

# Disclaimer

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

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

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

The following report contains a description of the request, request specifications, and results from the modular program run(s). If you are using a web page screen reader and are unable to access this document, please contact the Sentinel Operations Center for assistance at info@sentinelsystem.org.



## Overview for Request: cder\_mpl1r\_wp056

## Request ID: cder\_mpl1r\_wp056

<u>Request Description</u>: The first goal of this request was to obtain counts of new users of apixaban and warfarin among patients in the Sentinel Distributed Database (SDD). The second goal of this request was to examine incidence rates of ischemic stroke, intracranial hemorrhage, and gastrointestinal hemorrhage among respectively new users of apixaban and warfarin with non-valvular atrial fibrillation.

## Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.1.1

**Data Source:** We identified new users between February 1, 2013 and August 31, 2017 from data of 17 Data Partners (DPs) contributing to the SDD. This request was distributed to DPs on February 1, 2018. See Appendix A for a list of dates of available data for each DP.

<u>Study Design</u>: This request adopted a retrospective new user cohort study design. We estimated the number of apixaban and warfarin new users and the incidence rates of ischemic stroke, intracranial hemorrhage, and gastrointestinal hemorrhage in respective cohorts. We reported the estimates overall and stratified by age, sex, and year.

**Exposures of Interest:** The exposures of interest were apixaban and warfarin, which were defined using National Drug Codes (NDCs) recorded in outpatient pharmacy dispensing records. Please see Appendix B for a list of generic and brand drug names of medical products used to define exposures in this request.

<u>Outcomes of Interest</u>: The outcomes of interest were gastrointestinal hemorrhage, intracranial hemorrhage, and ischemic stroke, which were defined using International Classification of Diseases, Ninth and Tenth Revisions, Clinical Modification (ICD-9-CM and ICD-10-CM) diagnosis codes. All outcomes were ascertained in the inpatient care setting in the primary diagnosis position. Intracranial hemorrhage was additionally defined using a diagnosis code in the inpatient care setting in either a primary or secondary diagnosis position. Please see Appendix C for a list of codes used to define outcomes in this request.

Cohort Eligibility Criteria: Three query periods were evaluated in this request: February 1, 2013 to August 31, 2017; February 1, 2013 to September 30, 2015; and October 1, 2015 to August 31, 2017. Individuals included in each cohort were required to be continuously enrolled in health plans with medical and drug coverage for at least 183 days prior to their first valid exposure, during which gaps in coverage of up to 45 days were allowed. The following age groups were included in the cohort: 21-64, 65-74, 75-84, and 85-99 years. Only the first valid exposure episode during the query period was considered; no cohort re-entry was allowed. New users of apixaban or warfarin were defined as member with no use of any anticoagulant (apixaban, dabigatran, rivaroxaban, edoxaban, or warfarin) in the 183 days prior to their exposure index date. Members were eligible if they had a diagnosis of non-valvular atrial fibrillation in the 183 days prior to and including their exposure index date. Members were ineligible if they had evidence of the following conditions/procedures in the 183 days prior to and including their exposure index date: dialysis (outpatient care setting), kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement, or valve repair. Inclusion and exclusion criteria were defined using ICD-9-CM, ICD-10-CM, International Classification of Diseases, Tenth Revision, Procedure Coding System codes (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes. See Appendices D and E for a list of codes used to define inclusion and exclusion criteria in this request.

**Follow-Up Time:** We determined follow-up time based on by length of the first valid exposure episode. Exposure episode lengths were defined using days supply recorded in outpatient pharmacy dispensing records to create a sequence of continuous exposure. Continuous exposure episodes must have gaps in days supply 7 days or less and an extension of 7 days appended to exhaustion of total days supply. Follow-up began on the exposure index date and continued until the first occurrence of any of the following: 1) disenrollment; 2) the end date of the data provided by each DP (see Appendix A); 3) query end date; 4) the end of the index exposure episode; 5) a dispensing of a different anti-coagulant; or 6) occurrence of the outcome. Exposure episodes were excluded if the event of interest occurred on the same day as exposure index date.



#### Overview for Request: cder\_mpl1r\_wp056, continued

**Baseline Characteristics:** The following characteristics were assessed on the exposure index date: age, year, sex, and in the 183 days prior to and including the exposure index date: Charlson/Elixhauser combined comorbidity score<sup>1</sup>, health service utilization, gastrointestinal hemorrhage, intracranial hemorrhage (primary diagnosis position only), intracranial hemorrhage (primary or secondary diagnosis position), kidney disease, and ischemic stroke. Gastrointestinal hemorrhage, intracranial hemorrhage, and ischemic stroke were identified by a diagnosis code within inpatient care setting only. Kidney disease was identified by a diagnosis code within any care setting. ICD-9-CM and ICD-10-CM diagnosis codes were used to define kidney disease, gastrointestinal hemorrhage, intracranial hemorrhage, and ischemic stroke. Please refer to Appendix F for a list of codes used to define characteristics in this request.

<u>Limitations</u>: Algorithms used to define exposures and inclusion criteria are not necessarily validated. Measures in this request are subject to misclassification.

#### Please see Appendices G and G.1 for the specifications of parameters used in the analyses in this request.

<u>Notes</u>: Please contact the Sentinel Operations Center Query Fulfillment Team (qf@sentinelsystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

**Switch Gap Inclusion Indicator - i**ndicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

**Switch Pattern Cohort Inclusion Date** - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

**Switch Pattern Cohort Inclusion Strategy - i**ndicates 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 listed above may not be used in this report.



 Table 1a. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Gastrointestinal Hemorrhage in the Sentinel Distributed

 Database (SDD) between February 1, 2013 and September 30, 2015

	Apixa	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	150,809	100.0%	320,280	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	75.9	9.1	76.1	9.5	-0.20	-0.02
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	15,569	10.3%	34,506	10.8%	-0.50	-0.02
65-74	52,354	34.7%	103,397	32.3%	2.40	0.05
75-84	55,674	36.9%	122,277	38.2%	-1.30	-0.03
85-99	27,212	18.0%	60,100	18.8%	-0.80	-0.02
Sex						
Female	****	* * * * *	****	* * * * *	****	* * * * *
Male	75,253	49.9%	167,811	52.4%	-2.50	-0.05
Other	****	****	****	****	****	****
Year						
2013	16,816	11.2%	126,838	39.6%	-28.40	-0.69
2014	58,984	39.1%	117,361	36.6%	2.50	0.05
2015	75,009	49.7%	76,081	23.8%	25.90	0.56
		Standard	- ,	Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.8	2.6	3.3	2.9	-0.5	-0.18
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	571	0.4%	1,985	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	164	0.1%	469	0.1%	0.00	0.00
Intracranial hemorrhage, inpatient (primary or	520	0.3%	1,607	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	28,383	18.8%	75,078	23.4%	-4.60	-0.11
Ischemic stroke, inpatient (primary)	6,090	4.0%	16,964	5.3%	-1.30	-0.06
	·	Standard	·	Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	12.1	8.3	12.0	8.8	0.10	0.01
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00
weath number of emergency room encounters						
<b>u</b>		0.8	0.7	0.9	-0.10	-0.12
Mean number of inpatient hospital encounters	0.6 0.1	0.8 0.5	0.7 0.2	0.9 0.6	-0.10 -0.10	-0.12 -0.18
• •	0.6					
Mean number of inpatient hospital encounters Mean number of non-acute institutional encounters	0.6 0.1	0.5	0.2	0.6	-0.10	-0.18
Mean number of inpatient hospital encounters Mean number of non-acute institutional encounters Mean number of other ambulatory encounters	0.6	0.5 7.6	0.2 6.6			
Mean number of inpatient hospital encounters Mean number of non-acute institutional encounters	0.6 0.1 4.8	0.5	0.2	0.6 10.0	-0.10 -1.80	-0.18 -0.20

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



 Table 1b. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Gastrointestinal Hemorrhage in the Sentinel Distributed

 Database (SDD) between October 1, 2015 and August 31, 2017

	Apix	aban	Warfarin		Covariate Balance	
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	82,316	100.0%	57,812	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	73	10.4	74.6	10.1	-1.60	-0.16
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	18,702	22.7%	9,803	17.0%	5.70	0.14
65-74	26,139	31.8%	18,318	31.7%	0.10	0.00
75-84	25,352	30.8%	20,253	35.0%	-4.20	-0.09
85-99	12,123	14.7%	9,438	16.3%	-1.60	-0.04
Sex						
Female	****	****	****	****	****	****
Male	45,018	54.7%	32,777	56.7%	-2.00	-0.04
Other	****	* * * * *	****	****	****	****
Year						
2015	30,701	37.3%	24,484	42.4%	-5.10	-0.10
2016	35,106	42.6%	24,281	42.0%	0.60	0.01
2017	16,509	20.1%	9,047	15.6%	4.50	0.12
	-,	Standard	- / -	Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	3.1	2.7	3.5	2.9	-0.4	-0.14
charisony Envirouser combined comorbiarty score	Number of		Number of	-	Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
	383	0.5%	392	0.7%	-0.20	-0.03
Gastrointestinal hemorrhage, inpatient (primary)	303	01070	332	0.770	0.20	0.00
Intracranial hemorrhage, inpatient (primary)	92	0.1%	107	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary)	286	0.3%	341	0.6%	-0.30	-0.04
secondary)	200	0.570	541	0.076	-0.50	-0.04
Kidney disease, any care setting	16,059	19.5%	15,238	26.4%	-6.90	-0.16
Ischemic stroke, inpatient (primary)	3,514	4.3%	2,678	20.4 <i>%</i> 4.6%	-0.30	-0.10
ischemic stroke, inpatient (primary)	5,514		2,078			
Haaldh Comies Utilization Intensity	Maan	Standard	Maan	Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.7	9.1	11.5	9.4	0.20	0.02
Mean number of emergency room encounters	0.6	1.0	0.6	1.1	0.00	0.00
Mean number of inpatient hospital encounters	0.6 0.2	0.8 0.8	0.6 0.2	0.9 0.8	0.00 0.00	0.00 0.00
Mean number of non-acute institutional	0.2	0.0	0.2	0.0	0.00	0.00
encounters	2.0	<b>C C</b>	F 0	07	2.40	0.27
Mean number of other ambulatory encounters	3.8	6.6 16 0	5.9	8.7	-2.10	-0.27
Mean number of filled prescriptions	21.3	16.0	19.9	14.8	1.40	0.09
Mean number of generics Mean number of drug classes	9.9	5.0	9.7	4.9	0.20	0.04
Nuoan number et drug classes	9.3	4.5	9.2	4.4	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1c. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Gastrointestinal Hemorrhage in the Sentinel Distributed Database (SDD) between February 1, 2013 and August 31, 2017

	Аріх	aban	War	farin	Covaria	te Balance	
	Number of		Number of		Absolute	Standardized	
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference	
Number of unique patients	231,092	100.0%	373,798	100.0%			
		Standard		Standard	Absolute	Standardized	
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference	
Mean age (years)	74.9	9.5	75.9	9.6	-1.00	-0.10	
	Number of		Number of		Absolute	Standardized	
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference	
21-64	33,787	14.6%	43,687	11.7%	2.90	0.09	
65-74	77,844	33.7%	120,590	32.3%	1.40	0.03	
75-84	80,354	34.8%	140,839	37.7%	-2.90	-0.06	
85-99	39,107	16.9%	68,682	18.4%	-1.50	-0.04	
Sex							
Female	****	* * * * *	* * * * *	****	****	* * * * *	
Male	119,061	51.5%	197,994	53.0%	-1.50	-0.03	
Other	****	****	****	****	****	****	
Year							
2013	16,816	7.3%	126,838	33.9%	-26.60	-0.70	
2014	58,984	25.5%	117,361	31.4%	-5.90	-0.13	
2015	105,284	45.6%	98,959	26.5%	19.10	0.41	
2016	33,995	14.7%	22,236	5.9%	8.80	0.29	
2017	16,013	6.9%	8,404	2.2%	4.70	0.23	
2017	10,010	Standard	0,101	Standard	Absolute	Standardized	
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference	
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.9	2.7	3.3	2.9	-0.40	-0.14	
	Number of		Number of	-	Absolute	Standardized	
	Patients	Percent	Patients	Percent	Difference	Difference	
Gastrointestinal hemorrhage, inpatient (primary)	945	0.4%	2,353	0.6%	-0.20	-0.03	
Intracranial hemorrhage, inpatient (primary)	255	0.1%	569	0.2%	-0.10	-0.03	
Intracranial hemorrhage, inpatient (primary or	804	0.3%	1,941	0.5%	-0.20	-0.03	
secondary)							
Kidney disease, any care setting	44,005	19.0%	89,228	23.9%	-4.90	-0.12	
Ischemic stroke, inpatient (primary)	9,575	4.1%	19,593	5.2%	-1.10	-0.05	
		Standard	-	Standard	Absolute	Standardized	
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference	
Mean number of ambulatory encounters	11.9	8.6	12.0	8.9	-0.10	-0.01	
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00	
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.9	0.00	0.00	
Mean number of non-acute institutional	0.2	0.6	0.2	0.7	0.00	0.00	
encounters							
Mean number of other ambulatory encounters	4.5	7.3	6.5	9.8	-2.00	-0.23	
Mean number of filled prescriptions	22.6	17.0	22.2	17.0	0.40	0.02	
		_					
Mean number of generics Mean number of drug classes	10.2 9.6	5.1 4.5	10.1 9.5	5.1 4.5	0.10 0.10	0.02 0.02	

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1d. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Intracranial Hemorrhage Diagnosed in the InpatientPrimary Position and Inpatient Secondary Position in the Sentinel Distributed Database (SDD) between February 1, 2013 and September30, 2015

	Apix	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	150,810	100.0%	320,290	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	75.9	9.1	76.1	9.5	-0.20	-0.02
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	15,568	10.3%	34,506	10.8%	-0.50	-0.02
65-74	52,356	34.7%	103,400	32.3%	2.40	0.05
75-84	55,675	36.9%	122,282	38.2%	-1.30	-0.03
85-99	27,211	18.0%	60,102	18.8%	-0.80	-0.02
Sex	,		,			
Female	****	****	****	****	****	****
Male	75,252	49.9%	167,817	52.4%	-2.50	-0.05
Other	****	****	****	****	****	****
Year						
2013	16,817	11.2%	126,845	39.6%	-28.40	-0.69
2014	58,982	39.1%	117,361	36.6%	2.50	0.05
2015	75,011	49.7%	76,084	23.8%	25.90	0.56
	- / -	Standard	- /	Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.8	2.6	3.3	2.9	-0.5	-0.18
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	575	0.4%	1,999	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	163	0.1%	468	0.1%	0.00	0.00
Intracranial hemorrhage, inpatient (primary or	517	0.3%	1,603	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	28,382	18.8%	75,085	23.4%	-4.60	-0.11
Ischemic stroke, inpatient (primary)	6,088	4.0%	16,963	5.3%	-1.30	-0.06
	,	Standard	,	Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	12.1	8.3	12.1	8.8	0.00	0.00
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.7	0.9	-0.10	-0.12
Mean number of non-acute institutional encounters	0.1	0.5	0.2	0.6	-0.10	-0.18
Mean number of other ambulatory encounters	4.8	7.6	6.6	10.0	-1.80	-0.20
Mean number of filled prescriptions	23.3	17.5	22.6	17.3	0.70	0.04
Mean number of generics	10.3	5.1	10.2	5.1	0.10	0.02
Mean number of drug classes	9.7	4.5	9.6	4.5	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1e. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Intracranial Hemorrhage Diagnosed in the InpatientPrimary Position and Inpatient Secondary Position in the Sentinel Distributed Database (SDD) between October 1, 2015 and August 31,2017

-	Apixaban Warf		farin	Covaria	te Balance	
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	82,319	100.0%	57,813	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	73	10.4	74.6	10.1	-1.60	-0.16
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	18,702	22.7%	9,803	17.0%	5.70	0.14
65-74	26,140	31.8%	18,318	31.7%	0.10	0.00
75-84	25,353	30.8%	20,254	35.0%	-4.20	-0.09
85-99	12,124	14.7%	9,438	16.3%	-1.60	-0.04
Sex						
Female	****	****	****	****	****	****
Male	45,019	54.7%	32,776	56.7%	-2.00	-0.04
Other	****	****	* * * * *	****	****	****
Year						
2015	30,702	37.3%	24,486	42.4%	-5.10	-0.10
2016	35,108	42.6%	24,280	42.0%	0.60	0.01
2017	16,509	20.1%	9,047	15.6%	4.50	0.12
		Standard		Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	3.1	2.7	3.5	2.9	-0.4	-0.14
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	387	0.5%	394	0.7%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	91	0.1%	107	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary or	285	0.3%	340	0.6%	-0.30	-0.04
secondary)						
Kidney disease, any care setting	16,060	19.5%	15,239	26.4%	-6.90	-0.16
Ischemic stroke, inpatient (primary)	3,513	4.3%	2,677	4.6%	-0.30	-0.01
		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.7	9.1	11.5	9.4	0.20	0.02
Mean number of emergency room encounters	0.6	1.0	0.6	1.1	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.9	0.00	0.00
Mean number of non-acute institutional	0.2	0.8	0.2	0.8	0.00	0.00
encounters						
Mean number of other ambulatory encounters	3.8	6.6	5.9	8.7	-2.10	-0.27
Mean number of filled prescriptions	21.3	16.0	19.9	14.8	1.40	0.09
Mean number of generics	9.9	5.0	9.7	4.9	0.20	0.04
Mean number of drug classes	9.3	4.5	9.2	4.4	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1f. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Intracranial Hemorrhage Diagnosed in the InpatientPrimary Position and Inpatient Secondary Position in the Sentinel Distributed Database (SDD) between February 1, 2013 and August31, 2017

	Аріх	aban	Warfarin		Covariate Balance	
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	231,096	100.0%	373,809	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	74.9	9.5	75.9	9.6	-1.00	-0.10
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	33,786	14.6%	43,687	11.7%	2.90	0.09
65-74	77,847	33.7%	120,593	32.3%	1.40	0.03
75-84	80,356	34.8%	140,845	37.7%	-2.90	-0.06
85-99	39,107	16.9%	68,684	18.4%	-1.50	-0.04
Sex						
Female	****	****	****	****	****	****
Male	119,061	51.5%	197,999	53.0%	-1.50	-0.03
Other	****	* * * * *	****	****	****	****
Year						
2013	16,817	7.3%	126,845	33.9%	-26.60	-0.70
2014	58,982	25.5%	117,361	31.4%	-5.90	-0.13
2015	105,287	45.6%	98,964	26.5%	19.10	0.41
2016	33,997	14.7%	22,235	5.9%	8.80	0.29
2017	16,013	6.9%	8,404	2.2%	4.70	0.23
	10,010	Standard	0,101	Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.9	2.7	3.3	2.9	-0.40	-0.14
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	953	0.4%	2,369	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	253	0.1%	568	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary or	800	0.3%	1,936	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	44,005	19.0%	89,236	23.9%	-4.90	-0.12
Ischemic stroke, inpatient (primary)	9,572	4.1%	19,591	5.2%	-1.10	-0.05
		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.9	8.6	12.0	8.9	-0.10	-0.01
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.9	0.00	0.00
Mean number of non-acute institutional encounters	-	0.6	0.2	0.7	0.00	0.00
Mean number of other ambulatory encounters	4.5	7.3	6.5	9.8	-2.00	-0.23
Mean number of filled prescriptions	22.6	17.0	22.2	17.0	0.40	0.02
Mean number of generics	10.2	5.1	10.1	5.1	0.10	0.02
Mean number of drug classes	9.6	4.5	9.5	4.5	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



