

Disclaimer

The following report(s) provides findings from an FDA-initiated query using its Mini-Sentinel pilot. While Mini-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 Mini-Sentinel, and seeking to better understand the capabilities of the Mini-Sentinel pilot.

Data obtained through Mini-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 the Mini-Sentinel pilot in the public domain as soon as possible. Any public health actions taken by FDA regarding products involved in Mini-Sentinel queries will continue to be communicated through existing channels.

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

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

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Overview

Request Description

FDA has requested execution of Modular Program #3 (MP3) to investigate exposure of two anticoagulant medications (dabigatran and warfarin) among members with a pre-existing condition of atrial fibrillation and among members with various pre-existing exclusions. This involved one run of MP3. The time window for the request was October 19, 2010 to December 31, 2012. The package was distributed to 18 Data Partners on November 5, 2013.

Results provide counts of new anticoagulant users, dispensings, total days supplied, eligible members, and member-years for patients. Forty scenarios were examined in total. Please see the Specifications tab for more details on each scenario.

Request ID

msy5_mpr10_v1, Report 1 of 1

Specifications

Program parameter inputs and scenarios

Glossary

List of Terms found in this Report and their Definitions

Table 1a

Table displaying the Number of New Dabigatran Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria between October 19, 2010 and December 31, 2012

Table 1b

Table displaying the Number of New Warfarin Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria between October 19, 2010 and December 31, 2012

Table 2a

Table displaying the Number of New Dabigatran Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria and Age Group between October 19, 2010 and December 31, 2012

Table 2b

Table displaying the Number of New Warfarin Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria and Age Group between October 19, 2010 and December 31, 2012

Table 3a

Table displaying the Number of New Dabigatran Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria and Sex between October 19, 2010 and December 31, 2012

Table 3b

Table displaying the Number of New Warfarin Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria and Sex between October 19, 2010 and December 31, 2012

Table 4a

Table displaying the Number of New Dabigatran Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria and Year between October 19, 2010 and December 31, 2012

Table 4b

Table displaying the Number of New Warfarin Users, New Episodes, Dispensings, Total Days Supplied, Years at Risk, Eligible Members, Member-Years, New Users per 1,000 Eligible Members, Days Supplied per User, Dispensings per User, and Days Supplied per Dispensing by Pre-Existing Condition Criteria and Year between October 19, 2010 and December 31, 2012

Table 5

Table displaying Pre-existing Conditions and Prescription Drug Dispensings among Incident Dabigatran and Warfarin Users with Atrial Fibrillation.

Appendix A

Table of Procedure and Diagnosis Codes for Pre-existing conditions in this request.

Notes:

Please contact the Mini-Sentinel Operations Center (MSOC_Requests@harvardpilgrim.org) for questions and to provide comments/suggestions for future enhancements to this document.

Modular Program Specifications for Query MSY5_MPR10_v1

Modular Program #3 will be used to new dabigatran and warfarin episodes among patients with differing groups of pre-existing conditions. In total, 40 different scenarios were examined in this request

Coverage Requirement	Drug and Medical Coverage
Query Period	October 19, 2010 to December 31, 2012.
Enrollment Gap	45 Days
Enrollment Days	183
Age Stratifications	0-40, 41-54, 55-64, 65-74, 75-84, and 85+

Scenario	Drug/Exposure							Pre-Existing Condition					Event/Outcome	
	Incident exposure	Incident w/ respect to:	Ep. Gap	Ep. Ext. Period	Min. Ep. Duration	Min. Days Supplied	Washout (days)	Incidence Type*	Pre-Existing Condition	Include/Exclude	Lookback Start	Lookback End	Care Setting PDX	Event/ Outcome
1	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Atrial Fibrillation	Include	-183	-1	All	Dummy
2	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Atrial Fibrillation	Include	-183	-1	All	Dummy
3	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Chronic Liver Disease	Include	-183	-1	All	Dummy
4	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Chronic Liver Disease	Include	-183	-1	All	Dummy
5	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Hypercholesterolemia	Include	-183	-1	All	Dummy
6	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Hypercholesterolemia	Include	-183	-1	All	Dummy
7	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Malignancy	Include	-183	-1	All	Dummy
8	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Malignancy	Include	-183	-1	All	Dummy
9	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Coronary Revascularization	Include	-183	-1	All for AFIB, All for CR except HCPCS/Procedures: IP/ED	Dummy
10	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Coronary Revascularization	Include	-183	-1	All for AFIB, All for CR except HCPCS/Procedures: IP/ED	Dummy
11	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Other Ischemic Heart Disease	Include	-183	-1	All	Dummy

Scenario	Drug/Exposure							Pre-Existing Condition					Event/Outcome	
	Incident exposure	Incident w/ respect to:	Ep. Gap	Ep. Ext. Period	Min. Ep. Duration	Min. Days Supplied	Washout (days)	Incidence Type*	Pre-Existing Condition	Include/Exclude	Lookback Start	Lookback End	Care Setting PDX	Event/ Outcome
12	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Other Ischemic Heart Disease	Include	-183	-1	All	Dummy
13	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Cerebral Revascularization	Include	-183	-1	All	Dummy
14	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Cerebral Revascularization	Include	-183	-1	All	Dummy
15	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Transient Ischemic Attack	Include	-183	-1	All	Dummy
16	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Transient Ischemic Attack	Include	-183	-1	All	Dummy
17	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Other Cerebrovascular Disease	Include	-183	-1	All	Dummy
18	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Other Cerebrovascular Disease	Include	-183	-1	All	Dummy
19	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Urinary Incontinence	Include	-183	-1	All	Dummy
20	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Urinary Incontinence	Include	-183	-1	All	Dummy
21	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Hospitalized Pneumonia	Include	-183	-1	All for AFIB, IP* for HP	Dummy
22	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Hospitalized Pneumonia	Include	-183	-1	All for AFIB, IP* for HP	Dummy
23	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Cardioversion	Include	-183	-1	All	Dummy
24	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Cardioversion	Include	-183	-1	All	Dummy
25	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Cardioablation	Include	-183	-1	All	Dummy
26	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Cardioablation	Include	-183	-1	All	Dummy
27	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Estrogen Replacement	Include	-183	-1	All	Dummy
28	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Estrogen Replacement	Include	-183	-1	All	Dummy

Scenario	Drug/Exposure								Pre-Existing Condition				Event/Outcome	
	Incident exposure	Incident w/ respect to:	Ep. Gap	Ep. Ext. Period	Min. Ep. Duration	Min. Days Supplied	Washout (days)	Incidence Type*	Pre-Existing Condition	Include/Exclude	Lookback Start	Lookback End	Care Setting PDX	Event/ Outcome
29	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude H2 Antagonists	Include	-183	-1	All	Dummy
30	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude H2 Antagonists	Include	-183	-1	All	Dummy
31	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Nitrates	Include	-183	-1	All	Dummy
32	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Nitrates	Include	-183	-1	All	Dummy
33	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Statins	Include	-183	-1	All	Dummy
34	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Statins	Include	-183	-1	All	Dummy
35	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Fibrates	Include	-183	-1	All	Dummy
36	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Fibrates	Include	-183	-1	All	Dummy
37	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Antifungals	Include	-183	-1	All	Dummy
38	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Antifungals	Include	-183	-1	All	Dummy
39	Dabigatran	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Verapamil	Include	-183	-1	All	Dummy
40	Warfarin	Dabigatran/Warfarin	10	10	1	1	183	SING	Afib Exclude Verapamil	Include	-183	-1	All	Dummy

NDC codes checked against First Data Bank's "National Drug Data File (NDDF®) Plus"
 ICD-9-CM diagnosis and procedure codes checked against "Ingenix 2012 ICD-9-CM Data File" provided by OptumInsight
 HCPCS codes checked against "Optum 2012 HCPCS Level II Data File" provided by OptumInsight
 CPT codes checked against "Optum 2012 Current Procedure Codes & Relative Values Data File" provided by OptumInsight

*Single incidence type for the exposure will only consider the first incident episode for each user during the query period that satisfies the Washout Period criteria (183 or 365 days). There can be at most
 **Mult washout type for the event will only consider the first event for each episode that satisfies the Washout Period criteria of 183 days. There can be at most one event per episode and consequently,

Glossary of Terms in Modular Program 3*

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
Days at Risk - number of days supplied plus any episode gaps and exposure extension periods.

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 Days - irrespective of what query incidence type (WASHTYP) is specified, this is an optional parameter to further restrict the number of days of continuous enrollment prior to start of new incident treatment episode to reach a certain minimum. This parameter is used to ensure that appropriate enrollment requirements are met. Since at least washout period days of enrollment must be found prior to index date this minimum enrollment days requirement can only be binding

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

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a

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

Member-Days - sum of all days of enrollment with medical and drug coverage** in the query period preceded by an

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

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered

New Episodes - new treatment episodes; length of episode is determined by days supplied in one dispensing (or consecutive

New Users - number of members with incident exposure during the query period. Member must have no evidence of exposure (s) of interest (defined by incidence criteria) in the prior washout period. A user may only be counted once in a

Principal Diagnosis - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital.

YES will only consider diagnoses flagged as Principal

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

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

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.

Incidence Type (drug/exposure)- *Minimum incidence type* will consider the first treatment episode in the query period as long as it is the first treatment episode in the user's entire available history. *Single* and *Multiple incidence types* will use the washout period to establish incidence, however *Single* will only consider the first treatment episode whereas *Multiple* will

Incidence Type (event/outcome)- *Minimum incidence type* considers the first event in a valid episode as long as it is the first event in the user's entire available history. *Multiple incidence type* uses the washout period to establish incidence and considers all qualifying incident treatment episodes. The program will only consider one event per episode, but the *Multiple*

*all terms may not be used in this report

**incident treatment episodes must be incident to both the exposure and the event

Table 1a. Summary of Incident Dabigatran Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation	29,182	29,182	109,681	4,018,449	11,511.9	777,293	484,436.9	37.54	137.70	3.76	36.64
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease	28,712	28,712	107,929	3,958,355	11,338.8	768,800	477,266.9	37.35	137.86	3.76	36.68
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia	11,726	11,726	42,280	1,515,980	4,362.6	618,075	412,668.9	18.97	129.28	3.61	35.86
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy	24,606	24,606	92,666	3,375,187	9,676.2	705,271	434,287.4	34.89	137.17	3.77	36.42
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization	26,286	26,286	99,359	3,631,925	10,403.5	740,920	462,746.0	35.48	138.17	3.78	36.55
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease	29,147	29,147	109,532	4,013,699	11,498.3	775,956	483,282.0	37.56	137.71	3.76	36.64
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization	29,089	29,089	109,243	4,002,879	11,467.8	776,093	483,169.1	37.48	137.61	3.76	36.64
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA	27,613	27,613	102,887	3,771,235	10,812.5	763,967	470,843.7	36.14	136.57	3.73	36.65
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease	26,939	26,939	100,590	3,686,513	10,570.6	746,190	458,660.9	36.10	136.85	3.73	36.65
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence	28,608	28,608	107,518	3,936,012	11,278.3	767,331	472,757.4	37.28	137.58	3.76	36.61
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia	27,705	27,705	104,423	3,835,169	10,986.2	741,169	458,769.1	37.38	138.43	3.77	36.73
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion	25,244	25,244	96,176	3,547,343	10,146.9	764,185	472,110.0	33.03	140.52	3.81	36.88
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation	27,769	27,769	106,100	3,898,065	11,154.0	771,841	477,619.2	35.98	140.37	3.82	36.74
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement	28,630	28,630	107,447	3,938,610	11,283.2	768,211	478,396.5	37.27	137.57	3.75	36.66
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists	28,379	28,379	106,654	3,907,259	11,193.1	759,009	467,739.0	37.39	137.68	3.76	36.63
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates	27,468	27,468	103,245	3,779,349	10,832.3	748,235	460,631.3	36.71	137.59	3.76	36.61
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins	15,909	15,909	56,100	2,001,887	5,779.3	565,444	347,466.3	28.14	125.83	3.53	35.68
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates	27,775	27,775	103,950	3,804,840	10,905.8	757,695	471,438.1	36.66	136.99	3.74	36.60
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals	28,720	28,720	108,094	3,962,619	11,351.2	771,303	477,493.9	37.24	137.97	3.76	36.66
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil	28,500	28,500	107,181	3,922,932	11,239.9	767,128	476,873.2	37.15	137.65	3.76	36.60

