_1	riv_apx_gi_m_2.5
33	Dabigatran vs. Apixaban, Male	Dabigatran vs. Apixaban, Gastrointestinal Hemorrhage	dab_gi_m	apx_gi_m	dab_apx_gi_m	dab_apx_gi_m_0	dab_apx_gi_m_1	dab_apx_gi_m_2.5
34	Rivaroxaban vs. Dabigatran, Male	Rivaroxaban vs. Dabigatran, Intracranial Hemorrhage	riv_ich_m	dab_ich_m	riv_dab_ich_m	riv_dab_ich_m_0	riv_dab_ich_m_1	riv_dab_ich_m_2.5
35	Rivaroxaban vs. Apixaban, Male	Rivaroxaban vs. Apixaban, Intracranial Hemorrhage	riv_ich_m	apx_ich_m	riv_apx_ich_m	riv_apx_ich_m_0	riv_apx_ich_m_1	riv_apx_ich_m_2.5
36	Dabigatran vs. Apixaban, Male	Dabigatran vs. Apixaban, Intracranial Hemorrhage	dab_ich_m	apx_ich_m	dab_apx_ich_m	dab_apx_ich_m_0	dab_apx_ich_m_1	dab_apx_ich_m_2.5

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# **PS Estimation Parameters**

Covariates	See Appendix K
High-Dimensional Propensity Score	No

# PS Analysis (Inverse Probability of Treatment Weighting)

	Analysis Group
Analysis Name	All listed above
Inverse Probability Weight Calculation	Average Treatment Effect Stabilized
Weight Truncation?	- No truncation
	- 1st percentile truncation
	- 2.5 percentile truncation





Window 2: Low-dose of exposure of interest, other anticoagulants, institutional stay

Window II: Various conditions and medications