 Table 1g. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Intracranial Hemorrhage Diagnosed in the Inpatient

 Primary Position in the Sentinel Distributed Database (SDD) between February 1, 2013 and September 30, 2015

	Apix	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	150,812	100.0%	320,293	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	75.9	9.1	76.1	9.5	-0.20	-0.02
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	15,569	10.3%	34,506	10.8%	-0.50	-0.02
65-74	52,356	34.7%	103,402	32.3%	2.40	0.05
75-84	55,675	36.9%	122,282	38.2%	-1.30	-0.03
85-99	27,212	18.0%	60,103	18.8%	-0.80	-0.02
Sex						
Female	****	****	****	****	****	****
Male	75,254	49.9%	167,820	52.4%	-2.50	-0.05
Other	****	****	****	****	****	****
Year						
2013	16,817	11.2%	126,845	39.6%	-28.40	-0.69
2014	58,984	39.1%	117,364	36.6%	2.50	0.05
2015	75,011	49.7%	76,084	23.8%	25.90	0.56
		Standard		Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.8	2.6	3.3	2.9	-0.5	-0.18
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	575	0.4%	1,999	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	163	0.1%	468	0.1%	0.00	0.00
Intracranial hemorrhage, inpatient (primary or	519	0.3%	1,606	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	28,383	18.8%	75,086	23.4%	-4.60	-0.11
Ischemic stroke, inpatient (primary)	6,090	4.0%	16,965	5.3%	-1.30	-0.06
		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	12.1	8.3	12.0	8.8	0.10	0.01
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.7	0.9	-0.10	-0.12
	0.1	0.5	0.2	0.6	-0.10	-0.18
Mean number of non-acute institutional encounters						
Mean number of other ambulatory encounters	4.8	7.6	6.6	10.0	-1.80	-0.20
Mean number of filled prescriptions	23.3	17.5	22.6	17.3	0.70	0.04
· · · · ·						
Mean number of generics	10.3	5.1	10.2	5.1	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



 Table 1h. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Intracranial Hemorrhage Diagnosed in the Inpatient

 Primary Position in the Sentinel Distributed Database (SDD) between October 1, 2015 and August 31, 2017

	Аріх	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	82,320	100.0%	57,814	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	73	10.4	74.6	10.1	-1.60	-0.16
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	18,702	22.7%	9,803	17.0%	5.70	0.14
65-74	26,140	31.8%	18,318	31.7%	0.10	0.00
75-84	25,353	30.8%	20,255	35.0%	-4.20	-0.09
85-99	12,125	14.7%	9,438	16.3%	-1.60	-0.04
Sex	<b>,</b> -		-,			
Female	* * * * *	* * * * *	* * * * *	****	****	* * * * *
Male	45,019	54.7%	32,777	56.7%	-2.00	-0.04
Other	****	****	****	****	****	****
Year						
2015	30,702	37.3%	24,486	42.4%	-5.10	-0.10
2015	35,109	42.6%	24,281	42.0%	0.60	0.10
2017	16,509	20.1%	9,047	42.0%	4.50	0.12
2017	10,505	Standard	5,047	Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	3.1	2.7	3.5	2.9	-0.4	-0.14
enurson/envirouser combined comorbiancy score	Number of	2.7	Number of	2.5	Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	387	0.5%	394	0.7%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	92	0.1%	107	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary)	286	0.3%	341	0.6%	-0.30	-0.04
secondary)	200	0.570	541	0.070	-0.50	-0.04
Kidney disease, any care setting	16,060	19.5%	15,240	26.4%	-6.90	-0.16
	-				-0.30	-0.16 -0.01
Ischemic stroke, inpatient (primary)	3,514	4.3%	2,678	4.6%		
Handah Camilan Hattanatan Internation		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.7	9.1	11.5	9.4	0.20	0.02
Mean number of emergency room encounters	0.6	1.0	0.6	1.1	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.9	0.00	0.00
Mean number of non-acute institutional encounters	0.2	0.8	0.2	0.8	0.00	0.00
Mean number of other ambulatory encounters	3.8	6.6	5.9	8.7	-2.10	-0.27
Mean number of filled prescriptions	21.3	16.0	19.9	14.8	1.40	0.09
Mean number of generics	9.9	5.0	9.7	4.9	0.20	0.04
Mean number of drug classes	9.3	4.5	9.2	4.4	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



 Table 1i. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Intracranial Hemorrhage Diagnosed in the Inpatient

 Primary Position in the Sentinel Distributed Database (SDD) between February 1, 2013 and August 31, 2017

	Apix	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	231,099	100.0%	373,813	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	74.9	9.5	75.9	9.6	-1.00	-0.10
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	33,787	14.6%	43,687	11.7%	2.90	0.09
65-74	77,847	33.7%	120,595	32.3%	1.40	0.03
75-84	80,356	34.8%	140,846	37.7%	-2.90	-0.06
85-99	39,109	16.9%	68,685	18.4%	-1.50	-0.04
Sex						
Female	****	****	****	****	****	****
Male	119,063	51.5%	198,003	53.0%	-1.50	-0.03
Other	****	****	* * * * *	* * * * *	* * * * *	****
Year						
2013	16,817	7.3%	126,845	33.9%	-26.60	-0.70
2014	58,984	25.5%	117,364	31.4%	-5.90	-0.13
2015	105,287	45.6%	98,964	26.5%	19.10	0.41
2016	33,998	14.7%	22,236	5.9%	8.80	0.29
2017	16,013	6.9%	8,404	2.2%	4.70	0.23
		Standard	-,	Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.9	2.7	3.3	2.9	-0.40	-0.14
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	953	0.4%	2,369	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	254	0.1%	568	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary or	803	0.3%	1,940	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	44,006	19.0%	89,238	23.9%	-4.90	-0.12
Ischemic stroke, inpatient (primary)	9,575	4.1%	19,594	5.2%	-1.10	-0.05
	,	Standard	,	Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.9	8.6	12	8.9	-0.10	-0.01
•		0.9	0.5	1.0	0.00	0.00
Mean number of emergency room encounters	0.5					
	0.5 0.6			0.9	0.00	0.00
Mean number of inpatient hospital encounters	0.5 0.6 0.2	0.8 0.6	0.6 0.2	0.9 0.7	0.00 0.00	0.00 0.00
Mean number of inpatient hospital encounters Mean number of non-acute institutional	0.6	0.8	0.6			
Mean number of inpatient hospital encounters Mean number of non-acute institutional encounters	0.6 0.2	0.8 0.6	0.6 0.2	0.7	0.00	0.00
Mean number of inpatient hospital encounters Mean number of non-acute institutional encounters Mean number of other ambulatory encounters	0.6 0.2 4.5	0.8 0.6 7.3	0.6 0.2 6.5	0.7 9.8	0.00 -2.00	0.00
Mean number of emergency room encounters Mean number of inpatient hospital encounters Mean number of non-acute institutional encounters Mean number of other ambulatory encounters Mean number of filled prescriptions Mean number of generics	0.6 0.2	0.8 0.6	0.6 0.2	0.7	0.00	0.00

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1j. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Ischemic Stroke in the Sentinel Distributed Database (SDD) between February 1, 2013 and September 30, 2015

	Аріха	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	150,788	100.0%	320,248	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	75.9	9.1	76.1	9.5	-0.20	-0.02
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	15,566	10.3%	34,504	10.8%	-0.50	-0.02
65-74	52,351	34.7%	103,390	32.3%	2.40	0.05
75-84	55,665	36.9%	122,264	38.2%	-1.30	-0.03
85-99	27,206	18.0%	60,090	18.8%	-0.80	-0.02
Sex						
Female	****	****	****	****	****	****
Male	75,246	49.9%	167,797	52.4%	-2.50	-0.05
Other	****	****	****	****	****	****
Year						
2013	16,816	11.2%	126,830	39.6%	-28.40	-0.69
2014	58,974	39.1%	117,345	36.6%	2.50	0.05
2015	74,998	49.7%	76,073	23.8%	25.90	0.56
		Standard		Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.8	2.6	3.3	2.9	-0.5	-0.18
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	575	0.4%	1,999	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	164	0.1%	469	0.1%	0.00	0.00
Intracranial hemorrhage, inpatient (primary or	518	0.3%	1,606	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	28,375	18.8%	75,076	23.4%	-4.60	-0.11
Ischemic stroke, inpatient (primary)	6,064	4.0%	16,919	5.3%	-1.30	-0.06
		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	12.1	8.3	12.0	8.8	0.10	0.01
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.7	0.9	-0.10	-0.12
	0.1	0.5	0.2	0.6	-0.10	-0.18
Mean number of non-acute institutional encounters						
Mean number of other ambulatory encounters	4.8	7.6	6.6	10.0	-1.80	-0.20
Mean number of filled prescriptions	23.3	17.5	22.6	17.3	0.70	0.04
Mean number of generics	10.3	5.1	10.2	5.1	0.10	0.02
Mean number of drug classes	9.7	4.5	9.6	4.5	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1k. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Ischemic Stroke in the Sentinel Distributed Database (SDD) between October 1, 2015 and August 31, 2017

	Apix	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	82,312	100.0%	57,802	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	73	10.4	74.6	10.1	-1.60	-0.16
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	18,702	22.7%	9,801	17.0%	5.70	0.14
65-74	26,137	31.8%	18,315	31.7%	0.10	0.00
75-84	25,349	30.8%	20,251	35.0%	-4.20	-0.09
85-99	12,124	14.7%	9,435	16.3%	-1.60	-0.04
Sex						
Female	****	****	****	****	****	****
Male	45,017	54.7%	32,770	56.7%	-2.00	-0.04
Other	****	****	****	* * * * *	****	****
Year						
2015	30,699	37.3%	24,482	42.4%	-5.10	-0.10
2016	35,104	42.6%	24,274	42.0%	0.60	0.01
2017	16,509	20.1%	9,046	15.6%	4.50	0.12
		Standard		Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	3.1	2.7	3.5	2.9	-0.4	-0.14
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	387	0.5%	394	0.7%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	91	0.1%	107	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary or	285	0.3%	339	0.6%	-0.30	-0.04
secondary)						
Kidney disease, any care setting	16,059	19.5%	15,234	26.4%	-6.90	-0.16
Ischemic stroke, inpatient (primary)	3,506	4.3%	2,666	4.6%	-0.30	-0.01
		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.7	9.1	11.5	9.4	0.20	0.02
Mean number of emergency room encounters	0.6	1.0	0.6	1.1	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.9	0.00	0.00
	0.2	0.8	0.2	0.8	0.00	0.00
Mean number of non-acute institutional encounters						
Mean number of other ambulatory encounters	3.8	6.6	5.9	8.7	-2.10	-0.27
Mean number of filled prescriptions	21.3	16.0	19.9	14.8	1.40	0.09
Mean number of generics	9.9	5.0	9.7	4.9	0.20	0.04
Mean number of drug classes	9.3	4.5	9.2	4.4	0.10	0.02

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 1I. Baseline Characteristics for Apixaban and Warfarin Users at Risk for Ischemic Stroke in the Sentinel Distributed Database (SDD) between February 1, 2013 and August 31, 2017

between February 1, 2013 and August 31, 2017	Аріх	aban	War	farin	Covaria	te Balance
	Number of		Number of		Absolute	Standardized
Characteristic	Patients	Percent	Patients	Percent	Difference	Difference
Number of unique patients	231,067	100.0%	373,756	100.0%		
		Standard		Standard	Absolute	Standardized
Patient Characteristics	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean age (years)	74.9	9.5	75.9	9.6	-1.00	-0.10
	Number of		Number of		Absolute	Standardized
Age (years)	Patients	Percent	Patients	Percent	Difference	Difference
21-64	33,784	14.6%	43,683	11.7%	2.90	0.09
65-74	77,839	33.7%	120,580	32.3%	1.40	0.03
75-84	80,342	34.8%	140,824	37.7%	-2.90	-0.06
85-99	39,102	16.9%	68,669	18.4%	-1.50	-0.04
Sex						
Female	****	****	****	* * * * *	****	****
Male	119,053	51.5%	197,973	53.0%	-1.50	-0.03
Other	****	****	****	****	****	* * * * *
Year						
2013	16,816	7.3%	126,830	33.9%	-26.60	-0.70
2014	58,974	25.5%	117,345	31.4%	-5.90	-0.13
2015	105,271	45.6%	98,949	26.5%	19.10	0.41
2016	33,993	14.7%	22,229	5.9%	8.80	0.29
2017	16,013	6.9%	8,403	2.2%	4.70	0.23
	·	Standard		Standard	Absolute	Standardized
Recorded History of:	Mean	Deviation	Mean	Deviation	Difference	Difference
Charlson/Elixhauser combined comorbidity score <sup>1</sup>	2.9	2.7	3.3	2.9	-0.40	-0.14
	Number of		Number of		Absolute	Standardized
	Patients	Percent	Patients	Percent	Difference	Difference
Gastrointestinal hemorrhage, inpatient (primary)	953	0.4%	2,369	0.6%	-0.20	-0.03
Intracranial hemorrhage, inpatient (primary)	254	0.1%	569	0.2%	-0.10	-0.03
Intracranial hemorrhage, inpatient (primary or	801	0.3%	1,938	0.5%	-0.20	-0.03
secondary)						
Kidney disease, any care setting	43,997	19.0%	89,222	23.9%	-4.90	-0.12
Ischemic stroke, inpatient (primary)	9,541	4.1%	19,536	5.2%	-1.10	-0.05
		Standard		Standard	Absolute	Standardized
Health Service Utilization Intensity:	Mean	Deviation	Mean	Deviation	Difference	Difference
Mean number of ambulatory encounters	11.9	8.6	12.0	8.9	-0.10	-0.01
Mean number of emergency room encounters	0.5	0.9	0.5	1.0	0.00	0.00
Mean number of inpatient hospital encounters	0.6	0.8	0.6	0.9	0.00	0.00
Mean number of non-acute institutional encounters	0.2	0.6	0.2	0.7	0.00	0.00
Mean number of other ambulatory encounters	4.5	7.3	6.5	9.8	-2.00	-0.23
Mean number of filled prescriptions	22.6	17.0	22.2	17.0	0.40	0.02
Mean number of generics	10.2	5.1	10.1	5.1	0.10	0.02
-						

<sup>1</sup>The Combined Comorbidity Raw Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (index date).



Table 2. Summary of Incident Apixaban and Warfarin Users at Risk for Gastrointestinal Hemorrhage, Intracranial Hemorrhage, andIschemic Stroke in the Sentinel Distributed Database between February 1, 2013 and August 31, 2017, by Exposure, Outcome, andMonitoring Period

	New Users	Person-Years at Risk	Average Person- Years at Risk	Total Number of Events
February 1, 2013 - August 31, 2017	New Osers	at hisk		of Events
Gastrointestinal Hemorrhage (inpatient, primary)				
Apixaban	231,092	93,497.8	0.40	
Warfarin	373,798	184,423.9	0.49	7,617
Intracranial Hemorrhage (inpatient, primary or seco		104,423.5	0.45	
Apixaban	231,096	93,713.4	0.41	
Warfarin	373,809	185,667.4	0.50	3,069
Intracranial Hemorrhage (inpatient, primary)	575,005	105,007.4	0.50	
Apixaban	231,099	93,733.9	0.41	
Warfarin	373,813	185,818.2	0.50	2,327
lschemic Stroke (inpatient, primary)	575,615	100)01012	0.00	
Apixaban	231,067	93,578.3	0.40	
Warfarin	373,756	185,155.8	0.50	3,566
February 1, 2013 - September 30, 2015	373,730	105,155.0	0.50	
Gastrointestinal Hemorrhage (inpatient, primary)				
Apixaban	150,809	54,811.0	0.36	
Warfarin	320,280	143,741.4	0.45	6,002
Intracranial Hemorrhage (inpatient, primary or seco	•	145,741.4	0.45	
Apixaban	150,810	54,926.7	0.36	
Warfarin	320,290	144,658.3	0.45	2,347
Intracranial Hemorrhage (inpatient, primary)	520,250	144,000.0	0.45	
Apixaban	150,812	54,939.5	0.36	
Warfarin	320,293	144,758.4	0.45	1,768
Ischemic Stroke (inpatient, primary)	520,255	144,750.4	0.45	
Apixaban	150,788	54,861.2	0.36	
Warfarin	320,248	144,264.8	0.45	2,807
October 1, 2015 - August 31, 2017	520,240	144,204.0	0.45	
Gastrointestinal Hemorrhage (inpatient, primary)				
Apixaban	82,316	22,155.9	0.27	
Warfarin	57,812	16,671.3	0.27	958
		10,071.5	0.29	
Intracranial Hemorrhage (inpatient, primary or secondary Apixaban	82,319	22,196.9	0.27	
Warfarin	57,813	16,740.6	0.27	372
	57,615	10,740.0	0.29	
Intracranial Hemorrhage (inpatient, primary)	82,320	22,199.7	0.27	
Apixaban Warfarin	-	16,748.6	0.27	263
	57,814	10,748.0	0.29	
Ischemic Stroke (inpatient, primary)	02 212	22.169.0	0.27	
Apixaban Morforin	82,312	22,168.9		456
Warfarin	57,802	16,725.6	0.29	



Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (February 1, 2018)

DP ID	DP Start Date*	DP End Date*
DP01	06/01/2007	04/30/2017
DP02	01/01/2000	07/31/2017
DP03	01/01/2000	08/31/2017
DP04	01/01/2008	06/30/2017
DP05	01/01/2006	07/31/2017
DP06	01/01/2000	12/31/2016
DP07	01/01/2008	03/31/2017
DP08	01/01/2010	12/31/2015
DP09	01/01/2005	08/25/2017
DP10	01/01/2000	10/31/2014
DP11	01/01/2000	05/31/2015
DP12	01/01/2000	07/31/2017
DP13	01/01/2000	07/31/2017
DP14	01/01/2000	06/30/2017
DP15	01/01/2004	07/31/2017
DP16	01/01/2000	01/31/2017
DP17	01/01/2012	06/30/2016