Table 1b. Summary of Incident Warfarin Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings/ User	Days Supplied/ Dispensing
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation	106,866	106,866	351,434	14,229,319	40,067.7	777,293	479,732.8	137.48	133.15	3.29	40.49
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease	104,676	104,676	343,800	13,949,805	39,277.8	768,800	472,735.5	136.16	133.27	3.28	40.58
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia	41,905	41,905	137,645	5,369,139	15,200.1	618,070	411,041.3	67.80	128.13	3.28	39.01
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy	87,458	87,458	288,491	11,666,184	32,838.2	705,259	430,788.8	124.01	133.39	3.30	40.44
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization	90,715	90,715	299,480	12,117,580	34,121.3	740,911	459,029.9	122.44	133.58	3.30	40.46
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease	106,610	106,610	350,639	14,203,346	39,993.8	775,955	478,603.8	137.39	133.23	3.29	40.51
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization	106,355	106,355	349,640	14,159,498	39,870.8	776,092	478,505.4	137.04	133.13	3.29	40.50
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA	100,630	100,630	326,913	13,316,244	37,515.0	763,965	466,486.9	131.72	132.33	3.25	40.73
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease	93,976	93,976	300,966	12,402,291	34,970.5	746,179	454,735.3	125.94	131.97	3.20	41.21
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence	103,151	103,151	338,350	13,735,847	38,687.7	767,328	468,378.5	134.43	133.16	3.28	40.60
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia	96,200	96,200	311,471	12,837,864	36,154.0	741,157	454,794.4	129.80	133.45	3.24	41.22
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion	99,868	99,868	327,753	13,342,271	37,552.4	764,176	467,941.4	130.69	133.60	3.28	40.71
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation	104,656	104,656	344,840	13,990,079	39,381.7	771,832	473,125.6	135.59	133.68	3.29	40.57
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement	105,233	105,233	346,009	14,010,379	39,451.2	768,210	473,771.8	136.98	133.14	3.29	40.49
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists	102,026	102,026	335,427	13,559,948	38,198.0	759,006	463,414.8	134.42	132.91	3.29	40.43
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates	98,024	98,024	322,960	13,061,781	36,781.4	748,227	456,571.2	131.01	133.25	3.29	40.44
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins	57,011	57,011	187,670	7,342,806	20,783.6	565,431	345,223.2	100.83	128.80	3.29	39.13
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates	102,177	102,177	336,454	13,595,592	38,285.2	757,692	467,000.2	134.85	133.06	3.29	40.41
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals	105,090	105,090	345,531	14,014,934	39,462.3	771,301	472,961.3	136.25	133.36	3.29	40.56
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil	104,504	104,504	343,424	13,897,545	39,136.5	767,128	472,307.2	136.23	132.99	3.29	40.47

Table 2a. Summary of Incident Dabigatran Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria and Age Group

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation											
00 to 40 Years	562	562	1,254	39,065	120.4	29,145	13,198.9	19.28	69.51	2.23	31.15
41 to 54 Years	3,778	3,778	11,788	386,348	1,140.3	87,194	44,532.9	43.33	102.26	3.12	32.77
55 to 64 Years	8,140	8,140	31,759	1,113,049	3,186.0	154,939	84,110.1	52.54	136.74	3.90	35.05
65 to 74 Years	8,044	8,044	30,778	1,169,224	3,330.2	198,620	114,707.8	40.50	145.35	3.83	37.99
75 to 84 Years	6,492	6,492	25,800	1,006,645	2,865.1	214,299	133,209.6	30.29	155.06	3.97	39.02
85+ Years	2,166	2,166	8,302	304,118	869.9	141,422	94,677.5	15.32	140.41	3.83	36.63
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease											
00 to 40 Years	554	554	1,237	38,495	118.6	28,897	13,039.9	19.17	69.49	2.23	31.12
41 to 54 Years	3,690	3,690	11,466	376,148	1,110.3	85,948	43,708.4	42.93	101.94	3.11	32.81
55 to 64 Years	7,972	7,972	31,125	1,090,302	3,121.8	152,463	82,373.3	52.29	136.77	3.90	35.03
65 to 74 Years	7,908	7,908	30,251	1,151,384	3,278.4	195,900	112,594.6	40.37	145.60	3.83	38.06
75 to 84 Years	6,430	6,430	25,593	999,378	2,843.9	212,473	131,500.7	30.26	155.42	3.98	39.05
85+ Years	2,158	2,158	8,257	302,648	865.8	140,825	94,050.1	15.32	140.24	3.83	36.65
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia											
00 to 40 Years	447	447	1,002	31,250	96.2	26,734	11,966.2	16.72	69.91	2.24	31.19
41 to 54 Years	2,099	2,099	6,150	198,754	590.1	73,826	39,496.6	28.43	94.69	2.93	32.32
55 to 64 Years	3,396	3,396	12,850	440,471	1,268.9	124,080	72,957.7	27.37	129.70	3.78	34.28
65 to 74 Years	2,625	2,625	9,923	375,061	1,068.8	151,120	96,163.9	17.37	142.88	3.78	37.80
75 to 84 Years	2,230	2,230	8,880	347,482	986.4	164,872	111,254.8	13.53	155.82	3.98	39.13
85+ Years	929	929	3,475	122,962	352.2	114,701	80,829.7	8.10	132.36	3.74	35.38
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy											
00 to 40 Years	538	538	1,203	37,475	115.6	28,378	12,680.0	18.96	69.66	2.24	31.15
41 to 54 Years	3,510	3,510	10,935	357,880	1,055.9	83,070	41,987.1	42.25	101.96	3.12	32.73
55 to 64 Years	7,134	7,134	28,002	979,171	2,803.1	143,125	76,892.7	49.84	137.25	3.93	34.97
65 to 74 Years	6,618	6,618	25,471	968,154	2,757.9	177,495	101,883.6	37.29	146.29	3.85	38.01
75 to 84 Years	5,093	5,093	20,363	789,494	2,247.5	188,860	117,004.2	26.97	155.02	4.00	38.77
85+ Years	1,713	1,713	6,692	243,013	696.3	126,734	83,839.7	13.52	141.86	3.91	36.31

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization											
00 to 40 Years	554	554	1,228	38,285	118.0	28,980	13,120.0	19.12	69.11	2.22	31.18
41 to 54 Years	3,649	3,649	11,363	371,854	1,098.7	84,866	43,444.4	43.00	101.91	3.11	32.72
55 to 64 Years	7,545	7,545	29,578	1,033,416	2,958.4	148,016	80,766.3	50.97	136.97	3.92	34.94
65 to 74 Years	6,985	6,985	27,166	1,033,532	2,940.5	186,849	108,770.8	37.38	147.96	3.89	38.05
75 to 84 Years	5,613	5,613	22,476	878,019	2,496.4	201,888	125,743.8	27.80	156.43	4.00	39.06
85+ Years	1,940	1,940	7,548	276,819	791.7	135,977	90,900.7	14.27	142.69	3.89	36.67
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease											
00 to 40 Years	562	562	1,254	39,065	120.4	29,117	13,180.1	19.30	69.51	2.23	31.15
41 to 54 Years	3,776	3,776	11,785	386,258	1,140.1	87,099	44,473.4	43.35	102.29	3.12	32.78
55 to 64 Years	8,132	8,132	31,708	1,111,519	3,181.6	154,758	83,931.8	52.55	136.68	3.90	35.05
65 to 74 Years	8,033	8,033	30,734	1,167,624	3,325.6	198,261	114,415.7	40.52	145.35	3.83	37.99
75 to 84 Years	6,486	6,486	25,775	1,005,895	2,863.0	213,871	132,825.2	30.33	155.09	3.97	39.03
85+ Years	2,158	2,158	8,276	303,338	867.6	141,179	94,455.8	15.29	140.56	3.84	36.65
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization											
00 to 40 Years	562	562	1,254	39,065	120.4	29,148	13,197.6	19.28	69.51	2.23	31.15
41 to 54 Years	3,775	3,775	11,760	385,328	1,137.5	87,163	44,512.4	43.31	102.07	3.12	32.77
55 to 64 Years	8,132	8,132	31,720	1,111,699	3,182.3	154,814	83,967.3	52.53	136.71	3.90	35.05
65 to 74 Years	8,006	8,006	30,642	1,163,974	3,315.5	198,204	114,289.6	40.39	145.39	3.83	37.99
75 to 84 Years	6,456	6,456	25,599	999,835	2,845.5	213,798	132,684.9	30.20	154.87	3.97	39.06
85+ Years	2,158	2,158	8,268	302,978	866.6	141,281	94,517.1	15.27	140.40	3.83	36.64
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA											
00 to 40 Years	551	551	1,216	37,925	117.0	28,972	13,087.9	19.02	68.83	2.21	31.19
41 to 54 Years	3,684	3,684	11,491	376,358	1,111.2	86,398	44,012.8	42.64	102.16	3.12	32.75
55 to 64 Years	7,810	7,810	30,148	1,057,680	3,031.2	153,123	82,806.4	51.00	135.43	3.86	35.08
65 to 74 Years	7,641	7,641	29,099	1,103,911	3,145.6	195,479	112,014.5	39.09	144.47	3.81	37.94
75 to 84 Years	5,986	5,986	23,585	925,352	2,635.3	209,491	128,495.9	28.57	154.59	3.94	39.23
85+ Years	1,941	1,941	7,348	270,009	772.1	137,632	90,426.1	14.10	139.11	3.79	36.75

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease											
00 to 40 Years	549	549	1,225	38,195	117.6	28,919	13,064.6	18.98	69.57	2.23	31.18
41 to 54 Years	3,688	3,688	11,447	375,000	1,107.7	85,938	43,773.1	42.91	101.68	3.10	32.76
55 to 64 Years	7,780	7,780	30,122	1,055,202	3,024.6	151,557	81,893.2	51.33	135.63	3.87	35.03
65 to 74 Years	7,461	7,461	28,620	1,087,747	3,096.1	191,521	109,687.9	38.96	145.79	3.84	38.01
75 to 84 Years	5,675	5,675	22,286	877,509	2,499.2	202,562	124,039.5	28.02	154.63	3.93	39.37
85+ Years	1,786	1,786	6,890	252,860	725.5	131,373	86,202.6	13.59	141.58	3.86	36.70
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence											
00 to 40 Years	561	561	1,253	39,035	120.3	29,089	13,145.3	19.29	69.58	2.23	31.15
41 to 54 Years	3,758	3,758	11,761	385,553	1,137.7	86,933	44,257.1	43.23	102.60	3.13	32.78
55 to 64 Years	8,071	8,071	31,456	1,103,045	3,157.4	154,157	83,294.8	52.36	136.67	3.90	35.07
65 to 74 Years	7,870	7,870	30,186	1,145,354	3,263.6	196,518	112,600.0	40.05	145.53	3.84	37.94
75 to 84 Years	6,276	6,276	24,927	972,091	2,767.0	210,300	128,999.1	29.84	154.89	3.97	39.00
85+ Years	2,072	2,072	7,935	290,934	832.3	137,570	90,461.1	15.06	140.41	3.83	36.66
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia											
00 to 40 Years	551	551	1,235	38,495	118.5	28,698	12,991.9	19.20	69.86	2.24	31.17
41 to 54 Years	3,666	3,666	11,421	374,084	1,105.6	85,249	43,591.9	43.00	102.04	3.12	32.75
55 to 64 Years	7,822	7,822	30,500	1,072,682	3,068.4	150,020	81,500.0	52.14	137.14	3.90	35.17
65 to 74 Years	7,650	7,650	29,416	1,118,219	3,184.4	189,764	109,205.2	40.31	146.17	3.85	38.01
75 to 84 Years	6,060	6,060	24,280	952,599	2,711.4	202,132	124,668.0	29.98	157.19	4.01	39.23
85+ Years	1,956	1,956	7,571	279,090	797.9	131,347	86,812.0	14.89	142.68	3.87	36.86
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion											
00 to 40 Years	408	408	968	29,970	91.7	28,471	12,707.9	14.33	73.46	2.37	30.96
41 to 54 Years	3,026	3,026	9,746	321,826	946.9	85,073	42,998.2	35.57	106.35	3.22	33.02
55 to 64 Years	6,861	6,861	27,007	952,060	2,722.5	151,281	81,291.4	45.35	138.76	3.94	35.25
65 to 74 Years	6,996	6,996	26,958	1,031,556	2,935.5	194,838	111,275.2	35.91	147.45	3.85	38.27
75 to 84 Years	5,926	5,926	23,731	927,600	2,638.2	211,234	130,113.6	28.05	156.53	4.00	39.09
85+ Years	2,027	2,027	7,766	284,331	812.1	140,399	93,723.7	14.44	140.27	3.83	36.61