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



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

Generic Name	Brand Name	
APIXABAN	Eliquis	
DABIGATRAN ETEXILATE MESYLATE	Pradaxa	
EDOXABAN TOSYLATE	Savaysa	
RIVAROXABAN	Xarelto	
WARFARIN SODIUM	Coumadin	
WARFARIN SODIUM	Warfarin	
WARFARIN SODIUM	Jantoven	



Code	Description	Code Type
	Gastrointestinal Hemorrhage	
455.2	Internal hemorrhoids with other complication	ICD-9-CM
455.5	External hemorrhoids with other complication	ICD-9-CM
456.0	Esophageal varices with bleeding	ICD-9-CM
456.20	Esophageal varices with bleeding in diseases classified elsewhere	ICD-9-CM
530.7	Gastroesophageal laceration-hemorrhage syndrome	ICD-9-CM
530.82	Esophageal hemorrhage	ICD-9-CM
531.0	Acute gastric ulcer with hemorrhage	ICD-9-CM
531.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
531.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM
531.1	Acute gastric ulcer with perforation	ICD-9-CM
531.10	Acute gastric ulcer with perforation, without mention of obstruction	ICD-9-CM
531.11	Acute gastric ulcer with perforation and obstruction	ICD-9-CM
531.2	Acute gastric ulcer with hemorrhage and perforation	ICD-9-CM
531.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
531.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
531.3	Acute gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM
531.30	Acute gastric ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
531.31	Acute gastric ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM
531.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-9-CM
531.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
531.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	ICD-9-CM
531.5	Chronic or unspecified gastric ulcer with perforation	ICD-9-CM
531.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	ICD-9-CM
531.51	Chronic or unspecified gastric ulcer with perforation and obstruction	ICD-9-CM
531.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM
531.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
531.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
532.0	Acute duodenal ulcer with hemorrhage	ICD-9-CM
532.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
532.01	Acute duodenal ulcer with hemorrhage and obstruction	ICD-9-CM
532.1	Acute duodenal ulcer with perforation	ICD-9-CM
532.10	Acute duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM
532.11	Acute duodenal ulcer with perforation and obstruction	ICD-9-CM
532.2	Acute duodenal ulcer with hemorrhage and perforation	ICD-9-CM
532.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
532.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
532.3	Acute duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM
532.30	Acute duodenal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
532.31	Acute duodenal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM
532.4	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-9-CM
532.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	ICD-9-CM
532.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	ICD-9-CM
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
532.51	Chronic or unspecified duodenal ulcer with perforation and obstruction	ICD-9-CM
532.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	ICD-9-CM
532.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM



Code	Description	Code Type
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM
533.11	Acute peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM
533.30	Acute peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with obstruction	ICD-9-CM
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CM
533.50	Chronic or unspecified peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM
533.51	Chronic or unspecified peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of	
555.00	obstruction	
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM
534.0	Acute gastrojejunal ulcer with hemorrhage	ICD-9-CM
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM
534.10	Acute gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM
534.11	Acute gastrojejunal ulcer with perforation and obstruction	ICD-9-CM
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM
534.30	Acute gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
534.31	Acute gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-9-CM
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM
534.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM
534.51	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	ICD-9-CM
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of	ICD-9-CM
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
535.01	Acute gastritis with hemorrhage	ICD-9-CM
535.11	Atrophic gastritis with hemorrhage	ICD-9-CM
535.21	Gastric mucosal hypertrophy with hemorrhage	ICD-9-CM
535.31	Alcoholic gastritis with hemorrhage	ICD-9-CM
	Other specified gastritis with hemorrhage	ICD-9-CM



Code	Description	Code Type
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	ICD-9-CM
535.61	Duodenitis with hemorrhage	ICD-9-CM
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	ICD-9-CM
562.02	Diverticulosis of small intestine with hemorrhage	ICD-9-CM
562.03	Diverticulitis of small intestine with hemorrhage	ICD-9-CM
562.12	Diverticulosis of colon with hemorrhage	ICD-9-CM
562.13	Diverticulitis of colon with hemorrhage	ICD-9-CM
568.81	Hemoperitoneum (nontraumatic)	ICD-9-CM
569.3	Hemorrhage of rectum and anus	ICD-9-CM
569.85	Angiodysplasia of intestine with hemorrhage	ICD-9-CM
578.0	Hematemesis	ICD-9-CM
578.1	Blood in stool	ICD-9-CM
578.9	Hemorrhage of gastrointestinal tract, unspecified	ICD-9-CM
185.01	Esophageal varices with bleeding	ICD-10-CM
185.11	Secondary esophageal varices with bleeding	ICD-10-CM
K22.6	Gastro-esophageal laceration-hemorrhage syndrome	ICD-10-CM
K22.8	Other specified diseases of esophagus	ICD-10-CM
K25.0	Acute gastric ulcer with hemorrhage	ICD-10-CM
K25.1	Acute gastric ulcer with perforation	ICD-10-CM
K25.2	Acute gastric ulcer with both hemorrhage and perforation	ICD-10-CM
K25.3	Acute gastric ulcer without hemorrhage or perforation	ICD-10-CM
K25.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-10-CM
K25.5	Chronic or unspecified gastric ulcer with perforation	ICD-10-CM
K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	ICD-10-CM
K26.0	Acute duodenal ulcer with hemorrhage	ICD-10-CM
K26.1	Acute duodenal ulcer with perforation	ICD-10-CM
K26.2	Acute duodenal ulcer with both hemorrhage and perforation	ICD-10-CM
K26.3	Acute duodenal ulcer with both hemorrhage or perforation	ICD-10-CM
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-10-CM
K26.5	Chronic or unspecified duodenal ulcer with perforation	ICD-10-CM
K20.3 K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	ICD-10-CM
K20.0	Acute peptic ulcer, site unspecified, with hemorrhage	ICD-10-CM
K27.0 K27.1	Acute peptic ulcer, site unspecified, with perforation	ICD-10-CM
K27.1 K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	ICD-10-CM
K27.2 K27.3	Acute peptic ulcer, site unspecified, with both hemorrhage or perforation	ICD-10-CM
K27.3 K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	ICD-10-CM
K27.4 K27.5	Chronic or unspecified peptic ulcer, site unspecified, with perforation	ICD-10-CM
K27.5 K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	ICD-10-CM
K27.0 K28.0		
K28.0 K28.1	Acute gastrojejunal ulcer with hemorrhage	ICD-10-CM
	Acute gastrojejunal ulcer with perforation	ICD-10-CM
K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation	ICD-10-CM
K28.3	Acute gastrojejunal ulcer without hemorrhage or perforation	ICD-10-CM
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-10-CM
K28.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-10-CM
K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	ICD-10-CM
K29.01	Acute gastritis with bleeding	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	ICD-10-CM
K29.31	Chronic superficial gastritis with bleeding	ICD-10-CM
K29.41	Chronic atrophic gastritis with bleeding	ICD-10-CM



Code	Description	Code Type
K29.51	Unspecified chronic gastritis with bleeding	ICD-10-CM
K29.61	Other gastritis with bleeding	ICD-10-CM
K29.71	Gastritis, unspecified, with bleeding	ICD-10-CM
K29.81	Duodenitis with bleeding	ICD-10-CM
K29.91	Gastroduodenitis, unspecified, with bleeding	ICD-10-CM
K31.811	Angiodysplasia of stomach and duodenum with bleeding	ICD-10-CM
K55.21	Angiodysplasia of colon with hemorrhage	ICD-10-CM
K56.60	Unspecified intestinal obstruction	ICD-10-CM
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding	ICD-10-CM
K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding	ICD-10-CM
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding	ICD-10-CM
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding	ICD-10-CM
K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding	ICD-10-CM
K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	ICD-10-CM
K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with bleeding	ICD-10-CM
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding	ICD-10-CM
K62.5	Hemorrhage of anus and rectum	ICD-10-CM
K66.1	Hemoperitoneum	ICD-10-CM
K92.0	Hematemesis	ICD-10-CM
K92.1	Melena	ICD-10-CM
K92.2	Gastrointestinal hemorrhage, unspecified	ICD-10-CM



Code	Description	Code Type
	Intracranial Hemorrhage	
430	Subarachnoid hemorrhage	ICD-9-CM
131	Intracerebral hemorrhage	ICD-9-CM
132	Other and unspecified intracranial hemorrhage	ICD-9-CM
32.0	Nontraumatic extradural hemorrhage	ICD-9-CM
32.1	Subdural hemorrhage	ICD-9-CM
32.9	Unspecified intracranial hemorrhage	ICD-9-CM
52.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
52.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
52.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
52.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
52.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
352.04	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
352.05	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
52.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
52.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
52.2	Subdural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
52.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
52.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of	ICD-9-CM
52.22	consciousness Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one	ICD-9-CM
52.23	hour) loss of consciousness Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours)	ICD-9-CM
52.24	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 level	ICD-9-CM
52.25	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than	ICD-9-CM
52.26	24 hours) loss of consciousness, without return to pre-existing conscious level Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness	ICD-9-CM
52.29	of unspecified duration Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
52 /	Extradural hemorrhage following injury without mention of open intracranial wound	
52.4 52.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM ICD-9-CM
52.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
352.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM



Code	Description	Code Type
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24	ICD-9-CM
	hours) loss of consciousness	
852.44	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more	ICD-9-CM
	than 24 hours) loss of consciousness and return to pre-existing conscious level	
852.45	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more	ICD-9-CM
	than 24 hours) loss of consciousness, without return to pre-existing conscious level	
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness	ICD-9-CM
852.49	of unspecified duration Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified	
652.49	concussion	ICD-9-CM
853.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
000.0	wound	
853.00	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
	wound, unspecified state of consciousness	
853.01	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
	wound, no loss of consciousness	
853.02	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
	wound, brief (less than 1 hour) loss of consciousness	
853.03	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
	wound, moderate (1-24 hours) loss of consciousness	
853.04	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
	wound, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	
853.05	Other and unspecified intracranial hemorrhage following injury. Without mention of open intracranial	ICD-9-CM
	wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious	
052.06		
853.06	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
853.09	wound, loss of consciousness of unspecified duration Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial	ICD-9-CM
000.09	wound, unspecified concussion	
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	ICD-10-CN
60.00 60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	ICD-10-CN
60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	ICD-10-CN
60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	ICD-10-CN
60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	ICD-10-CN
60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	ICD-10-CN
60.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	ICD-10-CN
60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	ICD-10-CN
60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	ICD-10-CN
60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	ICD-10-CN
60.4	Nontraumatic subarachnoid hemorrhage from basilar artery	ICD-10-CN
60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	ICD-10-CN
60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	ICD-10-CN
60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	ICD-10-CN
60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	ICD-10-CN
60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery Other nontraumatic subarachnoid hemorrhage	ICD-10-CN ICD-10-CN
160.8		- 11 - 11 - 11 - 11 N



Code	Description	Code Type
161.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	ICD-10-CM
161.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	ICD-10-CM
161.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	ICD-10-CM
61.3	Nontraumatic intracerebral hemorrhage in brain stem	ICD-10-CM
161.4	Nontraumatic intracerebral hemorrhage in cerebellum	ICD-10-CM
61.5	Nontraumatic intracerebral hemorrhage, intraventricular	ICD-10-CM
161.6	Nontraumatic intracerebral hemorrhage, multiple localized	ICD-10-CM
61.8	Other nontraumatic intracerebral hemorrhage	ICD-10-CM
61.9	Nontraumatic intracerebral hemorrhage, unspecified	ICD-10-CM
62.00	Nontraumatic subdural hemorrhage, unspecified	ICD-10-CM
62.01	Nontraumatic acute subdural hemorrhage	ICD-10-CM
62.02	Nontraumatic subacute subdural hemorrhage	ICD-10-CM
62.03	Nontraumatic chronic subdural hemorrhage	ICD-10-CM
162.1	Nontraumatic extradural hemorrhage	ICD-10-CM
162.9	Nontraumatic intracranial hemorrhage, unspecified	ICD-10-CM
S06.340A	Traumatic hemorrhage of right cerebrum without loss of consciousness, initial encounter	ICD-10-CM
S06.341A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.342A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial	ICD-10-CM
	encounter	
S06.343A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial	ICD-10-CM
	encounter	
S06.344A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial	ICD-10-CM
	encounter	
S06.345A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to	ICD-10-CM
	pre-existing conscious level, initial encounter	102 20 0
S06 346A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return	ICD-10-CM
	to pre-existing conscious level with patient surviving, initial encounter	102 20 0
S06.347A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to	ICD-10-CM
	brain injury prior to regaining consciousness, initial encounter	102 20 0
S06.348A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to	ICD-10-CM
0001010/10/1	other cause prior to regaining consciousness, initial encounter	
S06.349A		ICD-10-CM
500.545/1	encounter	
S06 350A	Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter	ICD-10-CM
	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial	ICD-10-CM
300.33ZA	-	
	encounter Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial	ICD-10-CM
300.333A	-	
	encounter Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	
	-	
SU6.355A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-	- ICD-10-CM
	existing conscious level, initial encounter	
SU6.356A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to	ICD-10-CM
	pre-existing conscious level with patient surviving, initial encounter	
SU6.357A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain	ICD-10-CM
	injury prior to regaining consciousness, initial encounter	
S06.358A		ICD-10-CM
	cause prior to regaining consciousness, initial encounter	



	Description	Code Type
506.359A	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial	ICD-10-CN
	encounter	
506.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	ICD-10-CN
506.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial	ICD-10-CN
	encounter	
06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes,	ICD-10-CN
	initial encounter	
06.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59	ICD-10-CM
00 2044	minutes, initial encounter	
06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial	ICD-10-CM
	encounter Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with	ICD-10-C
00.30JA	return to pre-existing conscious level, initial encounter	
06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without	
00.300A	return to pre-existing conscious level with patient surviving, initial encounter	
06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due	ICD-10-CI
00.5077	to brain injury prior to regaining consciousness, initial encounter	100 10 0
06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due	ICD-10-C
	to other cause prior to regaining consciousness, initial encounter	
06.369A		ICD-10-C
	encounter	
06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter	ICD-10-C
06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-C
06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-C
06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-C
06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-C
06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious	ICD-10-C
	level, initial encounter	
06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing	ICD-10-CI
	conscious level with patient surviving, initial encounter	
06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to	ICD-10-CI
	regaining consciousness, initial encounter	
06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to	ICD-10-CI
	regaining consciousness, initial encounter	
06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CI
	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	ICD-10-CI
	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-C
	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-C
	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial	ICD-10-C
	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CI
00.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-	ICD-10-CI
	existing conscious level, initial encounter Traumatic subdural homorrhage with loss of consciousness greater than 24 hours without return to pro-	ICD-10-CI
506.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-	10-10-01
06.5X7A	existing conscious level with patient surviving, initial encounter Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury	ICD-10-CI
00.JA/A	before regaining consciousness, initial encounter	
06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause	ICD-10-CI



<ul> <li>S06.5X9A Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X0A Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter</li> <li>S06.6X1A Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter</li> <li>S06.6X2A Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial</li> <li>S06.6X2A Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial</li> <li>S06.6X2A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to p existing conscious level with patient surviving, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to the cause prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to the cause prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to the cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to the caus</li></ul>	ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM in ICD-10-CM in ICD-10-CM er ICD-10-CM
<ul> <li>S06.6X1A Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter</li> <li>S06.6X2A Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter</li> <li>S06.6X3A Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter</li> <li>S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to p re-existing conscious level with patient surviving, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to othe cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to othe cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to othe cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consc</li></ul>	ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM
<ul> <li>S06.6X2A Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial sof.6X3A Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter</li> <li>S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to p re-existing conscious level with patient surviving, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified durat</li></ul>	ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM in ICD-10-CM in ICD-10-CM er ICD-10-CM
<ul> <li>S06.6X3A Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter</li> <li>S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to p existing conscious level, with patient surviving, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter</li> <li>S06.6X7A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with cerebral infarction</li> <li>S06.6X9A Occlusion and stenosis of basilar artery with cerebral infarction</li> <li>S07</li> <li>S07</li> <li>S08</li> <li>S0</li></ul>	I ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM ICD-10-CM
encounter S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter S06.6X7A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter S06.6X9A Traumatic subarachnoid hemorrhage with cerebral infarction 433.11 Occlusion and stenosis of carotid artery with cerebral infarction 433.21 Occlusion and stenosis of vertebral artery with cerebral infarction	er ICD-10-CM ire- ICD-10-CM to ICD-10-CM in ICD-10-CM er ICD-10-CM
<ul> <li>S06.6X4A Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter</li> <li>S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter</li> <li>S06.6X7A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai enjury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with cerebral infarction</li> <li>S07</li> <li>S07<!--</td--><td>re- ICD-10-CM to ICD-10-CM in ICD-10-CM er ICD-10-CM</td></li></ul>	re- ICD-10-CM to ICD-10-CM in ICD-10-CM er ICD-10-CM
<ul> <li>S06.6X5A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to p existing conscious level, initial encounter</li> <li>S06.6X6A Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter</li> <li>S06.6X7A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai injury prior to regaining consciousness, initial encounter</li> <li>S06.6X8A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brai cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to othe cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to othe cause prior to regaining consciousness, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter</li> <li>S06.6X9A Traumatic subarachnoid hemorrhage with cerebral infarction</li> <li>S06.6X9A Occlusion and stenosis of carotid artery with cerebral infarction</li> <li>S07A Occlusion and stenosis of vertebral artery with cerebral infarction</li> </ul>	re- ICD-10-CM to ICD-10-CM in ICD-10-CM er ICD-10-CM
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<ul> <li>433.01 Occlusion and stenosis of basilar artery with cerebral infarction</li> <li>433.11 Occlusion and stenosis of carotid artery with cerebral infarction</li> <li>433.21 Occlusion and stenosis of vertebral artery with cerebral infarction</li> </ul>	
<ul><li>433.11 Occlusion and stenosis of carotid artery with cerebral infarction</li><li>433.21 Occlusion and stenosis of vertebral artery with cerebral infarction</li></ul>	
433.21 Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM
	ICD-9-CM
122.21 Occlusion and stenosis of multiple and hilateral precerebral arteries with cerebral infarction	ICD-9-CM
	ICD-9-CM
433.81 Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM
433.91 Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM
434.01 Cerebral thrombosis with cerebral infarction	ICD-9-CM
434.11 Cerebral embolism with cerebral infarction	ICD-9-CM
434.91 Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM
436 Acute, but ill-defined, cerebrovascular disease	ICD-9-CM
163.22 Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries	ICD-10-CM
163.139 Cerebral infarction due to embolism of unspecified carotid artery	ICD-10-CM
163.239 Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	ICD-10-CM
163.019 Cerebral infarction due to thrombosis of unspecified vertebral artery	ICD-10-CM
163.119 Cerebral infarction due to embolism of unspecified vertebral artery	ICD-10-CM
163.219 Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries	ICD-10-CM
163.59 Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	ICD-10-CM
163.20 Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	ICD-10-CM
163.30 Cerebral infarction due to thrombosis of unspecified cerebral artery	ICD-10-CM
163.40 Cerebral infarction due to embolism of unspecified cerebral artery	ICD-10-CM
163.50 Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	ICD-10-CM
167.89 Other cerebrovascular disease	ICD-10-CM
I63.00 Cerebral infarction due to thrombosis of unspecified precerebral artery	ICD-10-CM
I63.011 Cerebral infarction due to thrombosis of right vertebral artery	ICD-10-CM
163.012 Cerebral infarction due to thrombosis of left vertebral artery	ICD-10-CM
163.013 Cerebral infarction due to thrombosis of bilateral vertebral arteries	ICD-10-CM
163.02 Cerebral infarction due to thrombosis of basilar artery	ICD-10-CM
I63.031 Cerebral infarction due to thrombosis of right carotid artery	ICD-10-CM
163.032 Cerebral infarction due to thrombosis of left carotid artery	ICD-10-CM
163.033 Cerebral infarction due to thrombosis of bilateral carotid arteries	ICD-10-CM
163.039 Cerebral infarction due to thrombosis of unspecified carotid artery	ICD-10-CM