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation											
00 to 40 Years	479	479	1,101	34,465	105.8	28,596	12,713.9	16.75	71.95	2.30	31.30
41 to 54 Years	3,370	3,370	10,870	357,818	1,052.7	86,158	43,405.1	39.11	106.18	3.23	32.92
55 to 64 Years	7,641	7,641	30,516	1,071,190	3,062.6	153,188	82,243.5	49.88	140.19	3.99	35.10
65 to 74 Years	7,745	7,745	29,942	1,139,681	3,243.9	197,131	112,842.4	39.29	147.15	3.87	38.06
75 to 84 Years	6,390	6,390	25,460	993,964	2,828.5	213,346	132,022.6	29.95	155.55	3.98	39.04
85+ Years	2,144	2,144	8,211	300,947	860.5	141,200	94,391.6	15.18	140.37	3.83	36.65
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement											
00 to 40 Years	561	561	1,250	38,945	120.0	29,051	13,139.2	19.31	69.42	2.23	31.16
41 to 54 Years	3,725	3,725	11,566	379,309	1,119.9	85,877	43,757.6	43.38	101.83	3.10	32.80
55 to 64 Years	7,980	7,980	31,175	1,092,317	3,125.7	151,762	82,229.9	52.58	136.88	3.91	35.04
65 to 74 Years	7,862	7,862	30,077	1,144,321	3,258.6	196,047	113,087.4	40.10	145.55	3.83	38.05
75 to 84 Years	6,366	6,366	25,204	984,955	2,804.3	212,531	132,044.1	29.95	154.72	3.96	39.08
85+ Years	2,136	2,136	8,175	298,763	854.7	140,698	94,138.3	15.18	139.87	3.83	36.55
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists											
00 to 40 Years	558	558	1,248	38,885	119.8	28,924	13,002.9	19.29	69.69	2.24	31.16
41 to 54 Years	3,737	3,737	11,629	381,159	1,125.0	86,283	43,774.7	43.31	102.00	3.11	32.78
55 to 64 Years	8,016	8,016	31,324	1,097,510	3,141.3	152,445	82,150.8	52.58	136.91	3.91	35.04
65 to 74 Years	7,757	7,757	29,672	1,127,817	3,211.9	193,601	110,720.6	40.07	145.39	3.83	38.01
75 to 84 Years	6,242	6,242	24,844	969,984	2,760.4	207,856	127,881.0	30.03	155.40	3.98	39.04
85+ Years	2,069	2,069	7,937	291,904	834.7	136,617	90,209.0	15.14	141.08	3.84	36.78
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates											
00 to 40 Years	558	558	1,247	38,855	119.7	29,061	13,126.0	19.20	69.63	2.23	31.16
41 to 54 Years	3,684	3,684	11,382	372,209	1,100.2	85,949	43,563.4	42.86	101.03	3.09	32.70
55 to 64 Years	7,795	7,795	30,464	1,067,306	3,055.2	151,003	81,274.2	51.62	136.92	3.91	35.03
65 to 74 Years	7,549	7,549	29,080	1,103,324	3,143.3	190,999	109,266.4	39.52	146.15	3.85	37.94
75 to 84 Years	5,935	5,935	23,697	925,979	2,636.8	204,089	125,672.7	29.08	156.02	3.99	39.08
85+ Years	1,947	1,947	7,375	271,676	777.0	133,089	87,728.7	14.63	139.54	3.79	36.84

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins											
00 to 40 Years	506	506	1,125	35,060	108.0	27,934	12,432.4	18.11	69.29	2.22	31.16
41 to 54 Years	2,710	2,710	8,149	262,920	781.5	71,305	35,119.0	38.01	97.02	3.01	32.26
55 to 64 Years	4,618	4,618	16,972	582,976	1,682.5	108,735	57,282.4	42.47	126.24	3.68	34.35
65 to 74 Years	3,819	3,819	13,762	515,363	1,474.3	135,054	78,332.3	28.28	134.95	3.60	37.45
75 to 84 Years	3,096	3,096	11,777	453,113	1,293.5	149,410	94,193.5	20.72	146.35	3.80	38.47
85+ Years	1,160	1,160	4,315	152,455	439.4	106,147	70,106.7	10.93	131.43	3.72	35.33
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates											
00 to 40 Years	553	553	1,218	38,008	117.4	28,912	13,051.8	19.13	68.73	2.20	31.21
41 to 54 Years	3,611	3,611	11,216	367,568	1,086.1	84,824	43,111.0	42.57	101.79	3.11	32.77
55 to 64 Years	7,692	7,692	29,794	1,038,801	2,976.7	149,421	80,786.7	51.48	135.05	3.87	34.87
65 to 74 Years	7,568	7,568	28,778	1,093,410	3,115.1	192,150	110,766.8	39.39	144.48	3.80	37.99
75 to 84 Years	6,233	6,233	24,859	970,199	2,761.7	209,516	130,151.6	29.75	155.66	3.99	39.03
85+ Years	2,118	2,118	8,085	296,854	849.0	139,850	93,570.2	15.14	140.16	3.82	36.72
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals											
00 to 40 Years	551	551	1,214	37,890	116.7	28,801	12,924.4	19.13	68.77	2.20	31.21
41 to 54 Years	3,724	3,724	11,663	382,478	1,128.5	86,388	43,828.2	43.11	102.71	3.13	32.79
55 to 64 Years	8,015	8,015	31,260	1,095,755	3,136.5	153,635	82,814.2	52.17	136.71	3.90	35.05
65 to 74 Years	7,913	7,913	30,372	1,154,328	3,287.7	196,978	113,006.3	40.17	145.88	3.84	38.01
75 to 84 Years	6,387	6,387	25,419	992,850	2,825.7	212,775	131,437.3	30.02	155.45	3.98	39.06
85+ Years	2,130	2,130	8,166	299,318	856.1	140,544	93,483.6	15.16	140.52	3.83	36.65
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil											
00 to 40 Years	556	556	1,248	38,825	119.6	28,947	13,038.8	19.21	69.83	2.24	31.11
41 to 54 Years	3,708	3,708	11,591	379,688	1,120.6	86,133	43,754.2	43.05	102.40	3.13	32.76
55 to 64 Years	7,944	7,944	30,829	1,077,748	3,086.9	152,620	82,491.9	52.05	135.67	3.88	34.96
65 to 74 Years	7,831	7,831	30,067	1,141,737	3,252.2	195,722	112,767.0	40.01	145.80	3.84	37.97
75 to 84 Years	6,347	6,347	25,384	989,093	2,814.6	211,448	131,256.1	30.02	155.84	4.00	38.97
85+ Years	2,114	2,114	8,062	295,841	846.0	139,899	93,565.3	15.11	139.94	3.81	36.70

Table 2b. Summary of Incident Warfarin Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria and Age Group

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation											
00 to 40 Years	1,066	1,066	3,435	115,820	332.8	29,145	13,179.4	36.58	108.65	3.22	33.72
41 to 54 Years	7,489	7,489	24,088	825,387	2,367.0	87,179	44,328.6	85.90	110.21	3.22	34.27
55 to 64 Years	19,019	19,019	60,388	2,258,102	6,395.8	154,784	83,332.5	122.87	118.73	3.18	37.39
65 to 74 Years	30,320	30,320	96,650	4,185,288	11,752.2	198,351	113,465.6	152.86	138.04	3.19	43.30
75 to 84 Years	34,814	34,814	115,641	4,921,935	13,822.9	213,825	131,572.3	162.82	141.38	3.32	42.56
85+ Years	14,158	14,158	51,232	1,922,787	5,397.0	140,937	93,854.4	100.46	135.81	3.62	37.53
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease											
00 to 40 Years	1,028	1,028	3,303	111,644	321.1	28,897	13,024.8	35.57	108.60	3.21	33.80
41 to 54 Years	7,221	7,221	23,235	797,013	2,285.9	85,930	43,522.8	84.03	110.37	3.22	34.30
55 to 64 Years	18,437	18,437	58,277	2,186,323	6,191.4	152,319	81,642.0	121.04	118.58	3.16	37.52
65 to 74 Years	29,605	29,605	94,358	4,096,873	11,503.5	195,648	111,389.5	151.32	138.38	3.19	43.42
75 to 84 Years	34,322	34,322	113,745	4,849,250	13,618.2	212,010	129,913.8	161.89	141.29	3.31	42.63
85+ Years	14,063	14,063	50,882	1,908,702	5,357.8	140,353	93,242.6	100.20	135.73	3.62	37.51
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia											
00 to 40 Years	840	840	2,632	87,863	254.3	26,734	11,947.5	31.42	104.60	3.13	33.38
41 to 54 Years	4,228	4,228	13,208	448,966	1,291.5	73,806	39,402.5	57.29	106.19	3.12	33.99
55 to 64 Years	8,075	8,075	25,624	937,089	2,663.1	124,010	72,652.6	65.12	116.05	3.17	36.57
65 to 74 Years	10,365	10,365	32,927	1,384,432	3,907.3	151,044	95,771.7	68.62	133.57	3.18	42.05
75 to 84 Years	12,088	12,088	40,301	1,678,499	4,732.0	164,748	110,742.2	73.37	138.86	3.33	41.65
85+ Years	6,309	6,309	22,953	832,290	2,352.0	114,537	80,524.9	55.08	131.92	3.64	36.26
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy											
00 to 40 Years	1,006	1,006	3,261	110,258	316.5	28,378	12,661.5	35.45	109.60	3.24	33.81
41 to 54 Years	6,852	6,852	22,283	764,964	2,193.0	83,059	41,798.7	82.50	111.64	3.25	34.33
55 to 64 Years	16,593	16,593	52,624	1,975,965	5,592.1	142,992	76,272.2	116.04	119.08	3.17	37.55
65 to 74 Years	24,688	24,688	79,118	3,450,411	9,679.3	177,285	100,920.3	139.26	139.76	3.20	43.61
75 to 84 Years	27,058	27,058	89,769	3,826,106	10,740.4	188,504	115,886.2	143.54	141.40	3.32	42.62
85+ Years	11,261	11,261	41,436	1,538,480	4,316.8	126,394	83,249.9	89.09	136.62	3.68	37.13