Code	Description	Code Type
163.09	Cerebral infarction due to thrombosis of other precerebral artery	ICD-10-CM
163.10	Cerebral infarction due to embolism of unspecified precerebral artery	ICD-10-CM
163.111	Cerebral infarction due to embolism of right vertebral artery	ICD-10-CM
163.112	Cerebral infarction due to embolism of left vertebral artery	ICD-10-CM
163.113	Cerebral infarction due to embolism of bilateral vertebral arteries	ICD-10-CM
163.12	Cerebral infarction due to embolism of basilar artery	ICD-10-CM
163.131	Cerebral infarction due to embolism of right carotid artery	ICD-10-CM
163.132	Cerebral infarction due to embolism of left carotid artery	ICD-10-CM
163.133	Cerebral infarction due to embolism of bilateral carotid arteries	ICD-10-CM
163.19	Cerebral infarction due to embolism of other precerebral artery	ICD-10-CM
163.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries	ICD-10-CM
163.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries	ICD-10-CM
163.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	ICD-10-CM
163.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	ICD-10-CM
163.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	ICD-10-CM
163.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	ICD-10-CM
163.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	ICD-10-CM
163.311	Cerebral infarction due to thrombosis of right middle cerebral artery	ICD-10-CM
163.312	Cerebral infarction due to thrombosis of left middle cerebral artery	ICD-10-CM
163.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	ICD-10-CM
163.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	ICD-10-CM
163.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	ICD-10-CM
163.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	ICD-10-CM
163.323	Cerebral infarction due to thrombosis of bilateral anterior arteries	ICD-10-CM
163.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	ICD-10-CM
163.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	ICD-10-CM
163.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	ICD-10-CM
163.333	Cerebral infarction to thrombosis of bilateral posterior arteries	ICD-10-CM
163.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	ICD-10-CM
163.341	Cerebral infarction due to thrombosis of right cerebellar artery	ICD-10-CM
163.342	Cerebral infarction due to thrombosis of left cerebellar artery	ICD-10-CM
163.343	Cerebral infarction to thrombosis of bilateral cerebellar arteries	ICD-10-CM
163.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	ICD-10-CM
163.39	Cerebral infarction due to thrombosis of other cerebral artery	ICD-10-CM
163.411	Cerebral infarction due to embolism of right middle cerebral artery	ICD-10-CM
163.412	Cerebral infarction due to embolism of left middle cerebral artery	ICD-10-CM
163.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	ICD-10-CM
163.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	ICD-10-CM
163.421	Cerebral infarction due to embolism of right anterior cerebral artery	ICD-10-CM
163.422	Cerebral infarction due to embolism of left anterior cerebral artery	ICD-10-CM
163.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	ICD-10-CM
163.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	ICD-10-CM
163.431	Cerebral infarction due to embolism of right posterior cerebral artery	ICD-10-CM
163.432	Cerebral infarction due to embolism of left posterior cerebral artery	ICD-10-CM
163.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	ICD-10-CM
163.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	ICD-10-CM
163.441	Cerebral infarction due to embolism of right cerebellar artery	ICD-10-CM
163.442	Cerebral infarction due to embolism of left cerebellar artery	ICD-10-CM
163.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	ICD-10-CM
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Code	Description	Code Type
163.449	Cerebral infarction due to embolism of unspecified cerebellar artery	ICD-10-CM
163.49	Cerebral infarction due to embolism of other cerebral artery	ICD-10-CM
163.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	ICD-10-CM
163.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	ICD-10-CM
163.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle arteries	ICD-10-CM
163.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	ICD-10-CM
163.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	ICD-10-CM
163.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	ICD-10-CM
163.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior arteries	ICD-10-CM
163.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	ICD-10-CM
163.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	ICD-10-CM
163.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	ICD-10-CM
163.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior arteries	ICD-10-CM
163.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	ICD-10-CM
163.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	ICD-10-CM
163.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	ICD-10-CM
163.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	ICD-10-CM
163.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	ICD-10-CM
163.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	ICD-10-CM
163.8	Other cerebral infarction	ICD-10-CM
163.9	Cerebral infarction, unspecified	ICD-10-CM



Code	Description	Code Type
427.31	Atrial fibrillation	ICD-9-CM
427.32	Atrial flutter	ICD-9-CM
148.0	Paroxysmal atrial fibrillation	ICD-10-CM
148.1	Persistent atrial fibrillation	ICD-10-CM
148.2	Chronic atrial fibrillation	ICD-10-CM
148.3	Typical atrial flutter	ICD-10-CM
148.4	Atypical atrial flutter	ICD-10-CM
148.91	Unspecified atrial fibrillation	ICD-10-CM
148.92	Unspecified atrial flutter	ICD-10-CM



Appendix E. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes Used to Define Exclusion Criteria in this Request

Deep Vein Thrombosis           534         Acute venous embolism and thrombosis of deep vessels of proximal lower extremity         ICD=9CM           5340         Acute venous embolism and thrombosis of deep vessels of groximal lower extremity         ICD=9CM           53541         Acute venous embolism and thrombosis of deep vessels of groximal lower extremity         ICD=9CM           5511         Philebitis and thrombophilebitis of emoral vein (deep (superficial)         ICD=9CM           5512         Philebitis and thrombophilebitis of one extremities, other         ICD=9CM           5513         Philebitis and thrombophilebitis of one extremities, unspecified         ICD=9CM           5514         Philebitis and thrombophilebitis of puper extremities, unspecified         ICD=9CM           55184         Philebitis and thrombophilebitis of puper extremities, unspecified         ICD=9CM           80.10         Philebitis and thrombophilebitis of puper extremities, unspecified         ICD=10CM           80.11         Philebitis and thrombophilebitis of puper extremities, unspecified         ICD=10CM           80.12         Philebitis and thrombophilebitis of nonspecified deep vessels of right lower extremity         ICD=10CM           80.12         Philebitis and thrombophilebitis of unspecified deep vessels of unspecified lower extremity         ICD=10CM           80.20         Philebitis and thrombophilebitis of unspecif	Code	Description	Code Type
5340       Acute venous embolism and thrombosis of unspecified deep vessels of proximal lower extremity       ICD-9-CM         5521       Acute venous embolism and thrombosis of deep vessels of proximal lower extremity       ICD-9-CM         5511       Phlebitis and thrombophlebitis of deep vessels of distal lower extremity       ICD-9-CM         5511       Phlebitis and thrombophlebitis of deep vessels of distal lower extremities, other       ICD-9-CM         5512       Phlebitis and thrombophlebitis of lower extremities, unspecified       ICD-9-CM         5513       Phlebitis and thrombophlebitis of lower extremities, unspecified       ICD-9-CM         5514       Phlebitis and thrombophlebitis of unspecified femoral vein       ICD-9-CM         5514       Phlebitis and thrombophlebitis of unspecified femoral vein       ICD-9-CM         5510       Phlebitis and thrombophlebitis of ingt femoral vein       ICD-10-CM         5011       Phlebitis and thrombophlebitis of inspecified deep vessels of light lower extremity       ICD-10-CM         5012       Phlebitis and thrombophlebitis of unspecified deep vessels of light lower extremity       ICD-10-CM         5012       Phlebitis and thrombophlebitis of unspecified deep vessels of light lower extremity       ICD-10-CM         5012       Phlebitis and thrombophlebitis of unspecified deep vessels of light lower extremity       ICD-10-CM         5023       Phlebitis a			
45341       Acute venous embolism and thrombosis of deep vessels of proximal lower extremity       ICD-9-CM         15342       Acute venous embolism and thrombosis of deep vessels of distal lower extremities       ICD-9-CM         15111       Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)       ICD-9-CM         15112       Phlebitis and thrombophlebitis of deep veins of lower extremities, other       ICD-9-CM         15121       Phlebitis and thrombophlebitis of deep veins of upper extremities, other       ICD-9-CM         15131       Phlebitis and thrombophlebitis of upper extremities, other       ICD-9-CM         15132       Phlebitis and thrombophlebitis of upper extremities, unspecified       ICD-9-CM         15134       Phlebitis and thrombophlebitis of upper extremities, unspecified       ICD-9-CM         15134       Phlebitis and thrombophlebitis of unspecified moral vein       ICD-10-CM         15141       Phlebitis and thrombophlebitis of remoral vein       ICD-10-CM         15121       Phlebitis and thrombophlebitis of unspecified deep vessels of light lower extremity       ICD-10-CM         15121       Phlebitis and thrombophlebitis of unspecified deep vessels of light lower extremity       ICD-10-CM         15202       Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremity       ICD-10-CM         15202       Phlebitis and thrombophlebitis of right liac ve	4534	Acute venous embolism and thrombosis of deep vessels of lower extremity	ICD-9-CM
5342Acute venous embolism and thrombosis of deep vessels of distal lower extremityICD 9-CM1511Phlebitis and thrombophlebitis of femoral vein (deep) [superficial)ICD 9-CM15119Phlebitis and thrombophlebitis of femoral vein (deep) [superficial)ICD 9-CM15119Phlebitis and thrombophlebitis of deep veins of lower extremities, unspecifiedICD 9-CM15119Phlebitis and thrombophlebitis of lower extremities, unspecifiedICD 9-CM15181Phlebitis and thrombophlebitis of ouper extremities, unspecifiedICD 9-CM15183Phlebitis and thrombophlebitis of upper extremities, unspecifiedICD 9-CM15110Phlebitis and thrombophlebitis of ight femoral veinICD 10-CM15111Phlebitis and thrombophlebitis of right femoral veinICD 10-CM15112Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremityICD 10-CM15112Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremityICD 10-CM15112Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremityICD 10-CM15122Phlebitis and thrombophlebitis of inspecified deep vessels of unspecified lower extremityICD 10-CM15123Phlebitis and thrombophlebitis of right liac veinICD 10-CM15124Phlebitis and thrombophlebitis of right popiltal veinICD 10-CM15224Phlebitis and thrombophlebitis of right popiltal veinICD 10-CM15224Phlebitis and thrombophlebitis of right popiltal veinICD 10-CM15224Phlebitis and thrombophlebitis of right popilt	45340	Acute venous embolism and thrombosis of unspecified deep vessels of lower extremity	ICD-9-CM
511       Phiebitis and thrombophiebitis of deep veins of lower extremities.       ICD-9-CM         5111       Phiebitis and thrombophiebitis of deep veins of lower extremities, other       ICD-9-CM         5112       Phiebitis and thrombophiebitis of lower extremities, unspecified       ICD-9-CM         5113       Phiebitis and thrombophiebitis of lower extremities, unspecified       ICD-9-CM         5128       Phiebitis and thrombophiebitis of unspecified femoral vein       ICD-9-CM         5138       Phiebitis and thrombophiebitis of unspecified femoral vein       ICD-10-CM         80.10       Phiebitis and thrombophiebitis of right femoral vein       ICD-10-CM         80.11       Phiebitis and thrombophiebitis of femoral vein       ICD-10-CM         80.12       Phiebitis and thrombophiebitis of unspecified deep vessels of right lower extremity       ICD-10-CM         80.201       Phiebitis and thrombophiebitis of unspecified deep vessels of lower extremity       ICD-10-CM         80.202       Phiebitis and thrombophiebitis of unspecified deep vessels of lower extremity       ICD-10-CM         80.203       Phiebitis and thrombophiebitis of right liac vein       ICD-10-CM         80.212       Phiebitis and thrombophiebitis of right liac vein       ICD-10-CM         80.212       Phiebitis and thrombophiebitis of right liac vein       ICD-10-CM         80.212       Ph	45341	Acute venous embolism and thrombosis of deep vessels of proximal lower extremity	ICD-9-CM
5111Phiebitis and thrombophiebitis of femoral vein (deep) (superficial)ICD-9-CM1512Phiebitis and thrombophiebitis of lower extremities, unspecifiedICD-9-CM1518Phiebitis and thrombophiebitis of lower extremities, unspecifiedICD-9-CM15181Phiebitis and thrombophiebitis of upper extremities, unspecifiedICD-9-CM15181Phiebitis and thrombophiebitis of upper extremities, unspecifiedICD-9-CM15181Phiebitis and thrombophiebitis of upper extremities, unspecifiedICD-10-CM15191Phiebitis and thrombophiebitis of right femoral veinICD-10-CM15111Phiebitis and thrombophiebitis of right femoral veinICD-10-CM15112Phiebitis and thrombophiebitis of unspecified deep vessels of right lower extremityICD-10-CM15112Phiebitis and thrombophiebitis of unspecified deep vessels of lower extremityICD-10-CM15122Phiebitis and thrombophiebitis of unspecified deep vessels of lower extremityICD-10-CM15123Phiebitis and thrombophiebitis of unspecified deep vessels of lower extremityICD-10-CM15124Phiebitis and thrombophiebitis of right politeal veinICD-10-CM15124Phiebitis and thrombophiebitis of right politeal veinICD-10-CM15124Phiebitis and thrombophiebitis of ling vein, bilateralICD-10-CM15124Phiebitis and thrombophiebitis of ling vein, bilateralICD-10-CM15124Phiebitis and thrombophiebitis of ling veinICD-10-CM15124Phiebitis and thrombophiebitis of ling veinICD-10-CM15124Phiebitis and throm	45342	Acute venous embolism and thrombosis of deep vessels of distal lower extremity	ICD-9-CM
55119Philebitis and thrombophlebitis of deep veins of lower extremities, otherICD-9-CM1512Philebitis and thrombophlebitis of liac veinICD-9-CM15131Philebitis and thrombophlebitis of liac veinICD-9-CM15138Philebitis and thrombophlebitis of deep veins of upper extremitiesICD-9-CM15141Philebitis and thrombophlebitis of upper extremities, unspecifiedICD-9-CM15142Philebitis and thrombophlebitis of unspecified femoral veinICD-10-CM15141Philebitis and thrombophlebitis of right femoral veinICD-10-CM15142Philebitis and thrombophlebitis of enspecified deep vessels of right lower extremityICD-10-CM15143Philebitis and thrombophlebitis of unspecified deep vessels of lower extremityICD-10-CM15142Philebitis and thrombophlebitis of unspecified deep vessels of lower extremityICD-10-CM15143Philebitis and thrombophlebitis of unspecified deep vessels of lower extremityICD-10-CM15144Philebitis and thrombophlebitis of liac veinICD-10-CM15144Philebitis and thrombophlebitis of liac vein, bilateralICD-10-CM15144Philebitis and thrombophlebitis of right popliteal veinICD-10-CM15144Philebitis and thrombophlebitis of right popliteal veinICD-10-CM15144Philebitis and thrombophlebitis of liac vein, bilateral <td>4511</td> <td>Phlebitis and thrombophlebitis of deep veins of lower extremities</td> <td>ICD-9-CM</td>	4511	Phlebitis and thrombophlebitis of deep veins of lower extremities	ICD-9-CM
512Phiebitis and thrombophlebitis of lower extremities, unspecifiedICD-9-CM5138Phiebitis and thrombophlebitis of deep veins of upper extremitiesICD-9-CM5138Phiebitis and thrombophlebitis of upper extremities, unspecifiedICD-9-CM5139Phiebitis and thrombophlebitis of upper extremities, unspecifiedICD-9-CM5130Phiebitis and thrombophlebitis of right femoral veinICD-10-CM5131Phiebitis and thrombophlebitis of femoral veinICD-10-CM5132Phiebitis and thrombophlebitis of unspecified deep vessels of lower extremityICD-10-CM5132Phiebitis and thrombophlebitis of unspecified deep vessels of lower extremities, bilateralICD-10-CM5132Phiebitis and thrombophlebitis of left iliac veinICD-10-CM5132Phiebitis and thrombophlebitis of left iliac veinICD-10-CM5133Phiebitis and thrombophlebitis of right popilteal veinICD-10-CM5122Phiebitis and thrombophlebitis of right popilteal veinICD-10-CM5123Phiebitis and thrombophlebitis of right popilteal veinICD-10-CM5124Phiebitis and thrombophlebitis of right popilteal veinICD-10-CM5124Phiebitis and thrombophlebitis of right popilteal veinICD-10-CM5124Phiebitis and thr	45111	Phlebitis and thrombophlebitis of femoral vein (deep) (superficial)	ICD-9-CM
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55183Phlebitis and thrombophlebitis of deep veins of upper extremitiesICD-9-CM55384Phlebitis and thrombophlebitis of upper extremities, unspecifiedICD-9-CM55384Phlebitis and thrombophlebitis of unspecified femoral veinICD-10-CM80.12Phlebitis and thrombophlebitis of remoral veinICD-10-CM80.12Phlebitis and thrombophlebitis of femoral vein, bilateralICD-10-CM80.13Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremityICD-10-CM80.202Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremityICD-10-CM80.203Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremityICD-10-CM80.212Phlebitis and thrombophlebitis of right liac veinICD-10-CM80.212Phlebitis and thrombophlebitis of right liac veinICD-10-CM80.212Phlebitis and thrombophlebitis of light oppliteal veinICD-10-CM80.213Phlebitis and thrombophlebitis of unspecified liac veinICD-10-CM80.214Phlebitis and thrombophlebitis of right popliteal veinICD-10-CM80.215Phlebitis and thrombophlebitis of right popliteal veinICD-10-CM80.221Phlebitis and thrombophlebitis of right popliteal veinICD-10-CM80.222Phlebitis and thrombophlebitis of right popliteal veinICD-10-CM80.223Phlebitis and thrombophlebitis of right vein, bilateralICD-10-CM80.224Phlebitis and thrombophlebitis of right vein, bilateralICD-10-CM80.225Phlebitis and thrombophlebitis of unspecified	4512	Phlebitis and thrombophlebitis of lower extremities, unspecified	ICD-9-CM
45384Phlebits and thrombophlebits of upper extremities, unspecifiedICD-9-CM80.10Phlebits and thrombophlebits of right femoral veinICD-10-CM80.12Phlebits and thrombophlebits of first femoral veinICD-10-CM80.12Phlebits and thrombophlebits of left femoral vein, bilateralICD-10-CM80.13Phlebits and thrombophlebits of unspecified deep vessels of right lower extremityICD-10-CM80.20Phlebits and thrombophlebits of unspecified deep vessels of left lower extremityICD-10-CM80.201Phlebits and thrombophlebits of unspecified deep vessels of lower extremityICD-10-CM80.202Phlebits and thrombophlebits of unspecified deep vessels of lower extremites, bilateralICD-10-CM80.211Phlebits and thrombophlebits of unspecified deep vessels of lower extremites, bilateralICD-10-CM80.212Phlebits and thrombophlebits of left liac veinICD-10-CM80.213Phlebits and thrombophlebits of liac vein, bilateralICD-10-CM80.214Phlebits and thrombophlebits of left popilteal veinICD-10-CM80.225Phlebits and thrombophlebits of popilteal veinICD-10-CM80.226Phlebits and thrombophlebits of unspecified popilteal veinICD-10-CM80.227Phlebits and thrombophlebits of right libal veinICD-10-CM80.238Phlebits and thrombophlebits of right libal veinICD-10-CM80.239Phlebits and thrombophlebits of unspecified libal veinICD-10-CM80.231Phlebits and thrombophlebits of other deep vessels of right lower extremityICD-10-CM80.232 <td>45181</td> <td>Phlebitis and thrombophlebitis of iliac vein</td> <td>ICD-9-CM</td>	45181	Phlebitis and thrombophlebitis of iliac vein	ICD-9-CM
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82.411Acute embolism and thrombosis of right femoral veinICD-10-CM82.412Acute embolism and thrombosis of left femoral veinICD-10-CM82.413Acute embolism and thrombosis of femoral vein, bilateralICD-10-CM82.419Acute embolism and thrombosis of unspecified femoral veinICD-10-CM82.421Acute embolism and thrombosis of unspecified femoral veinICD-10-CM82.421Acute embolism and thrombosis of right iliac veinICD-10-CM	182.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral	ICD-10-CM
82.412Acute embolism and thrombosis of left femoral veinICD-10-CM82.413Acute embolism and thrombosis of femoral vein, bilateralICD-10-CM82.419Acute embolism and thrombosis of unspecified femoral veinICD-10-CM82.421Acute embolism and thrombosis of right iliac veinICD-10-CM	182.409		ICD-10-CM
82.413Acute embolism and thrombosis of femoral vein, bilateralICD-10-CM82.419Acute embolism and thrombosis of unspecified femoral veinICD-10-CM82.421Acute embolism and thrombosis of right iliac veinICD-10-CM	182.411	Acute embolism and thrombosis of right femoral vein	ICD-10-CM
82.419Acute embolism and thrombosis of unspecified femoral veinICD-10-CM82.421Acute embolism and thrombosis of right iliac veinICD-10-CM	182.412	Acute embolism and thrombosis of left femoral vein	ICD-10-CM
82.421 Acute embolism and thrombosis of right iliac vein ICD-10-CM	182.413	Acute embolism and thrombosis of femoral vein, bilateral	ICD-10-CM
	182.419	Acute embolism and thrombosis of unspecified femoral vein	ICD-10-CM
82.422 Acute embolism and thrombosis of left iliac vein ICD-10-CM	182.421		ICD-10-CM
	182.422	Acute embolism and thrombosis of left iliac vein	ICD-10-CM