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization											
00 to 40 Years	1,014	1,014	3,211	108,672	313.0	28,980	13,102.2	34.99	107.17	3.17	33.84
41 to 54 Years	6,814	6,814	21,809	747,481	2,145.4	84,850	43,262.1	80.31	109.70	3.20	34.27
55 to 64 Years	16,493	16,493	52,132	1,949,552	5,523.2	147,880	80,129.5	111.53	118.20	3.16	37.40
65 to 74 Years	25,059	25,059	80,182	3,495,741	9,809.0	186,621	107,804.0	134.28	139.50	3.20	43.60
75 to 84 Years	28,874	28,874	96,599	4,121,394	11,570.4	201,512	124,491.2	143.29	142.74	3.35	42.66
85+ Years	12,461	12,461	45,547	1,694,740	4,760.2	135,593	90,240.8	91.90	136.00	3.66	37.21
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease											
00 to 40 Years	1,062	1,062	3,427	115,495	331.9	29,117	13,161.3	36.47	108.75	3.23	33.70
41 to 54 Years	7,470	7,470	24,051	824,204	2,363.6	87,085	44,271.9	85.78	110.34	3.22	34.27
55 to 64 Years	18,974	18,974	60,260	2,253,806	6,383.3	154,603	83,161.3	122.73	118.78	3.18	37.40
65 to 74 Years	30,243	30,243	96,390	4,176,851	11,728.0	197,994	113,180.3	152.75	138.11	3.19	43.33
75 to 84 Years	34,733	34,733	115,357	4,913,172	13,798.1	213,399	131,192.3	162.76	141.46	3.32	42.59
85+ Years	14,128	14,128	51,154	1,919,818	5,388.9	140,699	93,636.7	100.41	135.89	3.62	37.53
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization											
00 to 40 Years	1,063	1,063	3,425	115,400	331.7	29,148	13,178.1	36.47	108.56	3.22	33.69
41 to 54 Years	7,473	7,473	23,996	822,362	2,358.4	87,148	44,308.5	85.75	110.04	3.21	34.27
55 to 64 Years	18,951	18,951	60,139	2,249,421	6,372.1	154,660	83,195.5	122.53	118.70	3.17	37.40
65 to 74 Years	30,151	30,151	96,059	4,163,321	11,689.4	197,936	113,062.5	152.33	138.08	3.19	43.34
75 to 84 Years	34,608	34,608	114,925	4,892,372	13,739.5	213,331	131,061.7	162.23	141.37	3.32	42.57
85+ Years	14,109	14,109	51,096	1,916,622	5,379.7	140,799	93,699.2	100.21	135.84	3.62	37.51
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA											
00 to 40 Years	1,041	1,041	3,342	113,082	324.9	28,972	13,068.4	35.93	108.63	3.21	33.84
41 to 54 Years	7,228	7,228	23,139	793,986	2,278.4	86,382	43,816.1	83.67	109.85	3.20	34.31
55 to 64 Years	18,221	18,221	57,476	2,155,064	6,107.0	152,980	82,074.7	119.11	118.27	3.15	37.50
65 to 74 Years	28,727	28,727	90,514	3,945,012	11,079.5	195,223	110,836.6	147.15	137.33	3.15	43.58
75 to 84 Years	32,387	32,387	106,087	4,553,668	12,793.1	209,043	126,994.6	154.93	140.60	3.28	42.92
85+ Years	13,026	13,026	46,355	1,755,432	4,932.2	137,188	89,696.5	94.95	134.76	3.56	37.87

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease											
00 to 40 Years	1,014	1,014	3,236	109,706	315.5	28,919	13,046.2	35.06	108.19	3.19	33.90
41 to 54 Years	7,075	7,075	22,603	777,191	2,230.8	85,922	43,589.4	82.34	109.85	3.19	34.38
55 to 64 Years	17,565	17,565	55,146	2,066,200	5,859.7	151,415	81,198.6	116.01	117.63	3.14	37.47
65 to 74 Years	27,007	27,007	84,305	3,711,309	10,430.1	191,287	108,603.0	141.19	137.42	3.12	44.02
75 to 84 Years	29,773	29,773	95,367	4,177,465	11,748.2	202,146	122,724.0	147.28	140.31	3.20	43.80
85+ Years	11,542	11,542	40,309	1,560,420	4,386.3	130,968	85,574.1	88.13	135.19	3.49	38.71
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence											
00 to 40 Years	1,062	1,062	3,425	115,200	331.0	29,089	13,125.8	36.51	108.47	3.23	33.64
41 to 54 Years	7,424	7,424	23,917	818,734	2,348.1	86,918	44,062.8	85.41	110.28	3.22	34.23
55 to 64 Years	18,706	18,706	59,369	2,220,637	6,291.8	154,003	82,547.5	121.47	118.71	3.17	37.40
65 to 74 Years	29,479	29,479	94,089	4,072,814	11,436.9	196,262	111,409.0	150.20	138.16	3.19	43.29
75 to 84 Years	33,242	33,242	110,203	4,711,004	13,231.6	209,852	127,491.3	158.41	141.72	3.32	42.75
85+ Years	13,238	13,238	47,347	1,797,458	5,048.3	137,142	89,742.1	96.53	135.78	3.58	37.96
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia											
00 to 40 Years	974	974	3,108	105,466	303.5	28,698	12,973.6	33.94	108.28	3.19	33.93
41 to 54 Years	6,916	6,916	21,945	755,322	2,169.6	85,233	43,411.3	81.14	109.21	3.17	34.42
55 to 64 Years	17,431	17,431	54,714	2,066,486	5,854.2	149,880	80,808.6	116.30	118.55	3.14	37.77
65 to 74 Years	27,365	27,365	85,872	3,787,808	10,632.4	189,532	108,142.7	144.38	138.42	3.14	44.11
75 to 84 Years	31,126	31,126	101,610	4,422,947	12,422.5	201,733	123,298.6	154.29	142.10	3.26	43.53
85+ Years	12,388	12,388	44,222	1,699,835	4,771.8	130,939	86,159.7	94.61	137.22	3.57	38.44
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion											
00 to 40 Years	887	887	2,787	93,507	269.3	28,471	12,690.0	31.15	105.42	3.14	33.55
41 to 54 Years	6,620	6,620	21,350	738,084	2,112.8	85,052	42,829.9	77.83	111.49	3.23	34.57
55 to 64 Years	17,320	17,320	54,717	2,061,151	5,837.3	151,159	80,632.0	114.58	119.00	3.16	37.67
65 to 74 Years	28,145	28,145	89,509	3,897,481	10,938.1	194,578	110,169.0	144.65	138.48	3.18	43.54
75 to 84 Years	33,199	33,199	109,971	4,694,752	13,182.7	210,824	128,667.4	157.47	141.41	3.31	42.69
85+ Years	13,697	13,697	49,419	1,857,296	5,212.2	139,960	92,953.0	97.86	135.60	3.61	37.58

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation											
00 to 40 Years	976	976	3,133	106,241	305.3	28,596	12,694.6	34.13	108.85	3.21	33.91
41 to 54 Years	7,093	7,093	22,993	790,672	2,264.9	86,138	43,200.8	82.34	111.47	3.24	34.39
55 to 64 Years	18,375	18,375	58,572	2,195,244	6,213.7	153,033	81,543.3	120.07	119.47	3.19	37.48
65 to 74 Years	29,702	29,702	94,679	4,108,163	11,534.3	196,864	111,677.0	150.88	138.31	3.19	43.39
75 to 84 Years	34,423	34,423	114,461	4,875,284	13,690.3	212,899	130,430.6	161.69	141.63	3.33	42.59
85+ Years	14,087	14,087	51,002	1,914,475	5,373.3	140,722	93,579.3	100.11	135.90	3.62	37.54
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement											
00 to 40 Years	1,063	1,063	3,425	115,520	332.1	29,051	13,120.0	36.59	108.67	3.22	33.73
41 to 54 Years	7,394	7,394	23,829	816,992	2,342.9	85,862	43,552.2	86.11	110.49	3.22	34.29
55 to 64 Years	18,662	18,662	59,255	2,217,769	6,280.7	151,613	81,479.4	123.09	118.84	3.18	37.43
65 to 74 Years	29,823	29,823	95,072	4,116,027	11,558.9	195,784	111,871.9	152.33	138.02	3.19	43.29
75 to 84 Years	34,277	34,277	113,708	4,841,490	13,596.6	212,057	130,425.1	161.64	141.25	3.32	42.58
85+ Years	14,014	14,014	50,720	1,902,581	5,340.0	140,227	93,323.3	99.94	135.76	3.62	37.51
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists											
00 to 40 Years	1,036	1,036	3,325	111,852	321.8	28,924	12,985.5	35.82	107.97	3.21	33.64
41 to 54 Years	7,293	7,293	23,425	800,709	2,296.7	86,270	43,582.1	84.54	109.79	3.21	34.18
55 to 64 Years	18,387	18,387	58,540	2,180,682	6,177.4	152,295	81,425.5	120.73	118.60	3.18	37.25
65 to 74 Years	28,967	28,967	92,293	3,993,495	11,217.6	193,352	109,574.7	149.81	137.86	3.19	43.27
75 to 84 Years	32,939	32,939	109,289	4,649,124	13,061.9	207,418	126,388.8	158.80	141.14	3.32	42.54
85+ Years	13,404	13,404	48,555	1,824,086	5,122.6	136,176	89,458.2	98.43	136.09	3.62	37.57
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates											
00 to 40 Years	1,050	1,050	3,362	113,265	325.7	29,061	13,106.6	36.13	107.87	3.20	33.69
41 to 54 Years	7,193	7,193	23,226	794,559	2,277.7	85,934	43,370.6	83.70	110.46	3.23	34.21
55 to 64 Years	17,815	17,815	56,393	2,112,275	5,980.4	150,859	80,586.7	118.09	118.57	3.17	37.46
65 to 74 Years	27,684	27,684	88,606	3,839,147	10,777.8	190,750	108,181.5	145.13	138.68	3.20	43.33
75 to 84 Years	31,535	31,535	105,173	4,484,065	12,588.1	203,682	124,288.0	154.82	142.19	3.34	42.64
85+ Years	12,747	12,747	46,200	1,718,470	4,831.7	132,666	87,037.7	96.08	134.81	3.62	37.20

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins											
00 to 40 Years	951	951	2,988	100,822	290.1	27,934	12,416.7	34.04	106.02	3.14	33.74
41 to 54 Years	5,368	5,368	16,983	575,013	1,655.4	71,286	34,979.2	75.30	107.12	3.16	33.86
55 to 64 Years	10,731	10,731	33,786	1,235,170	3,517.4	108,636	56,882.4	98.78	115.10	3.15	36.56
65 to 74 Years	14,726	14,726	46,997	1,979,854	5,584.4	134,939	77,763.0	109.13	134.45	3.19	42.13
75 to 84 Years	17,221	17,221	57,403	2,379,844	6,715.0	149,225	93,487.9	115.40	138.19	3.33	41.46
85+ Years	8,014	8,014	29,513	1,072,103	3,021.2	105,914	69,694.0	75.67	133.78	3.68	36.33
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates											
00 to 40 Years	1,040	1,040	3,316	111,851	321.3	28,912	13,034.2	35.97	107.55	3.19	33.73
41 to 54 Years	7,157	7,157	22,877	782,967	2,245.7	84,810	42,929.5	84.39	109.40	3.20	34.23
55 to 64 Years	17,931	17,931	57,100	2,126,598	6,025.9	149,285	80,073.9	120.11	118.60	3.18	37.24
65 to 74 Years	28,674	28,674	91,214	3,941,622	11,069.6	191,902	109,625.4	149.42	137.46	3.18	43.21
75 to 84 Years	33,522	33,522	111,601	4,747,811	13,332.4	209,069	128,568.7	160.34	141.63	3.33	42.54
85+ Years	13,853	13,853	50,346	1,884,743	5,290.4	139,377	92,768.5	99.39	136.05	3.63	37.44
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals											
00 to 40 Years	1,025	1,025	3,298	111,191	319.3	28,801	12,907.0	35.59	108.48	3.22	33.71
41 to 54 Years	7,326	7,326	23,574	808,426	2,319.2	86,373	43,630.6	84.82	110.35	3.22	34.29
55 to 64 Years	18,622	18,622	59,092	2,211,738	6,265.1	153,483	82,066.0	121.33	118.77	3.17	37.43
65 to 74 Years	29,793	29,793	94,844	4,116,098	11,558.0	196,714	111,808.4	151.45	138.16	3.18	43.40
75 to 84 Years	34,301	34,301	114,001	4,861,759	13,651.8	212,309	129,856.8	161.56	141.74	3.32	42.65
85+ Years	14,023	14,023	50,722	1,905,722	5,349.0	140,078	92,692.6	100.11	135.90	3.62	37.57
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil											
00 to 40 Years	1,050	1,050	3,392	114,375	328.6	28,947	13,020.2	36.27	108.93	3.23	33.72
41 to 54 Years	7,343	7,343	23,604	808,721	2,318.1	86,119	43,553.4	85.27	110.13	3.21	34.26
55 to 64 Years	18,590	18,590	59,172	2,212,794	6,266.3	152,472	81,744.1	121.92	119.03	3.18	37.40
65 to 74 Years	29,609	29,609	94,167	4,079,326	11,458.4	195,456	111,568.1	151.49	137.77	3.18	43.32
75 to 84 Years	34,057	34,057	113,118	4,808,118	13,503.1	210,994	129,669.4	161.41	141.18	3.32	42.51
85+ Years	13,855	13,855	49,971	1,874,211	5,261.9	139,423	92,752.0	99.37	135.27	3.61	37.51