Appendix E. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Type
182.423	Acute embolism and thrombosis of iliac vein, bilateral	ICD-10-CM
182.429	Acute embolism and thrombosis of unspecified iliac vein	ICD-10-CM
182.431	Acute embolism and thrombosis of right popliteal vein	ICD-10-CM
182.432	Acute embolism and thrombosis of left popliteal vein	ICD-10-CM
182.433	Acute embolism and thrombosis of popliteal vein, bilateral	ICD-10-CM
182.439	Acute embolism and thrombosis of unspecified popliteal vein	ICD-10-CM
182.441	Acute embolism and thrombosis of right tibial vein	ICD-10-CM
182.442	Acute embolism and thrombosis of left tibial vein	ICD-10-CM
182.443	Acute embolism and thrombosis of tibial vein, bilateral	ICD-10-CM
182.449	Acute embolism and thrombosis of unspecified tibial vein	ICD-10-CM
182.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity	ICD-10-CM
182.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity	ICD-10-CM
182.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral	ICD-10-CM
182.499	Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity	ICD-10-CM
I82.4Y1	Acute embolism and thrombosis of unspecified deep veins of right proximal lower extremity	ICD-10-CM
182.4Y2	Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity	ICD-10-CM
182.4Y3	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral	ICD-10-CM
182.4Y9	Acute embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity	ICD-10-CM
I82.4Z1	Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity	ICD-10-CM
182.4Z2	Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity	ICD-10-CM
182.4Z3	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral	ICD-10-CM
182.4Z9	Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity	ICD-10-CM
I82.A11	Acute embolism and thrombosis of right axillary vein	ICD-10-CM
I82.A12	Acute embolism and thrombosis of left axillary vein	ICD-10-CM
I82.A13	Acute embolism and thrombosis of axillary vein, bilateral	ICD-10-CM
I82.A19	Acute embolism and thrombosis of unspecified axillary vein	ICD-10-CM
	Dialysis	
792.5	Cloudy (hemodialysis) (peritoneal) dialysis affluent	ICD-9-CM
V45.1	Renal dialysis status	ICD-9-CM
V45.11	Renal dialysis status	ICD-9-CM
V45.12	Noncompliance with renal dialysis	ICD-9-CM
V56.0	Encounter for extracorporeal dialysis	ICD-9-CM
V56.1	Fitting and adjustment of extracorporeal dialysis catheter	ICD-9-CM
V56.2	Fitting and adjustment of peritoneal dialysis catheter	ICD-9-CM
V56.3	Encounter for adequacy testing for dialysis	ICD-9-CM
V56.31	Encounter for adequacy testing for hemodialysis	ICD-9-CM
V56.32	Encounter for adequacy testing for peritoneal dialysis	ICD-9-CM
V56.8	Encounter other dialysis	ICD-9-CM
R88.0	Cloudy (hemodialysis) (peritoneal) dialysis effluent	ICD-10-CM
Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter	ICD-10-CM
Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	ICD-10-CM
Z99.2	Dependence on renal dialysis	ICD-10-CM
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	CPT-4
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis	CPT-4


Code	Description	Code Type
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator	CPT-4
	dilution method, hook-up; transcutaneous measurement and disconnection	<b>CDT</b> 4
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	CPT-4
0941	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4
0942	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4
0943	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4
0944	Hemodialysis, For Acute Renal Failure And Or Intoxication,	CPT-4
0945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional	CPT-4
0947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial revision of dialysis prescription	CPT-4
0951	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per	CPT-4
0952	month End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	CPT-4
0953	End-stage renal disease (ESRD) related services monthly, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4
0954	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	CPT-4
0955	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	CPT-4
0956	End-stage renal disease (ESRD) related services monthly, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4
0957	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 4 or more face-to-face visits by a physician or other qualified health care professional per month	CPT-4
0958	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 2-3 face-to-face visits by a physician or other qualified health care professional per month	CPT-4
90959	End-stage renal disease (ESRD) related services monthly, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents; with 1 face-to-face visit by a physician or other qualified health care professional per month	CPT-4



Code	Description	Code Type
90960	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 4 or	CPT-4
	more face-to-face visits by a physician or other qualified health care professional per month	
90961	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 2-3	CPT-4
	face-to-face visits by a physician or other qualified health care professional per month	
90962	End-stage renal disease (ESRD) related services monthly, for patients 20 years of age and older; with 1 face-	CPT-4
	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 younger than	CPT-4
	2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development,	
	and counseling of parents	
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2-11 years of	CPT-4
	age to include monitoring for the adequacy of nutrition, assessment of growth and development, and	
00065	counseling of parents	CDT 4
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and	CPT-4
	counseling of parents	
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age	CPT-4
	and older	
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for	CPT-4
	patients younger than 2 years of age	
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for	CPT-4
	patients 2-11 years of age	
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for	CPT-4
00070	patients 12-19 years of age	<b>CDT 4</b>
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for	CPT-4
90976	patients 20 years of age and older Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90970 90977	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4 CPT-4
90978	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90979	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90982	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90983	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90984	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90985	Peritoneal Dialysis For End-stage Renal Disease (esrd),	CPT-4
90988	Supervision Of Hemodialysis In Hospital Or Other Facility (excluding Home Dialysis), On Monthly Basis	CPT-4
90989	Dialysis training, patient, including helper where applicable, any mode, completed course	CPT-4
90990	Hemodialysis Training And/or Counseling	CPT-4
90991	Home Hemodialysis Care, Outpatient, For Those Services Either Provided By The Physician Primarily	CPT-4
	Responsible	
90992	Peritoneal Dialysis Training And/or Counseling	CPT-4
90993	Dialysis training, patient, including helper where applicable, any mode, course not completed, per training	CPT-4
	session	
90994	Supervision Of Chronic Ambulatory Peritoneal Dialysis (capd), Home Or Out-patient (monthly)	CPT-4
90995	End Stage Renal Disease (esrd) Related Services, Per Full Month	CPT-4
90996	Continuous Arteriovenous Hemofiltration (cavh) (per Day)	CPT-4
90997	Hemoperfusion (eg, with activated charcoal or resin)	CPT-4
90998	End Stage Renal Disease (esrd) Related Services (less Than Full Month), Per Day	CPT-4
90999	Unlisted dialysis procedure, inpatient or outpatient	CPT-4



Code	Description	Code Type
	Joint Replacement	
V436	Joint replaced by other means	ICD-9-CM
V4360	Unspecified joint replacement	ICD-9-CM
V4361	Shoulder joint replacement	ICD-9-CM
V4362	Elbow joint replacement	ICD-9-CM
V4363	Wrist joint replacement	ICD-9-CM
V4364	Hip joint replacement	ICD-9-CM
V4365	Knee joint replacement	ICD-9-CM
V4366	Ankle joint replacement	ICD-9-CM
V4369	Other joint replacement	ICD-9-CM
815	JOINT REPLACEMENT LOWER EXTREMITY	ICD-9-CM
8151	TOTAL HIP REPLACEMENT	ICD-9-CM
8152	PARTIAL HIP REPLACEMENT	ICD-9-CM
8153	REVISION OF HIP REPLACEMENT NOS	ICD-9-CM
8154	TOTAL KNEE REPLACEMENT	ICD-9-CM
8155	REVISION OF KNEE REPLACEMENT NOS	ICD-9-CM
8156	TOTAL ANKLE REPLACEMENT	ICD-9-CM
8157	REPLACEMENT OF JOINT OF FOOT&TOE	ICD-9-CM
8159	REV JOINT REPLCMT LOWER EXTREM NEC	ICD-9-CM
818	ARTHROPLASTY&REPAIR SHOULDER&ELBOW	ICD-9-CM
8180	OTHER TOTAL SHOULDER REPLACEMENT	ICD-9-CM
8181	PARTIAL SHOULDER REPLACEMENT	ICD-9-CM
8182	REPAIR RECURRENT DISLOC SHOULDER	ICD-9-CM
8183	OTHER REPAIR OF SHOULDER	ICD-9-CM
8184	TOTAL ELBOW REPLACEMENT	ICD-9-CM
8185	OTHER REPAIR OF ELBOW	ICD-9-CM
24363	REPLACE ELBOW JOINT	CPT-4
27130	TOTAL HIP ARTHROPLASTY	CPT-4
27132	TOTAL HIP ARTHROPLASTY	CPT-4
27134	REVISE HIP JOINT REPLACEMENT	CPT-4
27137	REVISE HIP JOINT REPLACEMENT	CPT-4
27138	REVISE HIP JOINT REPLACEMENT	CPT-4
27447	TOTAL KNEE ARTHROPLASTY	CPT-4
Z96.60	Presence of unspecified orthopedic joint implant	ICD-10-CM
Z96.611	Presence of right artificial shoulder joint	ICD-10-CM
Z96.612	Presence of left artificial shoulder joint	ICD-10-CM
Z96.619	Presence of unspecified artificial shoulder joint	ICD-10-CM
Z96.621	Presence of right artificial elbow joint	ICD-10-CM
Z96.622	Presence of left artificial elbow joint	ICD-10-CM
Z96.629	Presence of unspecified artificial elbow joint	ICD-10-CM
Z96.631	Presence of right artificial wrist joint	ICD-10-CM
Z96.632	Presence of left artificial wrist joint	ICD-10-CM
Z96.639	Presence of unspecified artificial wrist joint	ICD-10-CM
Z96.641	Presence of right artificial hip joint	ICD-10-CM
Z96.642	Presence of left artificial hip joint	ICD-10-CM
Z96.643	Presence of artificial hip joint, bilateral	ICD-10-CM
Z96.649	Presence of unspecified artificial hip joint	ICD-10-CM
Z96.651	Presence of right artificial knee joint	ICD-10-CM



Code	Description	Code Type
Z96.652	Presence of left artificial knee joint	ICD-10-CM
Z96.653	Presence of artificial knee joint, bilateral	ICD-10-CM
Z96.659	Presence of unspecified artificial knee joint	ICD-10-CM
Z96.661	Presence of right artificial ankle joint	ICD-10-CM
Z96.662	Presence of left artificial ankle joint	ICD-10-CM
Z96.669	Presence of unspecified artificial ankle joint	ICD-10-CM
Z96.691	Finger-joint replacement of right hand	ICD-10-CM
Z96.692	Finger-joint replacement of left hand	ICD-10-CM
Z96.693	Finger-joint replacement, bilateral	ICD-10-CM
Z96.698	Presence of other orthopedic joint implants	ICD-10-CM
Z96.7	Presence of other bone and tendon implants	ICD-10-CM
ORQEOZZ	Repair Right Sternoclavicular Joint, Open Approach	ICD-10-PCS
ORQE3ZZ	Repair Right Sternoclavicular Joint, Percutaneous Approach	ICD-10-PCS
ORQE4ZZ	Repair Right Sternoclavicular Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQEXZZ	Repair Right Sternoclavicular Joint, External Approach	ICD-10-PCS
ORQF0ZZ	Repair Left Sternoclavicular Joint, Open Approach	ICD-10-PCS
ORQF3ZZ	Repair Left Sternoclavicular Joint, Percutaneous Approach	ICD-10-PCS
ORQF4ZZ	Repair Left Sternoclavicular Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQFXZZ	Repair Left Sternoclavicular Joint, External Approach	ICD-10-PCS
0RQG0ZZ	Repair Right Acromioclavicular Joint, Open Approach	ICD-10-PCS
0RQG3ZZ	Repair Right Acromioclavicular Joint, Percutaneous Approach	ICD-10-PCS
0RQG4ZZ	Repair Right Acromioclavicular Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQGXZZ	Repair Right Acromioclavicular Joint, External Approach	ICD-10-PCS
ORQHOZZ	Repair Left Acromioclavicular Joint, Open Approach	ICD-10-PCS
0RQH3ZZ	Repair Left Acromioclavicular Joint, Percutaneous Approach	ICD-10-PCS
0RQH4ZZ	Repair Left Acromioclavicular Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQHXZZ	Repair Left Acromioclavicular Joint, External Approach	ICD-10-PCS
ORQJOZZ	Repair Right Shoulder Joint, Open Approach	ICD-10-PCS
ORQJ3ZZ	Repair Right Shoulder Joint, Percutaneous Approach	ICD-10-PCS
ORQJ4ZZ	Repair Right Shoulder Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQJXZZ	Repair Right Shoulder Joint, External Approach	ICD-10-PCS
ORQKOZZ	Repair Left Shoulder Joint, Open Approach	ICD-10-PCS
ORQK3ZZ	Repair Left Shoulder Joint, Percutaneous Approach	ICD-10-PCS
ORQK4ZZ	Repair Left Shoulder Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQKXZZ	Repair Left Shoulder Joint, External Approach	ICD-10-PCS
ORQLOZZ	Repair Right Elbow Joint, Open Approach	ICD-10-PCS
ORQL3ZZ	Repair Right Elbow Joint, Percutaneous Approach	ICD-10-PCS
ORQL4ZZ	Repair Right Elbow Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQLXZZ	Repair Right Elbow Joint, External Approach	ICD-10-PCS
	Repair Left Elbow Joint, Open Approach	ICD-10-PCS
0RQM3ZZ	Repair Left Elbow Joint, Percutaneous Approach	ICD-10-PCS
0RQM4ZZ	Repair Left Elbow Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
ORQMXZZ	Repair Left Elbow Joint, External Approach	ICD-10-PCS
ORRE07Z	Replacement of Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORREOJZ	Replacement of Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORREOKZ	Replacement of Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRF07Z	Replacement of Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRFOJZ	Replacement of Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS



Code	Description	Code Type
ORRFOKZ	Replacement of Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRG07Z	Replacement of Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRGOJZ	Replacement of Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORRGOKZ	Replacement of Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRH07Z	Replacement of Left Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRHOJZ	Replacement of Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORRHOKZ	Replacement of Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRJ07Z	Replacement of Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRJOJ6	Replacement of Right Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	ICD-10-PCS
ORRJOJ7	Replacement of Right Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	ICD-10-PCS
ORRJOJZ	Replacement of Right Shoulder Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORRJOKZ	Replacement of Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRK07Z	Replacement of Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRKOJ6	Replacement of Left Shoulder Joint with Synthetic Substitute, Humeral Surface, Open Approach	ICD-10-PCS
ORRKOJ7	Replacement of Left Shoulder Joint with Synthetic Substitute, Glenoid Surface, Open Approach	ICD-10-PCS
ORRKOJZ	Replacement of Left Shoulder Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORRKOKZ	Replacement of Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRL07Z	Replacement of Right Elbow Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRLOJZ	Replacement of Right Elbow Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORRLOKZ	Replacement of Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0RRM07Z	Replacement of Left Elbow Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORRMOJZ	Replacement of Left Elbow Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORRMOKZ	Replacement of Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORSE04Z	Reposition Right Sternoclavicular Joint with Internal Fixation Device, Open Approach	ICD-10-PCS
ORSEOZZ	Reposition Right Sternoclavicular Joint, Open Approach	ICD-10-PCS
ORSF04Z	Reposition Left Sternoclavicular Joint with Internal Fixation Device, Open Approach	ICD-10-PCS
ORSFOZZ	Reposition Left Sternoclavicular Joint, Open Approach	ICD-10-PCS
0RSG04Z	Reposition Right Acromioclavicular Joint with Internal Fixation Device, Open Approach	ICD-10-PCS
ORSGOZZ	Reposition Right Acromioclavicular Joint, Open Approach	ICD-10-PCS
ORSH04Z	Reposition Left Acromioclavicular Joint with Internal Fixation Device, Open Approach	ICD-10-PCS
ORSHOZZ	Reposition Left Acromioclavicular Joint, Open Approach	ICD-10-PCS
ORSJ04Z	Reposition Right Shoulder Joint with Internal Fixation Device, Open Approach	ICD-10-PCS
ORSJOZZ	Reposition Right Shoulder Joint, Open Approach	ICD-10-PCS
ORSK04Z	Reposition Left Shoulder Joint with Internal Fixation Device, Open Approach	ICD-10-PCS
ORSKOZZ	Reposition Left Shoulder Joint, Open Approach	ICD-10-PCS
ORUE07Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUEOJZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUEOKZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUE37Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUE3JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
ORUE3KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUE47Z	Supplement Right Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUE4JZ	Supplement Right Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUE4KZ	Supplement Right Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUF07Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS



Code	Description	Code Type
ORUFOJZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUFOKZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUF37Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
0RUF3JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
0RUF3KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUF47Z	Supplement Left Sternoclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
	Approach	
ORUF4JZ	Supplement Left Sternoclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUF4KZ	Supplement Left Sternoclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
	Approach	
0RUG07Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUGOJZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUGOKZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0RUG37Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
0RUG3JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
0RUG3KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
0RUG47Z	Supplement Right Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
	Approach	
0RUG4JZ	Supplement Right Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
0RUG4KZ	Supplement Right Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
	Approach	
ORUH07Z		ICD-10-PCS
ORUHOJZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUHOKZ		ICD-10-PCS
ORUH37Z		ICD-10-PCS
ORUH3JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
0RUH3KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUH47Z	Supplement Left Acromioclavicular Joint with Autologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
	Approach	
ORUH4JZ	Supplement Left Acromioclavicular Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUH4KZ	Supplement Left Acromioclavicular Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
	Approach	
ORUJ07Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUJOJZ	Supplement Right Shoulder Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUJOKZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUJ37Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUJ3JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
ORUJ3KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUJ47Z	Supplement Right Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUJ4JZ	Supplement Right Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUJ4KZ	Supplement Right Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
ORUK07Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUKOJZ	Supplement Left Shoulder Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUKOKZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUK37Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUK3JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS



Code	Description	Code Type
ORUK3KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUK47Z	Supplement Left Shoulder Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUK4JZ	Supplement Left Shoulder Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUK4KZ	Supplement Left Shoulder Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUL07Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORULOJZ	Supplement Right Elbow Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORULOKZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUL37Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUL3JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
ORUL3KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUL47Z	Supplement Right Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUL4JZ	Supplement Right Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUL4KZ	Supplement Right Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUM07Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUMOJZ	Supplement Left Elbow Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
ORUMOKZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
ORUM37Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUM3JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
ORUM47Z	Supplement Left Elbow Joint with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUM4JZ	Supplement Left Elbow Joint with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
ORUM4KZ	Supplement Left Elbow Joint with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
OSR9019	Replacement of Right Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
0SR901A	Replacement of Right Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
0SR901Z	Replacement of Right Hip Joint with Metal Synthetic Substitute, Open Approach	ICD-10-PCS
0SR9029	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open	ICD-10-PCS
0SR902A	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open	ICD-10-PCS
0SR902Z	Replacement of Right Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	ICD-10-PCS
0SR9039	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
0SR903A	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
0SR903Z	Replacement of Right Hip Joint with Ceramic Synthetic Substitute, Open Approach	ICD-10-PCS
0SR9049	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open	ICD-10-PCS
0SR904A	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
0SR904Z	Replacement of Right Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	ICD-10-PCS
0SR907Z	Replacement of Right Hip Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
0SR90J9	Replacement of Right Hip Joint with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSR90JA	Replacement of Right Hip Joint with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSR90JZ	Replacement of Right Hip Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSR90KZ	Replacement of Right Hip Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRA009	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRA00A	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
0SRA00Z	Replacement of Right Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	ICD-10-PCS
0SRA019	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open	ICD-10-PCS
	Approach	



Code	Description	Code Type
0SRA01A	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open	ICD-10-PCS
	Approach	
0SRA01Z	Replacement of Right Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	ICD-10-PCS
0SRA039	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
0SRA03A	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
0SRA03Z	Replacement of Right Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	ICD-10-PCS
0SRA07Z	Replacement of Right Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRAOJ9	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRAOJA	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	
OSRAOJZ	Replacement of Right Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRAOKZ	Replacement of Right Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRB019	Replacement of Left Hip Joint with Metal Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRB01A	Replacement of Left Hip Joint with Metal Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRB01Z	Replacement of Left Hip Joint with Metal Synthetic Substitute, Open Approach	ICD-10-PCS
OSRB029	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
0SRB02A	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Uncemented, Open	ICD-10-PCS
OSRB02Z	Replacement of Left Hip Joint with Metal on Polyethylene Synthetic Substitute, Open Approach	ICD-10-PCS
0SRB039	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRB03A	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRB03Z	Replacement of Left Hip Joint with Ceramic Synthetic Substitute, Open Approach	ICD-10-PCS
OSRB049	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Cemented, Open	ICD-10-PCS
0SRB04A	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Uncemented, Open	ICD-10-PCS
	Approach	
OSRB04Z	Replacement of Left Hip Joint with Ceramic on Polyethylene Synthetic Substitute, Open Approach	ICD-10-PCS
OSRB07Z	Replacement of Left Hip Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRBOJ9	Replacement of Left Hip Joint with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRBOJA	Replacement of Left Hip Joint with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRBOJZ	Replacement of Left Hip Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRBOKZ	Replacement of Left Hip Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRC07Z	Replacement of Right Knee Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS ICD-10-PCS
OSRCOJ9	Replacement of Right Knee Joint with Synthetic Substitute, Cemented, Open Approach Replacement of Right Knee Joint with Synthetic Substitute, Uncemented, Open Approach	
OSRCOJA OSRCOJZ	Replacement of Right Knee Joint with Synthetic Substitute, Open Approach	ICD-10-PCS ICD-10-PCS
OSRCOIZ	Replacement of Right Knee Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRCOL9	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Open Approach	ICD-10-PCS
OSRCOLA	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRCOLZ	Replacement of Right Knee Joint with Unicondylar Synthetic Substitute, Open Approach	ICD-10-PCS
0SRD07Z	Replacement of Left Knee Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRD072	Replacement of Left Knee Joint with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRDOJA	Replacement of Left Knee Joint with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRDOJZ	Replacement of Left Knee Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRDOJZ	Replacement of Left Knee Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRDOL9	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS



Code	Description	Code Type
OSRDOLZ	Replacement of Left Knee Joint with Unicondylar Synthetic Substitute, Open Approach	ICD-10-PCS
OSRE009	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Cemented, Open	ICD-10-PCS
	Approach	
OSRE00A	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Uncemented,	ICD-10-PCS
	Open Approach	
OSRE00Z	Replacement of Left Hip Joint, Acetabular Surface with Polyethylene Synthetic Substitute, Open Approach	ICD-10-PCS
OSRE019	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Cemented, Open	ICD-10-PCS
OSRE01A	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRE01Z	Replacement of Left Hip Joint, Acetabular Surface with Metal Synthetic Substitute, Open Approach	ICD-10-PCS
OSRE039	Replacement of Left Hip Joint, Acetabular Surface with Geramic Synthetic Substitute, Cemented, Open	ICD-10-PCS
05112055	Approach	100 101 00
OSRE03A	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Uncemented, Open	ICD-10-PCS
001120071	Approach	100 10 100
OSRE03Z	Replacement of Left Hip Joint, Acetabular Surface with Ceramic Synthetic Substitute, Open Approach	ICD-10-PCS
OSRE07Z	Replacement of Left Hip Joint, Acetabular Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSREOJ9	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSREOJA	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSREOJZ OSREOKZ	Replacement of Left Hip Joint, Acetabular Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
	Replacement of Left Hip Joint, Acetabular Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
DSRF07Z	Replacement of Right Ankle Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRF0J9	Replacement of Right Ankle Joint with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRFOJA	Replacement of Right Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRFOJZ	Replacement of Right Ankle Joint with Synthetic Substitute, Open Approach Replacement of Right Ankle Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRFOKZ	Replacement of Left Ankle Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRG07Z OSRG0J9	Replacement of Left Ankle Joint with Autologous Tissue Substitute, Open Approach Replacement of Left Ankle Joint with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRGOJA	Replacement of Left Ankle Joint with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRG0JZ	Replacement of Left Ankle Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRG0KZ	Replacement of Left Ankle Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRH07Z	Replacement of Right Tarsal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRHOJZ	Replacement of Right Tarsal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRHOKZ	Replacement of Right Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRJ07Z	Replacement of Left Tarsal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRJOJZ	Replacement of Left Tarsal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRJOKZ	Replacement of Left Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRK07Z	Replacement of Right Metatarsal-Tarsal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRKOJZ	Replacement of Right Metatarsal-Tarsal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRKOKZ	Replacement of Right Metatarsal-Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRL07Z	Replacement of Left Metatarsal-Tarsal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRLOJZ	Replacement of Left Metatarsal-Tarsal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRLOKZ	Replacement of Left Metatarsal-Tarsal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRM07Z	Replacement of Right Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRMOJZ	Replacement of Right Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRMOKZ	Replacement of Right Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRN07Z	Replacement of Left Metatarsal-Phalangeal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRNOJZ	Replacement of Left Metatarsal-Phalangeal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS



Code	Description	Code Type
OSRNOKZ	Replacement of Left Metatarsal-Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRP07Z	Replacement of Right Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRPOJZ	Replacement of Right Toe Phalangeal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRPOKZ	Replacement of Right Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRQ07Z	Replacement of Left Toe Phalangeal Joint with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRQOJZ	Replacement of Left Toe Phalangeal Joint with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRQOKZ	Replacement of Left Toe Phalangeal Joint with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRR019	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open	ICD-10-PCS
0SRR01A	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRR01Z	Replacement of Right Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	ICD-10-PCS
OSRRO39	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
0SRR03A	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
0SRR03Z	Replacement of Right Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach	ICD-10-PCS
OSRR07Z	Replacement of Right Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRROJ9	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRROJA	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRROJZ	Replacement of Right Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRROKZ	Replacement of Right Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRS019	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRS01A	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Uncemented, Open	ICD-10-PCS
0SRS01Z	Replacement of Left Hip Joint, Femoral Surface with Metal Synthetic Substitute, Open Approach	ICD-10-PCS
0SRS039	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Cemented, Open	ICD-10-PCS
0SRS03A	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Uncemented, Open	ICD-10-PCS
0505027	Approach Bankagment of Loft Llin Joint, Femaral Surface with Coromia Sunthetic Substitute, Open Approach	
OSRSO3Z OSRSO7Z	Replacement of Left Hip Joint, Femoral Surface with Ceramic Synthetic Substitute, Open Approach Replacement of Left Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS ICD-10-PCS
OSRS072	Replacement of Left Hip Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRSOJA	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRSOJZ	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRSOKZ	Replacement of Left Hip Joint, Femoral Surface with Synthetic Substitute, Open Approach Replacement of Left Hip Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRT07Z	Replacement of Right Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRTOJ9	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRTOJA	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRTOJZ	Replacement of Right Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRTOKZ	Replacement of Right Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRU07Z	Replacement of Left Knee Joint, Femoral Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRU072	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRUOJA	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRUOJZ	Replacement of Left Knee Joint, Femoral Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRUOKZ	Replacement of Left Knee Joint, Femoral Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRV07Z	Replacement of Right Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
OSRV0J9	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
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Code	Description	Code Type
<b>OSRVOJA</b>	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
<b>OSRVOJZ</b>	Replacement of Right Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
<b>OSRVOKZ</b>	Replacement of Right Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRW07Z	Replacement of Left Knee Joint, Tibial Surface with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
0SRW0J9	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Cemented, Open Approach	ICD-10-PCS
OSRWOJA	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Uncemented, Open Approach	ICD-10-PCS
OSRWOJZ	Replacement of Left Knee Joint, Tibial Surface with Synthetic Substitute, Open Approach	ICD-10-PCS
OSRWOKZ	Replacement of Left Knee Joint, Tibial Surface with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
0SW90JZ	Revision of Synthetic Substitute in Right Hip Joint, Open Approach	ICD-10-PCS
0SW93JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Approach	ICD-10-PCS
0SW94JZ	Revision of Synthetic Substitute in Right Hip Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWA0JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Open Approach	ICD-10-PCS
0SWA3JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Approach	ICD-10-PCS
0SWA4JZ	Revision of Synthetic Substitute in Right Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWBOJZ	Revision of Synthetic Substitute in Left Hip Joint, Open Approach	ICD-10-PCS
OSWB3JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Approach	ICD-10-PCS
OSWB4JZ	Revision of Synthetic Substitute in Left Hip Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWCOJC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Open Approach	ICD-10-PCS
0SWC0JZ	Revision of Synthetic Substitute in Right Knee Joint, Open Approach	ICD-10-PCS
OSWC3JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Approach	ICD-10-PCS
0SWC3JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Approach	ICD-10-PCS
0SWC4JC	Revision of Synthetic Substitute in Right Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWC4JZ	Revision of Synthetic Substitute in Right Knee Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWDOJC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Open Approach	ICD-10-PCS
OSWDOJZ	Revision of Synthetic Substitute in Left Knee Joint, Open Approach	ICD-10-PCS
0SWD3JC		ICD-10-PCS
0SWD3JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Approach	ICD-10-PCS
0SWD4JC	Revision of Synthetic Substitute in Left Knee Joint, Patellar Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWD4JZ	Revision of Synthetic Substitute in Left Knee Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWEOJZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Open Approach	ICD-10-PCS
OSWE3JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Approach	ICD-10-PCS
OSWE4JZ	Revision of Synthetic Substitute in Left Hip Joint, Acetabular Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWFOJZ	Revision of Synthetic Substitute in Right Ankle Joint, Open Approach	ICD-10-PCS
OSWF3JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Approach	ICD-10-PCS
OSWF4JZ	Revision of Synthetic Substitute in Right Ankle Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWG0JZ	Revision of Synthetic Substitute in Left Ankle Joint, Open Approach	ICD-10-PCS
0SWG3JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Approach	ICD-10-PCS
0SWG4JZ	Revision of Synthetic Substitute in Left Ankle Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
	Revision of Synthetic Substitute in Right Tarsal Joint, Open Approach Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Approach	ICD-10-PCS ICD-10-PCS
0SWH3JZ 0SWH4JZ	Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Approach Revision of Synthetic Substitute in Right Tarsal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWH4JZ 0SWJ0JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Open Approach	ICD-10-PCS
03WJ0JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Approach	ICD-10-PCS
OSWJ4JZ	Revision of Synthetic Substitute in Left Tarsal Joint, Percutaneous Approach	ICD-10-PCS
OSWKOJZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Open Approach	ICD-10-PCS
OSWK3JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Percutaneous Approach	ICD-10-PCS
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Code	Description	Code Type
OSWK4JZ	Revision of Synthetic Substitute in Right Metatarsal-Tarsal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
<b>OSWLOJZ</b>	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Open Approach	ICD-10-PCS
0SWL3JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Percutaneous Approach	ICD-10-PCS
0SWL4JZ	Revision of Synthetic Substitute in Left Metatarsal-Tarsal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWM0JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Open Approach	ICD-10-PCS
0SWM3JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Approach	ICD-10-PCS
0SWM4JZ	Revision of Synthetic Substitute in Right Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
<b>OSWNOJZ</b>	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Open Approach	ICD-10-PCS
0SWN3JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Approach	ICD-10-PCS
0SWN4JZ	Revision of Synthetic Substitute in Left Metatarsal-Phalangeal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
<b>OSWPOJZ</b>	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Open Approach	ICD-10-PCS
0SWP3JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Approach	ICD-10-PCS
0SWP4JZ	Revision of Synthetic Substitute in Right Toe Phalangeal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWQ0JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Open Approach	ICD-10-PCS
0SWQ3JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Approach	ICD-10-PCS
0SWQ4JZ	Revision of Synthetic Substitute in Left Toe Phalangeal Joint, Percutaneous Endoscopic Approach	ICD-10-PCS
OSWROJZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Open Approach	ICD-10-PCS
0SWR3JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Approach	ICD-10-PCS
OSWR4JZ	Revision of Synthetic Substitute in Right Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWS0JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Open Approach	ICD-10-PCS
0SWS3JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Approach	ICD-10-PCS
0SWS4JZ	Revision of Synthetic Substitute in Left Hip Joint, Femoral Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
<b>OSWTOJZ</b>	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Open Approach	ICD-10-PCS
0SWT3JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Approach	ICD-10-PCS
0SWT4JZ	Revision of Synthetic Substitute in Right Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWU0JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Open Approach	ICD-10-PCS
0SWU3JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Approach	ICD-10-PCS
0SWU4JZ	Revision of Synthetic Substitute in Left Knee Joint, Femoral Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWV0JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Open Approach	ICD-10-PCS
0SWV3JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Approach	ICD-10-PCS
0SWV4JZ	Revision of Synthetic Substitute in Right Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
0SWW0JZ	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Open Approach	ICD-10-PCS
	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Approach	ICD-10-PCS
	Revision of Synthetic Substitute in Left Knee Joint, Tibial Surface, Percutaneous Endoscopic Approach	ICD-10-PCS
	Kidney Replacement	
556	Transplant of kidney	ICD-9-CM

556	Transplant of kidney	ICD-9-CM
5561	Renal autotransplantation	ICD-9-CM
5569	Other kidney transplantation	ICD-9-CM
99681	Complications of transplanted kidney	ICD-9-CM
V420	Kidney replaced by transplant	ICD-9-CM
T86.10	Unspecified complication of kidney transplant	ICD-10-CM
T86.11	Kidney transplant rejection	ICD-10-CM
T86.12	Kidney transplant failure	ICD-10-CM
T86.13	Kidney transplant infection	ICD-10-CM
T86.19	Other complication of kidney transplant	ICD-10-CM
Z48.22	Encounter for aftercare following kidney transplant	ICD-10-CM
Z94.0	Kidney transplant status	ICD-10-CM