Table 3a: Summary of Incident Dabigatran Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria and Sex

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation											
Female	10,216	10,216	39,711	1,444,386	4,124.6	343,358	216,603.6	29.75	141.38	3.89	36.37
Male	18,966	18,966	69,970	2,574,063	7,387.2	433,922	267,825.2	43.71	135.72	3.69	36.79
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease											
Female	10,060	10,060	39,119	1,423,959	4,066.8	339,998	213,679.2	29.59	141.55	3.89	36.40
Male	18,652	18,652	68,810	2,534,396	7,271.9	428,789	263,579.6	43.50	135.88	3.69	36.83
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia											
Female	4,099	4,099	15,683	562,676	1,610.0	275,960	184,135.4	14.85	137.27	3.83	35.88
Male	7,627	7,627	26,597	953,304	2,752.6	342,103	228,525.5	22.29	124.99	3.49	35.84
Unknown	0	0	0	0	0.0	12	8.0	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy											
Female	8,714	8,714	34,007	1,234,913	3,529.8	314,406	195,418.8	27.72	141.72	3.90	36.31
Male	15,892	15,892	58,659	2,140,274	6,146.4	390,854	238,863.2	40.66	134.68	3.69	36.49
Unknown	0	0	0	0	0.0	11	5.3	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization											
Female	9,543	9,543	37,353	1,358,335	3,878.0	332,793	209,811.9	28.68	142.34	3.91	36.36
Male	16,743	16,743	62,006	2,273,590	6,525.5	408,115	252,926.3	41.03	135.79	3.70	36.67
Unknown	0	0	0	0	0.0	12	7.8	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease											
Female	10,203	10,203	39,655	1,442,586	4,119.7	342,800	216,098.4	29.76	141.39	3.89	36.38
Male	18,944	18,944	69,877	2,571,113	7,378.5	433,143	267,175.5	43.74	135.72	3.69	36.79
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization											
Female	10,184	10,184	39,545	1,439,061	4,109.7	342,877	216,130.7	29.70	141.31	3.88	36.39
Male	18,905	18,905	69,698	2,563,818	7,358.1	433,203	267,030.2	43.64	135.62	3.69	36.78
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA											
Female	9,490	9,490	36,436	1,328,817	3,798.3	336,582	209,478.8	28.20	140.02	3.84	36.47
Male	18,123	18,123	66,451	2,442,418	7,014.2	427,372	261,357.0	42.41	134.77	3.67	36.76
Unknown	0	0	0	0	0.0	13	7.9	0.00	---	---	---

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease											
Female	9,136	9,136	35,440	1,290,960	3,690.9	327,555	203,195.3	27.89	141.30	3.88	36.43
Male	17,803	17,803	65,150	2,395,553	6,879.7	418,623	255,458.8	42.53	134.56	3.66	36.77
Unknown	0	0	0	0	0.0	12	6.8	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence											
Female	9,893	9,893	38,479	1,398,190	3,993.8	337,404	209,727.6	29.32	141.33	3.89	36.34
Male	18,715	18,715	69,039	2,537,822	7,284.5	429,914	263,022.5	43.53	135.60	3.69	36.76
Unknown	0	0	0	0	0.0	13	7.3	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia											
Female	9,615	9,615	37,581	1,371,368	3,915.4	326,995	204,254.1	29.40	142.63	3.91	36.49
Male	18,090	18,090	66,842	2,463,801	7,070.8	414,162	254,507.1	43.68	136.20	3.69	36.86
Unknown	0	0	0	0	0.0	12	7.9	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion											
Female	9,083	9,083	35,512	1,295,475	3,697.2	339,088	212,524.1	26.79	142.63	3.91	36.48
Male	16,161	16,161	60,664	2,251,868	6,449.7	425,085	259,578.0	38.02	139.34	3.75	37.12
Unknown	0	0	0	0	0.0	12	7.9	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation											
Female	9,852	9,852	38,690	1,409,018	4,021.0	341,405	214,093.1	28.86	143.02	3.93	36.42
Male	17,917	17,917	67,410	2,489,047	7,133.0	430,423	263,517.9	41.63	138.92	3.76	36.92
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement											
Female	9,666	9,666	37,480	1,364,637	3,896.3	334,333	210,624.0	28.91	141.18	3.88	36.41
Male	18,964	18,964	69,967	2,573,973	7,387.0	433,865	267,764.4	43.71	135.73	3.69	36.79
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists											
Female	9,845	9,845	38,311	1,393,078	3,978.6	333,918	207,814.4	29.48	141.50	3.89	36.36
Male	18,534	18,534	68,343	2,514,181	7,214.5	425,078	259,916.9	43.60	135.65	3.69	36.79
Unknown	0	0	0	0	0.0	13	7.7	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates											
Female	9,603	9,603	37,517	1,364,867	3,897.3	330,613	205,721.9	29.05	142.13	3.91	36.38
Male	17,865	17,865	65,728	2,414,482	6,934.9	417,609	254,901.5	42.78	135.15	3.68	36.73
Unknown	0	0	0	0	0.0	13	8.0	0.00	---	---	---

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins											
Female	5,816	5,816	21,598	771,362	2,214.8	257,884	160,542.2	22.55	132.63	3.71	35.71
Male	10,093	10,093	34,502	1,230,525	3,564.5	307,550	186,919.6	32.82	121.92	3.42	35.67
Unknown	0	0	0	0	0.0	10	4.5	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates											
Female	9,811	9,811	37,953	1,382,110	3,948.2	336,923	212,273.3	29.12	140.87	3.87	36.42
Male	17,964	17,964	65,997	2,422,730	6,957.6	420,759	259,156.7	42.69	134.87	3.67	36.71
Unknown	0	0	0	0	0.0	13	8.1	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals											
Female	9,895	9,895	38,540	1,403,886	4,008.5	339,429	212,150.8	29.15	141.88	3.89	36.43
Male	18,825	18,825	69,554	2,558,733	7,342.7	431,861	265,336.3	43.59	135.92	3.69	36.79
Unknown	0	0	0	0	0.0	13	6.8	0.00	---	---	---
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil											
Female	9,908	9,908	38,500	1,399,954	3,997.2	337,813	212,529.5	29.33	141.30	3.89	36.36
Male	18,592	18,592	68,681	2,522,978	7,242.7	429,303	264,336.0	43.31	135.70	3.69	36.73
Unknown	0	0	0	0	0.0	12	7.6	0.00	---	---	---

Table 3b. Summary of Incident Warfarin Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria and Sex

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation											
Female	45,534	45,534	155,083	6,126,463	17,249.0	343,358	214,537.8	132.61	134.55	3.41	39.50
Male	61,329	61,329	196,344	8,102,646	22,818.1	433,922	265,186.8	141.34	132.12	3.20	41.27
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease											
Female	44,700	44,700	151,978	6,015,002	16,934.4	339,998	211,676.6	131.47	134.56	3.40	39.58
Male	59,973	59,973	191,815	7,934,593	22,342.7	428,789	261,050.8	139.87	132.30	3.20	41.37
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia											
Female	18,260	18,260	61,960	2,362,906	6,689.8	275,957	183,379.9	66.17	129.40	3.39	38.14
Male	23,645	23,645	75,685	3,006,233	8,510.3	342,101	227,653.4	69.12	127.14	3.20	39.72
Unknown	0	0	0	0	0.0	12	8.0	0.00	---	---	---
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy											
Female	38,094	38,094	129,997	5,138,979	14,466.4	314,402	193,837.5	121.16	134.90	3.41	39.53
Male	49,362	49,362	158,489	6,527,055	18,371.3	390,846	236,946.0	126.30	132.23	3.21	41.18
Unknown	2	2	5	150	0.5	11	5.3	181.82	75.00	2.50	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization											
Female	40,869	40,869	139,285	5,504,756	15,499.5	332,790	208,052.6	122.81	134.69	3.41	39.52
Male	49,843	49,843	160,188	6,612,614	18,621.0	408,109	250,969.4	122.13	132.67	3.21	41.28
Unknown	3	3	7	210	0.7	12	7.8	250.00	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease											
Female	45,418	45,418	154,748	6,115,599	17,217.7	342,800	214,041.8	132.49	134.65	3.41	39.52
Male	61,189	61,189	195,884	8,087,537	22,775.3	433,142	264,553.8	141.27	132.17	3.20	41.29
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization											
Female	45,327	45,327	154,353	6,100,103	17,174.0	342,876	214,085.2	132.20	134.58	3.41	39.52
Male	61,025	61,025	195,280	8,059,185	22,696.0	433,203	264,412.2	140.87	132.06	3.20	41.27
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA											
Female	42,343	42,343	142,260	5,659,488	15,940.3	336,581	207,584.3	125.80	133.66	3.36	39.78
Male	58,284	58,284	184,646	7,656,546	21,574.0	427,371	258,894.7	136.38	131.37	3.17	41.47
Unknown	3	3	7	210	0.7	13	7.9	230.77	70.00	2.33	30.00

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease											
Female	38,993	38,993	128,518	5,196,441	14,652.5	327,549	201,517.6	119.04	133.27	3.30	40.43
Male	54,980	54,980	172,441	7,205,640	20,317.3	418,618	253,210.9	131.34	131.06	3.14	41.79
Unknown	3	3	7	210	0.7	12	6.8	250.00	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence											
Female	43,197	43,197	146,775	5,815,302	16,382.5	337,401	207,863.5	128.03	134.62	3.40	39.62
Male	59,951	59,951	191,568	7,920,335	22,304.5	429,914	260,507.8	139.45	132.11	3.20	41.34
Unknown	3	3	7	210	0.7	13	7.3	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia											
Female	40,791	40,791	136,789	5,509,493	15,514.7	326,991	202,544.4	124.75	135.07	3.35	40.28
Male	55,407	55,407	174,676	7,328,191	20,638.7	414,154	252,242.1	133.78	132.26	3.15	41.95
Unknown	2	2	6	180	0.6	12	7.9	166.67	90.00	3.00	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion											
Female	43,036	43,036	146,517	5,804,050	16,338.0	339,082	210,682.6	126.92	134.86	3.40	39.61
Male	56,829	56,829	181,229	7,538,011	21,213.7	425,082	257,250.9	133.69	132.64	3.19	41.59
Unknown	3	3	7	210	0.7	12	7.9	250.00	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation											
Female	44,812	44,812	152,890	6,047,049	17,020.3	341,403	212,105.6	131.26	134.94	3.41	39.55
Male	59,841	59,841	191,943	7,942,820	22,360.8	430,416	261,011.9	139.03	132.73	3.21	41.38
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement											
Female	43,916	43,916	149,722	5,909,895	16,639.3	334,332	208,637.1	131.35	134.57	3.41	39.47
Male	61,314	61,314	196,280	8,100,274	22,811.2	433,865	265,126.6	141.32	132.11	3.20	41.27
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists											
Female	43,114	43,114	146,694	5,790,448	16,311.7	333,917	205,940.9	129.12	134.31	3.40	39.47
Male	58,909	58,909	188,726	7,769,290	21,885.6	425,076	257,466.2	138.58	131.89	3.20	41.17
Unknown	3	3	7	210	0.7	13	7.7	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates											
Female	42,124	42,124	143,635	5,673,301	15,975.1	330,609	203,900.1	127.41	134.68	3.41	39.50
Male	55,897	55,897	179,318	7,388,270	20,805.5	417,605	252,663.1	133.85	132.18	3.21	41.20
Unknown	3	3	7	210	0.7	13	8.0	230.77	70.00	2.33	30.00

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins											
Female	25,257	25,257	86,050	3,312,709	9,368.0	257,879	159,506.4	97.94	131.16	3.41	38.50
Male	31,753	31,753	101,618	4,030,037	11,415.4	307,542	185,712.3	103.25	126.92	3.20	39.66
Unknown	1	1	2	60	0.2	10	4.5	100.00	60.00	2.00	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates											
Female	44,031	44,031	150,412	5,932,780	16,702.8	336,923	210,304.1	130.69	134.74	3.42	39.44
Male	58,143	58,143	186,035	7,662,602	21,581.7	420,756	256,688.0	138.19	131.79	3.20	41.19
Unknown	3	3	7	210	0.7	13	8.1	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals											
Female	44,372	44,372	151,185	5,985,303	16,851.0	339,426	210,196.7	130.73	134.89	3.41	39.59
Male	60,715	60,715	194,339	8,029,421	22,610.6	431,862	262,757.8	140.59	132.25	3.20	41.32
Unknown	3	3	7	210	0.7	13	6.8	230.77	70.00	2.33	30.00
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil											
Female	44,330	44,330	151,023	5,960,617	16,784.1	337,813	210,531.3	131.23	134.46	3.41	39.47
Male	60,171	60,171	192,394	7,936,718	22,351.7	429,303	261,768.3	140.16	131.90	3.20	41.25
Unknown	3	3	7	210	0.7	12	7.6	250.00	70.00	2.33	30.00