Code	Description	Code Type
0TS00ZZ	Reposition Right Kidney, Open Approach	ICD-10-PCS
0TS10ZZ	Reposition Left Kidney, Open Approach	ICD-10-PCS
0TY00Z0	Transplantation of Right Kidney, Allogeneic, Open Approach	ICD-10-PCS
0TY00Z1	Transplantation of Right Kidney, Syngeneic, Open Approach	ICD-10-PCS
0TY00Z2	Transplantation of Right Kidney, Zooplastic, Open Approach	ICD-10-PCS
0TY10Z0	Transplantation of Left Kidney, Allogeneic, Open Approach	ICD-10-PCS
0TY10Z1	Transplantation of Left Kidney, Syngeneic, Open Approach	ICD-10-PCS
0TY10Z2	Transplantation of Left Kidney, Zooplastic, Open Approach	ICD-10-PCS
	Mitral Stenosis	
394.0	Mitral stenosis	ICD-9-CM
394.1	Rheumatic mitral insufficiency	ICD-9-CM
394.2	Mitral stenosis with insufficiency	ICD-9-CM
396.0	Mitral valve stenosis and aortic valve stenosis	ICD-9-CM
396.1	Mitral valve stenosis and aortic valve insufficiency	ICD-9-CM
396.2	Mitral valve insufficiency and aortic valve stenosis	ICD-9-CM
396.3	Mitral valve insufficiency and aortic valve insufficiency	ICD-9-CM
746.5	Congenital mitral stenosis	ICD-9-CM
746.6	Congenital mitral insufficiency	ICD-9-CM
105.0	Rheumatic mitral stenosis	ICD-10-CM
105.1	Rheumatic mitral insufficiency	ICD-10-CM
105.2	Rheumatic mitral stenosis with insufficiency	ICD-10-CM
108.0	Rheumatic disorders of both mitral and aortic valves	ICD-10-CM
108.3	Combined rheumatic disorders of mitral, aortic and tricuspid valves	ICD-10-CM
134.2	Nonrheumatic mitral stenosis	ICD-10-CM
Q23.2	Congenital mitral stenosis	ICD-10-CM
Q23.3	Congenital mitral insufficiency	ICD-10-CM
027G04Z	Dilation of Mitral Valve with Drug-eluting Intraluminal Device, Open Approach	ICD-10-PCS
027G0DZ	Dilation of Mitral Valve with Intraluminal Device, Open Approach	ICD-10-PCS
027G0ZZ	Dilation of Mitral Valve, Open Approach	ICD-10-PCS
02NG0ZZ	Release Mitral Valve, Open Approach	ICD-10-PCS
02QG0ZZ	Repair Mitral Valve, Open Approach	ICD-10-PCS
02VG0ZZ	Restriction of Mitral Valve, Open Approach	ICD-10-PCS
	Pulmonary Embolism	
4151	Pulmonary embolism and infarction	ICD-9-CM
41511	latrogenic pulmonary embolism and infarction	ICD-9-CM
41512	Septic pulmonary embolism	ICD-9-CM
41519	Other pulmonary embolism and infarction	ICD-9-CM
126.01	Septic pulmonary embolism with acute cor pulmonale	ICD-10-CM
126.09	Other pulmonary embolism with acute cor pulmonale	ICD-10-CM
126.90	Septic pulmonary embolism without acute cor pulmonale	ICD-10-CM
126.99	Other pulmonary embolism without acute cor pulmonale	ICD-10-CM
T80.0XXA	Air embolism following infusion, transfusion and therapeutic injection, initial encounter	ICD-10-CM
T81.718A	Complication of other artery following a procedure, not elsewhere classified, initial encounter	ICD-10-CM
T81.72XA	Complication of vein following a procedure, not elsewhere classified, initial encounter	ICD-10-CM
T82.817A	Embolism due to cardiac prosthetic devices, implants and grafts, initial encounter	ICD-10-CM
T82.818A	Embolism due to vascular prosthetic devices, implants and grafts, initial encounter	ICD-10-CM
	Valve Repair	

## 33400 REPAIR OF AORTIC VALVE

CPT-4



Code	Description	Code Type
33401	VALVULOPLASTY OPEN	CPT-4
33403	VALVULOPLASTY W/CP BYPASS	CPT-4
33420	REVISION OF MITRAL VALVE	CPT-4
33422	REVISION OF MITRAL VALVE	CPT-4
33425	REPAIR OF MITRAL VALVE	CPT-4
33426	REPAIR OF MITRAL VALVE	CPT-4
33427	REPAIR OF MITRAL VALVE	CPT-4
33463	VALVULOPLASTY TRICUSPID	CPT-4
33464	VALVULOPLASTY TRICUSPID	CPT-4
33465	REPLACE TRICUSPID VALVE	CPT-4
33470	REVISION OF PULMONARY VALVE	CPT-4
33471	VALVOTOMY PULMONARY VALVE	CPT-4
33472	REVISION OF PULMONARY VALVE	CPT-4
33474	REVISION OF PULMONARY VALVE	CPT-4
92986	REVISION OF AORTIC VALVE	CPT-4
92987	REVISION OF MITRAL VALVE	CPT-4
92990	REVISION OF PULMONARY VALVE	CPT-4
	Valve Replacement	
V422	Heart valve replaced by transplant	ICD-9-CM
V433	Heart valve replaced by other means	ICD-9-CM
352	OPEN & OTHR REPLACEMENT HEART VALVE	ICD-9-CM
3520	OPEN & OTHER REPL UNS HEART VALVE	ICD-9-CM
3521	OPEN OTH REPL AORTIC VALVE TISS GFT	ICD-9-CM
3522	OPEN & OTHR REPLACEMNT AORTIC VALVE	ICD-9-CM
3523	OPN OTH REPL MITRL VALVE TISS GRAFT	ICD-9-CM
3524	OPEN & OTHER REPLCEMNT MITRAL VALVE	ICD-9-CM
3525	OPEN OTH REPL PULM VALVE TISS GRAFT	ICD-9-CM
3526	OPEN & OTHER REPL PULMONARY VALVE	ICD-9-CM
3527	OPEN & OTH REPL TV W/TISSUE GRAFT	ICD-9-CM
3528	OPEN & OTHER REPL TRICUSPD VALVE	ICD-9-CM
33405	REPLACEMENT OF AORTIC VALVE	CPT-4
33406	REPLACEMENT OF AORTIC VALVE	CPT-4
33410	REPLACEMENT OF AORTIC VALVE	CPT-4
33411	REPLACEMENT OF AORTIC VALVE	CPT-4
33412	REPLACEMENT OF AORTIC VALVE	CPT-4
33413	REPLACEMENT OF AORTIC VALVE	CPT-4
33430	REPLACEMENT OF MITRAL VALVE	CPT-4
33465	REPLACE TRICUSPID VALVE	CPT-4
33475	REPLACEMENT PULMONARY VALVE	CPT-4
33496	REPAIR PROSTH VALVE CLOT	CPT-4
Z95.2	Presence of prosthetic heart valve	ICD-10-CM
Z95.3	Presence of xenogenic heart valve	ICD-10-CM
Z95.4	Presence of other heart-valve replacement	ICD-10-CM
02RF07Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
02RF08Z	Replacement of Aortic Valve with Zooplastic Tissue, Open Approach	ICD-10-PCS
02RF0JZ	Replacement of Aortic Valve with Synthetic Substitute, Open Approach	ICD-10-PCS
02RF0KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
02RF47Z	Replacement of Aortic Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS



Code	Description	Code Type
02RF48Z	Replacement of Aortic Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	ICD-10-PCS
02RF4JZ	Replacement of Aortic Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RF4KZ	Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RG07Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
02RG08Z	Replacement of Mitral Valve with Zooplastic Tissue, Open Approach	ICD-10-PCS
02RG0JZ	Replacement of Mitral Valve with Synthetic Substitute, Open Approach	ICD-10-PCS
02RG0KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
02RG37Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
02RG38Z	Replacement of Mitral Valve with Zooplastic Tissue, Percutaneous Approach	ICD-10-PCS
02RG3JZ	Replacement of Mitral Valve with Synthetic Substitute, Percutaneous Approach	ICD-10-PCS
02RG3KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Approach	ICD-10-PCS
02RG47Z	Replacement of Mitral Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RG48Z	Replacement of Mitral Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	ICD-10-PCS
02RG4JZ	Replacement of Mitral Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RG4KZ	Replacement of Mitral Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RH07Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
02RH08Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Open Approach	ICD-10-PCS
02RH0JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Open Approach	ICD-10-PCS
02RH0KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
02RH47Z	Replacement of Pulmonary Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RH48Z	Replacement of Pulmonary Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	ICD-10-PCS
02RH4JZ	Replacement of Pulmonary Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RH4KZ	Replacement of Pulmonary Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic	ICD-10-PCS
02RJ07Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Open Approach	ICD-10-PCS
02RJ08Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Open Approach	ICD-10-PCS
02RJ0JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Open Approach	ICD-10-PCS
02RJ0KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Open Approach	ICD-10-PCS
02RJ47Z	Replacement of Tricuspid Valve with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RJ48Z	Replacement of Tricuspid Valve with Zooplastic Tissue, Percutaneous Endoscopic Approach	ICD-10-PCS
02RJ4JZ	Replacement of Tricuspid Valve with Synthetic Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
02RJ4KZ	Replacement of Tricuspid Valve with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	ICD-10-PCS
X2RF032	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Open Approach, New	ICD-10-PCS
	Technology Group 2	
X2RF432	Replacement of Aortic Valve using Zooplastic Tissue, Rapid Deployment Technique, Percutaneous	ICD-10-PCS
	Endoscopic Approach, New Technology Group 2	



Code	Description	Code Type
	Gastrointestinal Hemorrhage (inpatient care setting in primary diagnosis position)	
455.2	Internal hemorrhoids with other complication	ICD-9-CM
455.5	External hemorrhoids with other complication	ICD-9-CM
456.0	Esophageal varices with bleeding	ICD-9-CM
456.20	Esophageal varices with bleeding in diseases classified elsewhere	ICD-9-CM
530.7	Gastroesophageal laceration-hemorrhage syndrome	ICD-9-CM
530.82	Esophageal hemorrhage	ICD-9-CM
531.0	Acute gastric ulcer with hemorrhage	ICD-9-CM
31.00	Acute gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
31.01	Acute gastric ulcer with hemorrhage and obstruction	ICD-9-CM
531.1	Acute gastric ulcer with perforation	ICD-9-CM
31.10	Acute gastric ulcer with perforation, without mention of obstruction	ICD-9-CM
31.11	Acute gastric ulcer with perforation and obstruction	ICD-9-CM
31.2	Acute gastric ulcer with hemorrhage and perforation	ICD-9-CM
31.20	Acute gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
31.21	Acute gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
31.3	Acute gastric ulcer without mention of hemorrhage or perforation	ICD-9-CM
31.30	Acute gastric ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
31.31	Acute gastric ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM
31.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-9-CM
31.40	Chronic or unspecified gastric ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
31.41	Chronic or unspecified gastric ulcer with hemorrhage and obstruction	ICD-9-CM
31.5	Chronic or unspecified gastric ulcer with perforation	ICD-9-CM
31.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	ICD-9-CM
31.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction	ICD-9-CM
31.6	Chronic or unspecified gastric ulcer with hemorrhage and perforation	ICD-9-CM
31.60	Chronic or unspecified gastric ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
31.61	Chronic or unspecified gastric ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
32.0	Acute duodenal ulcer with hemorrhage	ICD-9-CM
32.00	Acute duodenal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
32.01	Acute duodenal ulcer with hemorrhage and obstruction	ICD-9-CM
32.1	Acute duodenal ulcer with perforation	ICD-9-CM
32.10	Acute duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM
32.11	Acute duodenal ulcer with perforation and obstruction	ICD-9-CM
32.2	Acute duodenal ulcer with hemorrhage and perforation	ICD-9-CM
32.20	Acute duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
32.21	Acute duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
32.3	Acute duodenal ulcer without mention of hemorrhage or perforation	ICD-9-CM
32.30	Acute duodenal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
32.31	Acute duodenal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM
32.4	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-9-CM
32.40	Duodenal ulcer, chronic or unspecified, with hemorrhage, without mention of obstruction	ICD-9-CM
32.41	Chronic or unspecified duodenal ulcer with hemorrhage and obstruction	ICD-9-CM
32.5	Chronic or unspecified duodenal ulcer with perforation	ICD-9-CM
32.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction	ICD-9-CM
32.51	Chronic or unspecified duodenal ulcer with perforation and obstruction	ICD-9-CM
32.6	Chronic or unspecified duodenal ulcer with hemorrhage and perforation	ICD-9-CM
32.60	Chronic or unspecified duodenal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
532.61	Chronic or unspecified duodenal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM



Code	Description	Code Type
533.0	Acute peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM
533.00	Acute peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM
533.01	Acute peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM
533.1	Acute peptic ulcer, unspecified site, with perforation	ICD-9-CM
533.10	Acute peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM
533.11	Acute peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM
533.2	Acute peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM
533.20	Acute peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
533.21	Acute peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM
533.3	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation	ICD-9-CM
533.30	Acute peptic ulcer, unspecified site, without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
533.31	Acute peptic ulcer, unspecified site, without mention of hemorrhage and perforation, with obstruction	ICD-9-CM
533.4	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage	ICD-9-CM
533.40	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, without mention of obstruction	ICD-9-CM
533.41	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and obstruction	ICD-9-CM
533.5	Chronic or unspecified peptic ulcer, unspecified site, with perforation	ICD-9-CM
533.50	Chronic or unspecified peptic ulcer, unspecified site, with perforation, without mention of obstruction	ICD-9-CM
533.51	Chronic or unspecified peptic ulcer, unspecified site, with perforation and obstruction	ICD-9-CM
533.6	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation	ICD-9-CM
533.60	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage and perforation, without mention of	
	obstruction	
533.61	Chronic or unspecified peptic ulcer, unspecified site, with hemorrhage, perforation, and obstruction	ICD-9-CM
534.0	Acute gastrojejunal ulcer with hemorrhage	ICD-9-CM
534.00	Acute gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
534.01	Acute gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM
534.1	Acute gastrojejunal ulcer with perforation	ICD-9-CM
534.10	Acute gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM
534.11	Acute gastrojejunal ulcer with perforation and obstruction	ICD-9-CM
534.2	Acute gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM
534.20	Acute gastrojejunal ulcer with hemorrhage and perforation, without mention of obstruction	ICD-9-CM
534.21	Acute gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
534.3	Acute gastrojejunal ulcer without mention of hemorrhage or perforation	ICD-9-CM
534.30	Acute gastrojejunal ulcer without mention of hemorrhage, perforation, or obstruction	ICD-9-CM
534.31	Acute gastrojejunal ulcer without mention of hemorrhage or perforation, with obstruction	ICD-9-CM
534.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-9-CM
534.40	Chronic or unspecified gastrojejunal ulcer with hemorrhage, without mention of obstruction	ICD-9-CM
534.41	Chronic or unspecified gastrojejunal ulcer, with hemorrhage and obstruction	ICD-9-CM
534.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-9-CM
534.50	Chronic or unspecified gastrojejunal ulcer with perforation, without mention of obstruction	ICD-9-CM
534.51	Chronic or unspecified gastrojejunal ulcer with perforation and obstruction	ICD-9-CM
534.6	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation	ICD-9-CM
534.60	Chronic or unspecified gastrojejunal ulcer with hemorrhage and perforation, without mention of	ICD-9-CM
534.61	Chronic or unspecified gastrojejunal ulcer with hemorrhage, perforation, and obstruction	ICD-9-CM
535.01	Acute gastritis with hemorrhage	ICD-9-CM
535.11	Atrophic gastritis with hemorrhage	ICD-9-CM
535.21	Gastric mucosal hypertrophy with hemorrhage	ICD-9-CM
535.31	Alcoholic gastritis with hemorrhage	ICD-9-CM
535.41	Other specified gastritis with hemorrhage	ICD-9-CM



Code	Description	Code Type
535.51	Unspecified gastritis and gastroduodenitis with hemorrhage	ICD-9-CM
535.61	Duodenitis with hemorrhage	ICD-9-CM
537.83	Angiodysplasia of stomach and duodenum with hemorrhage	ICD-9-CM
562.02	Diverticulosis of small intestine with hemorrhage	ICD-9-CM
562.03	Diverticulitis of small intestine with hemorrhage	ICD-9-CM
562.12	Diverticulosis of colon with hemorrhage	ICD-9-CM
562.13	Diverticulitis of colon with hemorrhage	ICD-9-CM
568.81	Hemoperitoneum (nontraumatic)	ICD-9-CM
569.3	Hemorrhage of rectum and anus	ICD-9-CM
569.85	Angiodysplasia of intestine with hemorrhage	ICD-9-CM
578.0	Hematemesis	ICD-9-CM
578.1	Blood in stool	ICD-9-CM
578.9	Hemorrhage of gastrointestinal tract, unspecified	ICD-9-CM
185.01	Esophageal varices with bleeding	ICD-10-CM
185.11	Secondary esophageal varices with bleeding	ICD-10-CM
K22.6	Gastro-esophageal laceration-hemorrhage syndrome	ICD-10-CM
K22.8	Other specified diseases of esophagus	ICD-10-CM
K25.0	Acute gastric ulcer with hemorrhage	ICD-10-CM
K25.1	Acute gastric ulcer with perforation	ICD-10-CM
K25.2	Acute gastric ulcer with both hemorrhage and perforation	ICD-10-CM
K25.3	Acute gastric ulcer without hemorrhage or perforation	ICD-10-CM
K25.4	Chronic or unspecified gastric ulcer with hemorrhage	ICD-10-CM
K25.5	Chronic or unspecified gastric ulcer with perforation	ICD-10-CM
K25.6	Chronic or unspecified gastric ulcer with both hemorrhage and perforation	ICD-10-CM
K26.0	Acute duodenal ulcer with hemorrhage	ICD-10-CM
K26.1	Acute duodenal ulcer with perforation	ICD-10-CM
K26.2	Acute duodenal ulcer with both hemorrhage and perforation	ICD-10-CM
K26.3	Acute duodenal ulcer without hemorrhage or perforation	ICD-10-CM
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage	ICD-10-CM
K26.5	Chronic or unspecified duodenal ulcer with perforation	ICD-10-CM
K26.6	Chronic or unspecified duodenal ulcer with both hemorrhage and perforation	ICD-10-CM
K27.0	Acute peptic ulcer, site unspecified, with hemorrhage	ICD-10-CM
K27.1	Acute peptic ulcer, site unspecified, with perforation	ICD-10-CM
K27.2	Acute peptic ulcer, site unspecified, with both hemorrhage and perforation	ICD-10-CM
K27.3	Acute peptic ulcer, site unspecified, without hemorrhage or perforation	ICD-10-CM
K27.4	Chronic or unspecified peptic ulcer, site unspecified, with hemorrhage	ICD-10-CM
K27.5	Chronic or unspecified peptic ulcer, site unspecified, with perforation	ICD-10-CM
K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both hemorrhage and perforation	ICD-10-CM
K28.0	Acute gastrojejunal ulcer with hemorrhage	ICD-10-CM
K28.1	Acute gastrojejunal ulcer with perforation	ICD-10-CM
K28.2	Acute gastrojejunal ulcer with both hemorrhage and perforation	ICD-10-CM
K28.3	Acute gastrojejunal ulcer without hemorrhage or perforation	ICD-10-CM
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage	ICD-10-CM
K28.5	Chronic or unspecified gastrojejunal ulcer with perforation	ICD-10-CM
K28.6	Chronic or unspecified gastrojejunal ulcer with both hemorrhage and perforation	ICD-10-CM
K29.01	Acute gastritis with bleeding	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	ICD-10-CM
K29.31	Chronic superficial gastritis with bleeding	ICD-10-CM
K29.41	Chronic atrophic gastritis with bleeding	ICD-10-CM



Code	Description	Code Type
K29.51	Unspecified chronic gastritis with bleeding	ICD-10-CM
K29.61	Other gastritis with bleeding	ICD-10-CM
K29.71	Gastritis, unspecified, with bleeding	ICD-10-CM
K29.81	Duodenitis with bleeding	ICD-10-CM
K29.91	Gastroduodenitis, unspecified, with bleeding	ICD-10-CM
K31.811	Angiodysplasia of stomach and duodenum with bleeding	ICD-10-CM
K55.21	Angiodysplasia of colon with hemorrhage	ICD-10-CM
K56.60	Unspecified intestinal obstruction	ICD-10-CM
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding	ICD-10-CM
K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding	ICD-10-CM
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding	ICD-10-CM
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding	ICD-10-CM
K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding	ICD-10-CM
K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding	ICD-10-CM
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding	ICD-10-CM
K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with bleeding	ICD-10-CM
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding	ICD-10-CM
K62.5	Hemorrhage of anus and rectum	ICD-10-CM
K66.1	Hemoperitoneum	ICD-10-CM
K92.0	Hematemesis	ICD-10-CM
K92.1	Melena	ICD-10-CM
K92.2	Gastrointestinal hemorrhage, unspecified	ICD-10-CM



Code	Description	Code Type
	Intracranial Hemorrhage (inpatient care setting in primary or secondary diagnosis position)	
430	Subarachnoid hemorrhage	ICD-9-CM
431	Intracerebral hemorrhage	ICD-9-CM
432	Other and unspecified intracranial hemorrhage	ICD-9-CM
432.0	Nontraumatic extradural hemorrhage	ICD-9-CM
432.1	Subdural hemorrhage	ICD-9-CM
432.9	Unspecified intracranial hemorrhage	ICD-9-CM
852.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
852.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of	ICD-9-CM
852.02	consciousness Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.04		ICD-9-CM
852.05	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	ICD-9-CM
852.23	Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.24	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.25	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
852.4	Extradural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
852.40 852.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM



Code	Description	Code Type
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24	ICD-9-CM
852.44	hours) loss of consciousness Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more	ICD-9-CM
052.44	than 24 hours) loss of consciousness and return to pre-existing conscious level	
852.45	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
853.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound	ICD-9-CM
853.00	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
853.01	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
853.02	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
853.03	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
853.04	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	ICD-9-CM
853.05	Other and unspecified intracranial hemorrhage following injury. Without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
853.06	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
853.09	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
160.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	ICD-10-CM
160.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	ICD-10-CM
160.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	ICD-10-CM
160.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	ICD-10-CM
160.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	ICD-10-CM
160.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	ICD-10-CM
160.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	ICD-10-CM
160.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	ICD-10-CM
160.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	ICD-10-CM
160.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	ICD-10-CM
160.4	Nontraumatic subarachnoid hemorrhage from basilar artery	ICD-10-CM
160.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	ICD-10-CM
160.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	ICD-10-CM
160.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	ICD-10-CM
160.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	ICD-10-CM
	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	ICD-10-CM
160.7 160.8	Other nontraumatic subarachnoid hemorrhage	ICD-10-CM



Code	Description	Code Type
161.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	ICD-10-CM
l61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	ICD-10-CM
l61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	ICD-10-CM
161.3	Nontraumatic intracerebral hemorrhage in brain stem	ICD-10-CM
161.4	Nontraumatic intracerebral hemorrhage in cerebellum	ICD-10-CM
161.5	Nontraumatic intracerebral hemorrhage, intraventricular	ICD-10-CM
161.6	Nontraumatic intracerebral hemorrhage, multiple localized	ICD-10-CM
161.8	Other nontraumatic intracerebral hemorrhage	ICD-10-CM
161.9	Nontraumatic intracerebral hemorrhage, unspecified	ICD-10-CM
162.00	Nontraumatic subdural hemorrhage, unspecified	ICD-10-CM
162.01	Nontraumatic acute subdural hemorrhage	ICD-10-CM
162.02	Nontraumatic subacute subdural hemorrhage	ICD-10-CM
162.03	Nontraumatic chronic subdural hemorrhage	ICD-10-CM
162.1	Nontraumatic extradural hemorrhage	ICD-10-CM
162.9	Nontraumatic intracranial hemorrhage, unspecified	ICD-10-CM
S06.340A	Traumatic hemorrhage of right cerebrum without loss of consciousness, initial encounter	ICD-10-CM
S06.341A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.342A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial	ICD-10-CM
	encounter	
S06.343A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial	ICD-10-CM
	encounter	
S06.344A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial	ICD-10-CM
	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to	ICD-10-CM
000.040/1	pre-existing conscious level, initial encounter	
S06.346A		ICD-10-CM
500.540/	to pre-existing conscious level with patient surviving, initial encounter	
S06.347A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to	ICD-10-CM
500.5477	brain injury prior to regaining consciousness, initial encounter	
S06.348A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to	ICD-10-CM
500.5 <del>-</del> 0A	other cause prior to regaining consciousness, initial encounter	
S06.349A	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, initial	ICD-10-CM
500.5457	encounter	
506 3504	Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter	ICD-10-CM
	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial	ICD-10-CM
300.332A	-	
S06.353A	encounter Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial	ICD-10-CM
300.555A	-	
	encounter Traumatic homorrhage of left corebrum with loss of consciousness of 6 hours to 34 hours, initial encounter	
	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	
SU6.355A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-	- ICD-10-CIVI
	existing conscious level, initial encounter	
S06.356A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to	ICD-10-CM
	pre-existing conscious level with patient surviving, initial encounter	
SU6.357A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain	ICD-10-CM
	injury prior to regaining consciousness, initial encounter	
S06.358A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other	ICD-10-CM
	cause prior to regaining consciousness, initial encounter	
506.359A	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial	ICD-10-CM



Code	Description	Code Type
S06.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	ICD-10-CM
S06.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
\$06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
506.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	ICD-10-CM
06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
06.365A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CN
06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CN
06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CN
06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CN
06.369A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	ICD-10-CN
06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter	ICD-10-CM
06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CI
06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CI
06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CN
06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CN
06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	ICD-10-CN
06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CI
06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	ICD-10-CM
	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CI
06.5X2A	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CI
06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial	ICD-10-CI
06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CI
06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre- existing conscious level, initial encounter	ICD-10-CI
06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre- existing conscious level with patient surviving, initial encounter	ICD-10-CN
06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	ICD-10-CN
606.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	ICD-10-CN
06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM



Code	Description	Code Type
	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	ICD-10-CM
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial	ICD-10-CM
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial	ICD-10-CM
	encounter	
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-	ICD-10-CM
	existing conscious level, initial encounter	
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to	ICD-10-CM
	pre-existing conscious level with patient surviving, initial encounter	
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain	ICD-10-CM
	injury prior to regaining consciousness, initial encounter	
S06.6X8A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other	ICD-10-CM
	cause prior to regaining consciousness, initial encounter	
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
	Kidney Disease (any care setting)	
40311	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	
40391	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal	ICD-9-CM
	disease	
40412	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney	ICD-9-CM
	disease stage V or end stage renal disease	
40492	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney	ICD-9-CM
505	disease stage V or end stage renal disease	
585	Chronic kidney disease	ICD-9-CM
5851	Chronic kidney disease, Stage I	ICD-9-CM
5852 5853	Chronic kidney disease, Stage II (mild) Chronic kidney disease, Stage III (mederate)	ICD-9-CM
5853 5854	Chronic kidney disease, Stage III (moderate) Chronic kidney disease, Stage IV (severe)	ICD-9-CM
5855	Chronic kidney disease, Stage V	ICD-9-CM ICD-9-CM
5856	End stage renal disease	ICD-9-CM
5859	Chronic kidney disease, unspecified	ICD-9-CM
586	Renal failure, unspecified	ICD-9-CM
V420	Kidney replaced by transplant	ICD-9-CM
V560	Encounter for extracorporeal dialysis	ICD-9-CM
V568	Encounter for other dialysis	ICD-9-CM
V451	Postsurgical renal dialysis status	ICD-9-CM
V4511	Renal dialysis status	ICD-9-CM
V4512	Noncompliance with renal dialysis	ICD-9-CM
112.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM
113.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or	ICD-10-CM
	end stage renal disease	
N18.1	Chronic kidney disease, stage 1	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	ICD-10-CM
N18.6	End stage renal disease	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	ICD-10-CM



Code	Description	Code Type
N19	Unspecified kidney failure	ICD-10-CM
Z48.22	Encounter for aftercare following kidney transplant	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	ICD-10-CM
Z94.0	Kidney transplant status	ICD-10-CM
Z99.2	Dependence on renal dialysis	ICD-10-CM
	Ischemic Stroke (inpatient care setting in primary diagnosis position)	
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	ICD-9-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	ICD-9-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	ICD-9-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM
434.01	Cerebral thrombosis with cerebral infarction	ICD-9-CM
434.11	Cerebral embolism with cerebral infarction	ICD-9-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM
436	Acute, but ill-defined, cerebrovascular disease	ICD-9-CM
63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries	ICD-10-CM
63.139	Cerebral infarction due to embolism of unspecified carotid artery	ICD-10-CM
63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	ICD-10-CM
63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	ICD-10-CM
63.119	Cerebral infarction due to embolism of unspecified vertebral artery	ICD-10-CM
63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries	ICD-10-CM
63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	ICD-10-CM
63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	ICD-10-CM
63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	ICD-10-CM
163.40	Cerebral infarction due to embolism of unspecified cerebral artery	ICD-10-CM
163.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	ICD-10-CM
67.89	Other cerebrovascular disease	ICD-10-CM
63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	ICD-10-CM
63.011	Cerebral infarction due to thrombosis of right vertebral artery	ICD-10-CM
63.012	Cerebral infarction due to thrombosis of left vertebral artery	ICD-10-CM
63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	ICD-10-CM
63.02	Cerebral infarction due to thrombosis of basilar artery	ICD-10-CM
63.031	Cerebral infarction due to thrombosis of right carotid artery	ICD-10-CM
63.032	Cerebral infarction due to thrombosis of left carotid artery	ICD-10-CM
63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries	ICD-10-CM
63.039	Cerebral infarction due to thrombosis of unspecified carotid artery	ICD-10-CM
63.09	Cerebral infarction due to thrombosis of other precerebral artery	ICD-10-CM
63.10	Cerebral infarction due to embolism of unspecified precerebral artery	ICD-10-CM
63.111	Cerebral infarction due to embolism of right vertebral artery	ICD-10-CM
63.112	Cerebral infarction due to embolism of left vertebral artery	ICD-10-CM
63.113	Cerebral infarction due to embolism of bilateral vertebral arteries	ICD-10-CM
63.12	Cerebral infarction due to embolism of basilar artery	ICD-10-CM
63.131	Cerebral infarction due to embolism of right carotid artery	ICD-10-CM
63.132	Cerebral infarction due to embolism of left carotid artery	ICD-10-CM
63.133	Cerebral infarction due to embolism of bilateral carotid arteries	ICD-10-CM
63.19	Cerebral infarction due to embolism of other precerebral artery	ICD-10-CM



CodeDescription163.211Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries163.212Cerebral infarction due to unspecified occlusion or stenosis of liabteral vertebral arteries163.213Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries163.224Cerebral infarction due to unspecified occlusion or stenosis of liabteral carotid arteries163.235Cerebral infarction due to unspecified occlusion or stenosis of the carotid arteries163.236Cerebral infarction due to tunspecified occlusion or stenosis of other precerebral arteries163.331Cerebral infarction due to thrombosis of right middle cerebral artery163.331Cerebral infarction due to thrombosis of right anterior cerebral artery163.332Cerebral infarction due to thrombosis of right anterior cerebral artery163.332Cerebral infarction due to thrombosis of right anterior cerebral artery163.332Cerebral infarction due to thrombosis of right anterior cerebral artery163.333Cerebral infarction due to thrombosis of right posterior cerebral artery163.333Cerebral infarction due to thrombosis of right posterior cerebral artery163.3332Cerebral infarction due to thrombosis of right cerebella artery163.333Cerebral infarction due to thrombosis of right cerebellar artery163.343Cerebral infarction due to thrombosis of right cerebellar artery163.344Cerebral infarction due to thrombosis of right cerebellar artery163.345Cerebral infarction due to thrombosis of right cerebellar artery163.346Cerebral inf	Code Type
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I63.521 Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	ICD-10-CM
163.522 Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	ICD-10-CM
163.523 Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior arteries	ICD-10-CM
I63.529 Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	ICD-10-CM



Code	Description	Code Type
163.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	ICD-10-CM
163.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	ICD-10-CM
163.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior arteries	ICD-10-CM
163.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	ICD-10-CM
163.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	ICD-10-CM
163.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	ICD-10-CM
163.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	ICD-10-CM
163.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	ICD-10-CM
163.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	ICD-10-CM
163.8	Other cerebral infarction	ICD-10-CM
163.9	Cerebral infarction, unspecified	ICD-10-CM



## Appendix G. Specifications Defining Exposure Parameters in this Request

This request used the Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.1.1, to obtain counts of new users of apixaban and warfarin among patients diagnosed with non-valvular atrial fibrillation in the Sentinel Distributed Database. We also examined incidence rates of gastrointestinal hemorrhage, intracranial hemorrhage, and ischemic stroke.

Query Periods: February 1, 2013 to August 21, 2017 February 1, 2013 to September 30, 2015 October 1, 2015 to August 21, 2017 Coverage Requirement: Drug and Medical Coverage Enrollment Requirement: 183 days Enrollment Gap: 45 days Age Groups: 21-64, 65-74, 75-84, 85-99 years Exposure											
Scenario	Incident Exposure	Incidence Criteria	Truncation Criteria	Washout Period (days)	Cohort Definition	Episode Gap (days)	Episode Extension Period (days)	Censor at Death			
1	Apixaban	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Dabigatran, rivaroxaban, edoxaban, warfarin	183	Retain first valid incident exposure episode only	7	7	No			
2	Warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban	183	Retain first valid incident exposure episode only	7	7	No			
3	Apixaban	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Dabigatran, rivaroxaban, edoxaban, warfarin	183	Retain first valid incident exposure episode only	7	7	No			
4	Warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban	183	Retain first valid incident exposure episode only	7	7	No			
5	Apixaban	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Dabigatran, rivaroxaban, edoxaban, warfarin	183	Retain first valid incident exposure episode only	7	7	No			
6	Warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban	183	Retain first valid incident exposure episode only	7	7	No			
7	Apixaban	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Dabigatran, rivaroxaban, edoxaban, warfarin	183	Retain first valid incident exposure episode only	7	7	No			
8	Warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban, warfarin	Apixaban, dabigatran, rivaroxaban, edoxaban	183	Retain first valid incident exposure episode only	7	7	No			



International Classification of Diseases, Ninth and Tenth Revisions, Clinical Modification (ICD-9-CM and ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes are provided by Optum360.

National Drug Codes (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."



Appendi	x G.1. Specif	ications	Defining	Inclusion (	Criteria, Exclusion Criteria, Event O	utcome, and	Baseline (	Characteri	stic Parameters	in this R	equest			
				•	tive Analysis (CIDA) tool, version 5.1.1,			•		0.		ignosed wi	th non-valvular at	trial
fibrillation	i in the Sentin	el Distrib	uted Data	base. We als	o examined incidence rates of gastroint		-		-	emic stro	ke.			
					Query Periods:	February 1, 20	-							
						October 1, 20	•	,						
					Courses Doguiroment		0							
					Coverage Requirement: Enrollment Requirement:	-		age						
					Enrollment Gap:	-								
					·		75 01 05	00 voarc						
			·		<b>C</b> 1	21-64, 65-74,	/5-84, 85-	99 years		<b>.</b> .				
		Inclusion	Criteria		Exclusion	n Criteria				Outcom	ie		Baseline Chara	acteristics
	Dro Evicting	Coro	Include/	Lookback Period			Include/	Lookback		Coro	Machaut	Blackout Period		Evaluation Window
Scenario	Pre-Existing Condition		Exclude	(days)	Pre-Existing Condition	Care Setting	•	Period (days)	Outcome	Care Setting	Washout (days)	(days)	Characteristics	(days)
					5			. ,,		0	,	. , ,		. , ,
	Atrial			102.0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary	Any, except		402.0	Gastrointestinal	100	2	4		102.0
1	fibrillation	Any	Include	-183, 0	embolism, joint replacement, mitral stenosis, valve replacement or valve repair	AV/OA <sup>1</sup> for dialysis	Exclude	-183, 0	hemorrhage	IPP	0	1	See Appendix F	-183, 0
2	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Gastrointestinal hemorrhage	IPP	0	1	See Appendix F	-183, 0
3	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Intracranial hemorrhage	IPP, IPS	0	1	See Appendix F	-183, 0
4	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Intracranial hemorrhage	IPP, IPS	0	1	See Appendix F	-183, 0



	Inclusion Criteria				Exclusion		Outcome				<b>Baseline Characteristics</b>			
Scenario	Pre-Existing Condition		Include/ Exclude	Lookback Period (days)	Pre-Existing Condition	Care Setting	Include/	Lookback Period (days)	Outcome	Care Setting	Washout (days)	Blackout Period (days)	Characteristics	Evaluation Window (days)
5	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Intracranial hemorrhage	IPP	0	1	See Appendix F	-183, 0
6	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Intracranial hemorrhage	IPP	0	1	See Appendix F	-183, 0
7	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Stroke	IPP	0	1	See Appendix F	-183, 0
8	Atrial fibrillation	Any	Include	-183, 0	Dialysis, kidney replacement, deep vein thrombosis, pulmonary embolism, joint replacement, mitral stenosis, valve replacement or valve repair	Any, except AV/OA for dialysis	Exclude	-183, 0	Stroke	IPP	0	1	See Appendix F	-183, 0

National Drug Codes (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."