Table 4a. Summary of Incident Dabigatran Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria and Data Partner

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation											
2010	1,138	1,138	6,096	225,089	635.4	280,211	43,749.0	4.06	197.79	5.36	36.92
2011	16,366	16,366	70,845	2,620,327	7,509.9	481,366	214,094.6	34.00	160.11	4.33	36.99
2012	11,678	11,678	32,740	1,173,033	3,366.6	502,346	226,593.3	23.25	100.45	2.80	35.83
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease											
2010	1,120	1,120	6,000	221,939	626.8	276,881	43,162.4	4.05	198.16	5.36	36.99
2011	16,106	16,106	69,799	2,584,173	7,404.5	476,095	211,054.3	33.83	160.45	4.33	37.02
2012	11,486	11,486	32,130	1,152,243	3,307.5	496,118	223,050.2	23.15	100.32	2.80	35.86
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia											
2010	456	456	2,492	91,659	257.9	218,499	33,670.5	2.09	201.01	5.46	36.78
2011	6,519	6,519	26,917	974,036	2,809.1	384,961	177,618.8	16.93	149.41	4.13	36.19
2012	4,751	4,751	12,871	450,285	1,295.7	403,072	201,379.5	11.79	94.78	2.71	34.98
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy											
2010	940	940	4,993	184,300	520.9	250,813	38,752.6	3.75	196.06	5.31	36.91
2011	13,732	13,732	59,886	2,201,791	6,312.9	435,999	191,279.5	31.50	160.34	4.36	36.77
2012	9,934	9,934	27,787	989,096	2,842.5	452,964	204,255.3	21.93	99.57	2.80	35.60
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization											
2010	1,020	1,020	5,499	202,975	572.3	266,868	41,512.4	3.82	199.00	5.39	36.91
2011	14,727	14,727	64,239	2,370,948	6,795.9	459,273	204,209.7	32.07	160.99	4.36	36.91
2012	10,539	10,539	29,621	1,058,002	3,035.4	477,466	217,023.9	22.07	100.39	2.81	35.72
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease											
2010	1,138	1,138	6,096	225,089	635.4	279,724	43,661.2	4.07	197.79	5.36	36.92
2011	16,342	16,342	70,732	2,616,717	7,499.5	480,555	213,616.5	34.01	160.12	4.33	36.99
2012	11,667	11,667	32,704	1,171,893	3,363.4	501,389	226,004.4	23.27	100.45	2.80	35.83
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization											
2010	1,130	1,130	6,030	222,959	629.3	279,700	43,656.0	4.04	197.31	5.34	36.97
2011	16,320	16,320	70,581	2,610,742	7,482.8	480,586	213,560.3	33.96	159.97	4.32	36.99
2012	11,639	11,639	32,632	1,169,178	3,355.7	501,427	225,952.7	23.21	100.45	2.80	35.83
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA											
2010	1,069	1,069	5,563	204,987	579.6	274,474	42,702.3	3.89	191.76	5.20	36.85
2011	15,472	15,472	66,597	2,464,126	7,066.6	472,565	208,314.8	32.74	159.26	4.30	37.00
2012	11,072	11,072	30,727	1,102,122	3,166.2	491,780	219,826.6	22.51	99.54	2.78	35.87

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease											
2010	1,050	1,050	5,518	204,810	578.5	267,503	41,512.0	3.93	195.06	5.26	37.12
2011	15,122	15,122	65,159	2,410,613	6,913.4	461,767	203,029.6	32.75	159.41	4.31	37.00
2012	10,767	10,767	29,913	1,071,090	3,078.7	479,387	214,119.3	22.46	99.48	2.78	35.81
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence											
2010	1,119	1,119	6,014	221,715	625.8	274,895	42,746.5	4.07	198.14	5.37	36.87
2011	16,060	16,060	69,468	2,568,256	7,361.1	474,349	208,944.1	33.86	159.92	4.33	36.97
2012	11,429	11,429	32,036	1,146,041	3,291.4	493,684	221,066.8	23.15	100.27	2.80	35.77
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia											
2010	1,084	1,084	5,839	215,779	609.2	268,473	41,842.0	4.04	199.06	5.39	36.95
2011	15,565	15,565	67,570	2,506,996	7,184.0	459,172	203,072.7	33.90	161.07	4.34	37.10
2012	11,056	11,056	31,014	1,112,394	3,193.1	478,174	213,854.4	23.12	100.61	2.81	35.87
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion											
2010	1,012	1,012	5,567	206,035	580.9	276,067	43,040.4	3.67	203.59	5.50	37.01
2011	14,226	14,226	62,322	2,318,022	6,635.7	472,591	209,310.4	30.10	162.94	4.38	37.19
2012	10,006	10,006	28,287	1,023,286	2,930.4	491,397	219,759.2	20.36	102.27	2.83	36.18
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation											
2010	1,082	1,082	5,971	221,176	624.2	278,183	43,359.1	3.89	204.41	5.52	37.04
2011	15,564	15,564	68,582	2,542,601	7,280.2	477,216	211,430.0	32.61	163.36	4.41	37.07
2012	11,123	11,123	31,547	1,134,288	3,249.6	497,226	222,830.1	22.37	101.98	2.84	35.96
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement											
2010	1,106	1,106	5,946	220,223	621.4	276,066	43,089.7	4.01	199.12	5.38	37.04
2011	16,048	16,048	69,365	2,567,621	7,359.0	475,071	211,180.1	33.78	160.00	4.32	37.02
2012	11,476	11,476	32,136	1,150,766	3,302.9	496,918	224,126.7	23.09	100.28	2.80	35.81
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists											
2010	1,115	1,115	5,971	220,019	621.4	271,574	42,257.3	4.11	197.33	5.36	36.85
2011	15,905	15,905	68,851	2,546,959	7,298.8	468,536	206,603.1	33.95	160.14	4.33	36.99
2012	11,359	11,359	31,832	1,140,281	3,272.9	488,826	218,878.6	23.24	100.39	2.80	35.82
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates											
2010	1,086	1,086	5,779	213,551	602.6	267,053	41,475.7	4.07	196.64	5.32	36.95
2011	15,360	15,360	66,547	2,459,896	7,053.9	461,881	203,366.5	33.26	160.15	4.33	36.96
2012	11,022	11,022	30,919	1,105,902	3,175.8	481,851	215,789.1	22.87	100.34	2.81	35.77

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins											
2010	566	566	2,895	104,398	295.9	199,050	30,884.0	2.84	184.45	5.11	36.06
2011	8,819	8,819	35,484	1,279,934	3,698.6	346,141	152,611.3	25.48	145.13	4.02	36.07
2012	6,524	6,524	17,721	617,555	1,784.8	363,460	163,971.1	17.95	94.66	2.72	34.85
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates											
2010	1,081	1,081	5,820	214,683	607.1	272,153	42,450.1	3.97	198.60	5.38	36.89
2011	15,517	15,517	66,859	2,469,833	7,082.8	468,373	208,056.8	33.13	159.17	4.31	36.94
2012	11,177	11,177	31,271	1,120,324	3,215.9	490,069	220,931.2	22.81	100.23	2.80	35.83
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals											
2010	1,120	1,120	6,024	222,389	627.6	277,047	43,156.3	4.04	198.56	5.38	36.92
2011	16,092	16,092	69,713	2,580,950	7,396.4	477,227	211,049.6	33.72	160.39	4.33	37.02
2012	11,508	11,508	32,357	1,159,280	3,327.1	497,592	223,288.0	23.13	100.74	2.81	35.83
Exposure of Dabigatran, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil											
2010	1,105	1,105	5,918	218,939	617.8	275,499	42,978.6	4.01	198.13	5.36	37.00
2011	15,962	15,962	69,194	2,556,112	7,327.6	474,426	210,548.7	33.64	160.14	4.33	36.94
2012	11,433	11,433	32,069	1,147,881	3,294.4	495,807	223,345.9	23.06	100.40	2.80	35.79

Table 4b. Summary of Incident Warfarin Use in the MSDD between October 19, 2010 and December 31, 2012, by Pre-Existing Condition Criteria and Data Partner

	New Users	New Episodes	New Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation											
2010	12,766	12,766	47,214	1,988,092	5,590.4	280,211	43,749.0	45.56	155.73	3.70	42.11
2011	46,993	46,993	177,886	7,270,673	20,593.9	479,066	213,234.4	98.09	154.72	3.79	40.87
2012	47,107	47,107	126,334	4,970,554	13,883.4	493,464	222,749.4	95.46	105.52	2.68	39.34
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Chronic Liver Disease											
2010	12,537	12,537	46,230	1,949,790	5,483.1	276,881	43,162.4	45.28	155.52	3.69	42.18
2011	46,045	46,045	173,951	7,130,362	20,195.0	473,862	210,220.5	97.17	154.86	3.78	40.99
2012	46,094	46,094	123,619	4,869,653	13,599.8	487,544	219,352.6	94.54	105.65	2.68	39.39
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hypercholesterolemia											
2010	5,149	5,149	18,613	754,452	2,134.1	218,499	33,670.5	23.57	146.52	3.61	40.53
2011	18,327	18,327	69,076	2,705,369	7,706.9	384,114	177,308.1	47.71	147.62	3.77	39.17
2012	18,429	18,429	49,956	1,909,318	5,359.1	400,179	200,062.7	46.05	103.60	2.71	38.22
Exposure of Warfarin Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Malignancy											
2010	10,373	10,373	38,437	1,616,343	4,550.2	250,813	38,752.6	41.36	155.82	3.71	42.05
2011	38,469	38,469	146,209	5,963,505	16,886.7	434,214	190,613.9	88.59	155.02	3.80	40.79
2012	38,616	38,616	103,845	4,086,336	11,401.3	446,270	201,422.3	86.53	105.82	2.69	39.35
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Coronary Revascularization											
2010	10,912	10,912	40,416	1,698,828	4,775.7	266,868	41,512.4	40.89	155.68	3.70	42.03
2011	39,860	39,860	151,474	6,178,377	17,499.1	457,396	203,496.0	87.15	155.00	3.80	40.79
2012	39,943	39,943	107,590	4,240,375	11,846.4	470,551	214,021.5	84.89	106.16	2.69	39.41
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Ischemic Heart Disease											
2010	12,742	12,742	47,156	1,985,979	5,584.4	279,724	43,661.2	45.55	155.86	3.70	42.12
2011	46,871	46,871	177,431	7,256,398	20,553.2	478,263	212,760.5	98.00	154.82	3.79	40.90
2012	46,997	46,997	126,052	4,960,969	13,856.2	492,557	222,182.1	95.41	105.56	2.68	39.36
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cerebral Revascularization											
2010	12,712	12,712	47,002	1,979,724	5,567.2	279,700	43,656.0	45.45	155.74	3.70	42.12
2011	46,761	46,761	176,886	7,230,103	20,478.8	478,296	212,705.3	97.77	154.62	3.78	40.87
2012	46,882	46,882	125,752	4,949,671	13,824.8	492,619	222,144.1	95.17	105.58	2.68	39.36
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of TIA											
2010	12,041	12,041	43,911	1,857,074	5,223.0	274,474	42,702.3	43.87	154.23	3.65	42.29
2011	44,291	44,291	165,215	6,800,468	19,271.5	470,419	207,511.3	94.15	153.54	3.73	41.16
2012	44,298	44,298	117,787	4,658,702	13,020.5	483,537	216,273.3	91.61	105.17	2.66	39.55

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Other Cerebrovascular Disease											
2010	11,409	11,409	40,933	1,758,076	4,944.8	267,503	41,512.0	42.65	154.10	3.59	42.95
2011	41,265	41,265	151,350	6,296,084	17,866.8	459,778	202,294.4	89.75	152.58	3.67	41.60
2012	41,302	41,302	108,683	4,348,131	12,158.9	471,943	210,928.9	87.51	105.28	2.63	40.01
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Urinary Incontinence											
2010	12,357	12,357	45,278	1,924,143	5,408.7	274,895	42,746.5	44.95	155.71	3.66	42.50
2011	45,363	45,363	171,456	7,024,041	19,896.1	472,169	208,137.6	96.07	154.84	3.78	40.97
2012	45,431	45,431	121,616	4,787,663	13,382.8	485,395	217,494.5	93.60	105.38	2.68	39.37
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Hospitalized Pneumonia											
2010	11,612	11,612	42,129	1,811,705	5,094.3	268,473	41,842.0	43.25	156.02	3.63	43.00
2011	42,177	42,177	157,097	6,524,589	18,489.9	457,153	202,322.3	92.26	154.70	3.72	41.53
2012	42,411	42,411	112,245	4,501,570	12,569.8	470,678	210,630.2	90.11	106.14	2.65	40.10
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioversion											
2010	11,832	11,832	43,668	1,853,249	5,208.9	276,067	43,040.4	42.86	156.63	3.69	42.44
2011	43,817	43,817	165,744	6,810,846	19,280.0	470,652	208,571.8	93.10	155.44	3.78	41.09
2012	44,219	44,219	118,341	4,678,176	13,063.5	483,435	216,329.3	91.47	105.80	2.68	39.53
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Cardioablation											
2010	12,414	12,414	46,162	1,949,975	5,480.2	278,183	43,359.1	44.63	157.08	3.72	42.24
2011	46,009	46,009	174,643	7,152,012	20,251.5	475,132	210,633.9	96.83	155.45	3.80	40.95
2012	46,233	46,233	124,035	4,888,092	13,650.0	488,626	219,132.6	94.62	105.73	2.68	39.41
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Estrogen Replacement											
2010	12,556	12,556	46,490	1,959,944	5,510.5	276,066	43,089.7	45.48	156.10	3.70	42.16
2011	46,221	46,221	175,045	7,151,825	20,258.1	472,802	210,333.7	97.76	154.73	3.79	40.86
2012	46,456	46,456	124,474	4,898,610	13,682.6	488,192	220,348.5	95.16	105.45	2.68	39.35
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of H2 Antagonists											
2010	12,212	12,212	45,137	1,899,063	5,340.3	271,574	42,257.3	44.97	155.51	3.70	42.07
2011	44,786	44,786	169,545	6,909,933	19,577.1	466,382	205,800.1	96.03	154.29	3.79	40.76
2012	45,028	45,028	120,745	4,750,952	13,280.6	480,679	215,357.4	93.68	105.51	2.68	39.35
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Nitrates											
2010	11,691	11,691	43,298	1,821,859	5,121.3	267,053	41,475.7	43.78	155.83	3.70	42.08
2011	43,088	43,088	163,242	6,666,753	18,884.8	459,855	202,612.6	93.70	154.72	3.79	40.84
2012	43,245	43,245	116,420	4,573,169	12,775.3	474,257	212,482.8	91.18	105.75	2.69	39.28

	New Users	New Episodes	Dispensings	Total Days Supplied	Years at Risk	Eligible Members	Member-Years	New Users / 1K Eligible Members	Days Supplied/ User	Dispensings / User	Days Supplied/ Dispensing
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Statins											
2010	6,757	6,757	24,855	1,004,040	2,839.9	199,050	30,884.0	33.95	148.59	3.68	40.40
2011	24,828	24,828	93,663	3,697,801	10,518.3	344,990	152,173.8	71.97	148.94	3.77	39.48
2012	25,426	25,426	69,152	2,640,965	7,425.5	359,416	162,165.4	70.74	103.87	2.72	38.19
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Fibrates											
2010	12,136	12,136	45,030	1,889,278	5,314.8	272,153	42,450.1	44.59	155.68	3.71	41.96
2011	44,835	44,835	170,044	6,937,282	19,652.5	466,197	207,243.1	96.17	154.73	3.79	40.80
2012	45,206	45,206	121,380	4,769,032	13,318.0	481,690	217,307.0	93.85	105.50	2.69	39.29
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Antifungals											
2010	12,541	12,541	46,346	1,955,742	5,500.0	277,047	43,156.3	45.27	155.95	3.70	42.20
2011	46,225	46,225	175,123	7,167,974	20,300.4	475,004	210,215.5	97.31	155.07	3.79	40.93
2012	46,324	46,324	124,062	4,891,218	13,661.9	488,987	219,589.5	94.73	105.59	2.68	39.43
Exposure of Warfarin, Pre-Existing Inclusion of Atrial Fibrillation and Exclusion of Verapamil											
2010	12,469	12,469	46,143	1,940,391	5,456.5	275,499	42,978.6	45.26	155.62	3.70	42.05
2011	45,886	45,886	173,568	7,093,769	20,094.5	472,191	209,712.7	97.18	154.60	3.78	40.87
2012	46,149	46,149	123,713	4,863,385	13,585.5	487,192	219,615.9	94.72	105.38	2.68	39.31

Table 5. Pre-existing Conditions and Prescription Drug Dispensings among Incident Dabigatran and Warfarin Users with Atrial Fibrillation

Condition/Drug Product	Dabigatran N, (%)	Warfarin N, (%)
Atrial fibrillation	29,182 (100%)	106,866 (100%)
Age		
0-40	562 (1.9%)	1,066 (1.0%)
41-54	3,778 (12.9%)	7,489 (7.0%)
55-64	8,140 (27.9%)	19,019 (17.8%)
65-74	8,044 (27.6%)	30,320 (28.4%)
75-84	6,492 (22.2%)	34,814 (32.6%)
85+	2,166 (7.4%)	14,158 (13.2%)
Gender		
Female	10,216 (35.0%)	45,534 (42.6%)
Male	18,966 (65.0%)	61,329 (57.4%)
Medical condition		
Chronic Liver Disease	470 (1.6%)	2,190 (2.0%)
Hypercholesterolemia	17,456 (59.8%)	64,961 (60.8%)
Malignancy	4,576 (15.7%)	19,408 (18.2%)
Coronary Revascularization	2,896 (9.9%)	16,151 (15.1%)
Other Ischemic Heart Disease	35 (0.1%)	256 (0.2%)
Cerebral Revascularization	93 (0.3%)	511 (0.5%)
Transient Ischemic Attack	1,569 (5.4%)	6,236 (5.8%)
Other Cerebrovascular Disease	2,243 (7.7%)	12,890 (12.1%)
Urinary Incontinence	574 (2.0%)	3,715 (3.5%)
Hospitalized Pneumonia	1,477 (5.1%)	10,666 (10.0%)
Cardioversion	3,938 (13.5%)	6,998 (6.5%)
Cardioablation	1,413 (4.8%)	2,210 (2.1%)
Drug Products		
Estrogen Replacement	552 (1.9%)	1,633 (1.5%)
H2 Antagonists	803 (2.8%)	4,840 (4.5%)
Nitrates	1,714 (5.9%)	8,842 (8.3%)
Statins	13,273 (45.5%)	49,855 (46.7%)
Fibrates	1,407 (4.8%)	4,689 (4.4%)
Antifungals	462 (1.6%)	1,776 (1.7%)
Verapamil	682 (2.3%)	2,362 (2.2%)

Appendix A. ICD-9CM Code List for Pre-Existing Conditions

Code	CodeType	Description
Atrial Fibrillation		
427.31	ICD-9-CM Diagnosis Code	Atrial Fibrillation
Chronic Liver Disease		
571	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.0	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.1	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.2	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.3	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.4	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.40	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.41	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.42	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.49	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.5	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.6	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.8	ICD-9-CM Diagnosis Code	Chronic Liver Disease
571.9	ICD-9-CM Diagnosis Code	Chronic Liver Disease
Hypercholesterolemia		
272.0	ICD-9-CM Diagnosis Code	Hypercholesterolemia
272.2	ICD-9-CM Diagnosis Code	Hypercholesterolemia
272.4	ICD-9-CM Diagnosis Code	Hypercholesterolemia
Malignancy		
140	ICD-9-CM Diagnosis Code	Malignancy
140.0	ICD-9-CM Diagnosis Code	Malignancy
140.1	ICD-9-CM Diagnosis Code	Malignancy
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140.5	ICD-9-CM Diagnosis Code	Malignancy
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141.1	ICD-9-CM Diagnosis Code	Malignancy
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142	ICD-9-CM Diagnosis Code	Malignancy
142.0	ICD-9-CM Diagnosis Code	Malignancy
142.1	ICD-9-CM Diagnosis Code	Malignancy
142.2	ICD-9-CM Diagnosis Code	Malignancy
142.8	ICD-9-CM Diagnosis Code	Malignancy
142.9	ICD-9-CM Diagnosis Code	Malignancy
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143.1	ICD-9-CM Diagnosis Code	Malignancy
143.8	ICD-9-CM Diagnosis Code	Malignancy
143.9	ICD-9-CM Diagnosis Code	Malignancy
144	ICD-9-CM Diagnosis Code	Malignancy
144.0	ICD-9-CM Diagnosis Code	Malignancy
144.1	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
144.8	ICD-9-CM Diagnosis Code	Malignancy
144.9	ICD-9-CM Diagnosis Code	Malignancy
145	ICD-9-CM Diagnosis Code	Malignancy
145.0	ICD-9-CM Diagnosis Code	Malignancy
145.1	ICD-9-CM Diagnosis Code	Malignancy
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145.5	ICD-9-CM Diagnosis Code	Malignancy
145.6	ICD-9-CM Diagnosis Code	Malignancy
145.8	ICD-9-CM Diagnosis Code	Malignancy
145.9	ICD-9-CM Diagnosis Code	Malignancy
146	ICD-9-CM Diagnosis Code	Malignancy
146.0	ICD-9-CM Diagnosis Code	Malignancy
146.1	ICD-9-CM Diagnosis Code	Malignancy
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146.5	ICD-9-CM Diagnosis Code	Malignancy
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147.1	ICD-9-CM Diagnosis Code	Malignancy
147.2	ICD-9-CM Diagnosis Code	Malignancy
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151.2	ICD-9-CM Diagnosis Code	Malignancy
151.3	ICD-9-CM Diagnosis Code	Malignancy
151.4	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
151.5	ICD-9-CM Diagnosis Code	Malignancy
151.6	ICD-9-CM Diagnosis Code	Malignancy
151.8	ICD-9-CM Diagnosis Code	Malignancy
151.9	ICD-9-CM Diagnosis Code	Malignancy
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152.1	ICD-9-CM Diagnosis Code	Malignancy
152.2	ICD-9-CM Diagnosis Code	Malignancy
152.3	ICD-9-CM Diagnosis Code	Malignancy
152.8	ICD-9-CM Diagnosis Code	Malignancy
152.9	ICD-9-CM Diagnosis Code	Malignancy
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153.0	ICD-9-CM Diagnosis Code	Malignancy
153.1	ICD-9-CM Diagnosis Code	Malignancy
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153.5	ICD-9-CM Diagnosis Code	Malignancy
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154.2	ICD-9-CM Diagnosis Code	Malignancy
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156.0	ICD-9-CM Diagnosis Code	Malignancy
156.1	ICD-9-CM Diagnosis Code	Malignancy
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157.1	ICD-9-CM Diagnosis Code	Malignancy
157.2	ICD-9-CM Diagnosis Code	Malignancy
157.3	ICD-9-CM Diagnosis Code	Malignancy
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157.8	ICD-9-CM Diagnosis Code	Malignancy
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158.0	ICD-9-CM Diagnosis Code	Malignancy
158.8	ICD-9-CM Diagnosis Code	Malignancy
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159.9	ICD-9-CM Diagnosis Code	Malignancy
160	ICD-9-CM Diagnosis Code	Malignancy
160.0	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
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160.2	ICD-9-CM Diagnosis Code	Malignancy
160.3	ICD-9-CM Diagnosis Code	Malignancy
160.4	ICD-9-CM Diagnosis Code	Malignancy
160.5	ICD-9-CM Diagnosis Code	Malignancy
160.8	ICD-9-CM Diagnosis Code	Malignancy
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161.1	ICD-9-CM Diagnosis Code	Malignancy
161.2	ICD-9-CM Diagnosis Code	Malignancy
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161.8	ICD-9-CM Diagnosis Code	Malignancy
161.9	ICD-9-CM Diagnosis Code	Malignancy
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162.0	ICD-9-CM Diagnosis Code	Malignancy
162.2	ICD-9-CM Diagnosis Code	Malignancy
162.3	ICD-9-CM Diagnosis Code	Malignancy
162.4	ICD-9-CM Diagnosis Code	Malignancy
162.5	ICD-9-CM Diagnosis Code	Malignancy
162.8	ICD-9-CM Diagnosis Code	Malignancy
162.9	ICD-9-CM Diagnosis Code	Malignancy
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163.0	ICD-9-CM Diagnosis Code	Malignancy
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165.8	ICD-9-CM Diagnosis Code	Malignancy
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170.1	ICD-9-CM Diagnosis Code	Malignancy
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170.8	ICD-9-CM Diagnosis Code	Malignancy
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171.2	ICD-9-CM Diagnosis Code	Malignancy
171.3	ICD-9-CM Diagnosis Code	Malignancy
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171.5	ICD-9-CM Diagnosis Code	Malignancy
171.6	ICD-9-CM Diagnosis Code	Malignancy
171.7	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
171.8	ICD-9-CM Diagnosis Code	Malignancy
171.9	ICD-9-CM Diagnosis Code	Malignancy
172	ICD-9-CM Diagnosis Code	Malignancy
172.0	ICD-9-CM Diagnosis Code	Malignancy
172.1	ICD-9-CM Diagnosis Code	Malignancy
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172.9	ICD-9-CM Diagnosis Code	Malignancy
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182.8	ICD-9-CM Diagnosis Code	Malignancy
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183.0	ICD-9-CM Diagnosis Code	Malignancy
183.2	ICD-9-CM Diagnosis Code	Malignancy
183.3	ICD-9-CM Diagnosis Code	Malignancy
183.4	ICD-9-CM Diagnosis Code	Malignancy
183.5	ICD-9-CM Diagnosis Code	Malignancy
183.8	ICD-9-CM Diagnosis Code	Malignancy
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184	ICD-9-CM Diagnosis Code	Malignancy
184.0	ICD-9-CM Diagnosis Code	Malignancy
184.1	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
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184.3	ICD-9-CM Diagnosis Code	Malignancy
184.4	ICD-9-CM Diagnosis Code	Malignancy
184.8	ICD-9-CM Diagnosis Code	Malignancy
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186	ICD-9-CM Diagnosis Code	Malignancy
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186.9	ICD-9-CM Diagnosis Code	Malignancy
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187.2	ICD-9-CM Diagnosis Code	Malignancy
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188.5	ICD-9-CM Diagnosis Code	Malignancy
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190.0	ICD-9-CM Diagnosis Code	Malignancy
190.1	ICD-9-CM Diagnosis Code	Malignancy
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191.1	ICD-9-CM Diagnosis Code	Malignancy
191.2	ICD-9-CM Diagnosis Code	Malignancy
191.3	ICD-9-CM Diagnosis Code	Malignancy
191.4	ICD-9-CM Diagnosis Code	Malignancy
191.5	ICD-9-CM Diagnosis Code	Malignancy
191.6	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
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191.8	ICD-9-CM Diagnosis Code	Malignancy
191.9	ICD-9-CM Diagnosis Code	Malignancy
192	ICD-9-CM Diagnosis Code	Malignancy
192.0	ICD-9-CM Diagnosis Code	Malignancy
192.1	ICD-9-CM Diagnosis Code	Malignancy
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192.3	ICD-9-CM Diagnosis Code	Malignancy
192.8	ICD-9-CM Diagnosis Code	Malignancy
192.9	ICD-9-CM Diagnosis Code	Malignancy
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195.8	ICD-9-CM Diagnosis Code	Malignancy
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197.1	ICD-9-CM Diagnosis Code	Malignancy
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197.3	ICD-9-CM Diagnosis Code	Malignancy
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197.8	ICD-9-CM Diagnosis Code	Malignancy
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198.3	ICD-9-CM Diagnosis Code	Malignancy
198.4	ICD-9-CM Diagnosis Code	Malignancy
198.5	ICD-9-CM Diagnosis Code	Malignancy
198.6	ICD-9-CM Diagnosis Code	Malignancy
198.7	ICD-9-CM Diagnosis Code	Malignancy
198.8	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
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198.82	ICD-9-CM Diagnosis Code	Malignancy
198.89	ICD-9-CM Diagnosis Code	Malignancy
199	ICD-9-CM Diagnosis Code	Malignancy
199.0	ICD-9-CM Diagnosis Code	Malignancy
199.1	ICD-9-CM Diagnosis Code	Malignancy
199.2	ICD-9-CM Diagnosis Code	Malignancy
200	ICD-9-CM Diagnosis Code	Malignancy
200.0	ICD-9-CM Diagnosis Code	Malignancy
200.00	ICD-9-CM Diagnosis Code	Malignancy
200.01	ICD-9-CM Diagnosis Code	Malignancy
200.02	ICD-9-CM Diagnosis Code	Malignancy
200.03	ICD-9-CM Diagnosis Code	Malignancy
200.04	ICD-9-CM Diagnosis Code	Malignancy
200.05	ICD-9-CM Diagnosis Code	Malignancy
200.06	ICD-9-CM Diagnosis Code	Malignancy
200.07	ICD-9-CM Diagnosis Code	Malignancy
200.08	ICD-9-CM Diagnosis Code	Malignancy
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200.17	ICD-9-CM Diagnosis Code	Malignancy
200.18	ICD-9-CM Diagnosis Code	Malignancy
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200.45	ICD-9-CM Diagnosis Code	Malignancy
200.46	ICD-9-CM Diagnosis Code	Malignancy
200.47	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
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200.5	ICD-9-CM Diagnosis Code	Malignancy
200.50	ICD-9-CM Diagnosis Code	Malignancy
200.51	ICD-9-CM Diagnosis Code	Malignancy
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201.08	ICD-9-CM Diagnosis Code	Malignancy
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201.10	ICD-9-CM Diagnosis Code	Malignancy
201.11	ICD-9-CM Diagnosis Code	Malignancy
201.12	ICD-9-CM Diagnosis Code	Malignancy
201.13	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
201.91	ICD-9-CM Diagnosis Code	Malignancy
201.92	ICD-9-CM Diagnosis Code	Malignancy
201.93	ICD-9-CM Diagnosis Code	Malignancy
201.94	ICD-9-CM Diagnosis Code	Malignancy
201.95	ICD-9-CM Diagnosis Code	Malignancy
201.96	ICD-9-CM Diagnosis Code	Malignancy
201.97	ICD-9-CM Diagnosis Code	Malignancy
201.98	ICD-9-CM Diagnosis Code	Malignancy
202	ICD-9-CM Diagnosis Code	Malignancy
202.0	ICD-9-CM Diagnosis Code	Malignancy
202.00	ICD-9-CM Diagnosis Code	Malignancy
202.01	ICD-9-CM Diagnosis Code	Malignancy
202.02	ICD-9-CM Diagnosis Code	Malignancy
202.03	ICD-9-CM Diagnosis Code	Malignancy
202.04	ICD-9-CM Diagnosis Code	Malignancy
202.05	ICD-9-CM Diagnosis Code	Malignancy
202.06	ICD-9-CM Diagnosis Code	Malignancy
202.07	ICD-9-CM Diagnosis Code	Malignancy
202.08	ICD-9-CM Diagnosis Code	Malignancy
202.1	ICD-9-CM Diagnosis Code	Malignancy
202.10	ICD-9-CM Diagnosis Code	Malignancy
202.11	ICD-9-CM Diagnosis Code	Malignancy
202.12	ICD-9-CM Diagnosis Code	Malignancy
202.13	ICD-9-CM Diagnosis Code	Malignancy
202.14	ICD-9-CM Diagnosis Code	Malignancy
202.15	ICD-9-CM Diagnosis Code	Malignancy
202.16	ICD-9-CM Diagnosis Code	Malignancy
202.17	ICD-9-CM Diagnosis Code	Malignancy
202.18	ICD-9-CM Diagnosis Code	Malignancy
202.2	ICD-9-CM Diagnosis Code	Malignancy
202.20	ICD-9-CM Diagnosis Code	Malignancy
202.21	ICD-9-CM Diagnosis Code	Malignancy
202.22	ICD-9-CM Diagnosis Code	Malignancy
202.23	ICD-9-CM Diagnosis Code	Malignancy
202.24	ICD-9-CM Diagnosis Code	Malignancy
202.25	ICD-9-CM Diagnosis Code	Malignancy
202.26	ICD-9-CM Diagnosis Code	Malignancy
202.27	ICD-9-CM Diagnosis Code	Malignancy
202.28	ICD-9-CM Diagnosis Code	Malignancy
202.3	ICD-9-CM Diagnosis Code	Malignancy
202.30	ICD-9-CM Diagnosis Code	Malignancy
202.31	ICD-9-CM Diagnosis Code	Malignancy
202.32	ICD-9-CM Diagnosis Code	Malignancy
202.33	ICD-9-CM Diagnosis Code	Malignancy
202.34	ICD-9-CM Diagnosis Code	Malignancy
202.35	ICD-9-CM Diagnosis Code	Malignancy
202.36	ICD-9-CM Diagnosis Code	Malignancy
202.37	ICD-9-CM Diagnosis Code	Malignancy
202.38	ICD-9-CM Diagnosis Code	Malignancy
202.4	ICD-9-CM Diagnosis Code	Malignancy
202.40	ICD-9-CM Diagnosis Code	Malignancy
202.41	ICD-9-CM Diagnosis Code	Malignancy
202.42	ICD-9-CM Diagnosis Code	Malignancy
202.43	ICD-9-CM Diagnosis Code	Malignancy
202.44	ICD-9-CM Diagnosis Code	Malignancy
202.45	ICD-9-CM Diagnosis Code	Malignancy
202.46	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
202.47	ICD-9-CM Diagnosis Code	Malignancy
202.48	ICD-9-CM Diagnosis Code	Malignancy
202.5	ICD-9-CM Diagnosis Code	Malignancy
202.50	ICD-9-CM Diagnosis Code	Malignancy
202.51	ICD-9-CM Diagnosis Code	Malignancy
202.52	ICD-9-CM Diagnosis Code	Malignancy
202.53	ICD-9-CM Diagnosis Code	Malignancy
202.54	ICD-9-CM Diagnosis Code	Malignancy
202.55	ICD-9-CM Diagnosis Code	Malignancy
202.56	ICD-9-CM Diagnosis Code	Malignancy
202.57	ICD-9-CM Diagnosis Code	Malignancy
202.58	ICD-9-CM Diagnosis Code	Malignancy
202.6	ICD-9-CM Diagnosis Code	Malignancy
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202.61	ICD-9-CM Diagnosis Code	Malignancy
202.62	ICD-9-CM Diagnosis Code	Malignancy
202.63	ICD-9-CM Diagnosis Code	Malignancy
202.64	ICD-9-CM Diagnosis Code	Malignancy
202.65	ICD-9-CM Diagnosis Code	Malignancy
202.66	ICD-9-CM Diagnosis Code	Malignancy
202.67	ICD-9-CM Diagnosis Code	Malignancy
202.68	ICD-9-CM Diagnosis Code	Malignancy
202.7	ICD-9-CM Diagnosis Code	Malignancy
202.70	ICD-9-CM Diagnosis Code	Malignancy
202.71	ICD-9-CM Diagnosis Code	Malignancy
202.72	ICD-9-CM Diagnosis Code	Malignancy
202.73	ICD-9-CM Diagnosis Code	Malignancy
202.74	ICD-9-CM Diagnosis Code	Malignancy
202.75	ICD-9-CM Diagnosis Code	Malignancy
202.76	ICD-9-CM Diagnosis Code	Malignancy
202.77	ICD-9-CM Diagnosis Code	Malignancy
202.78	ICD-9-CM Diagnosis Code	Malignancy
202.8	ICD-9-CM Diagnosis Code	Malignancy
202.80	ICD-9-CM Diagnosis Code	Malignancy
202.81	ICD-9-CM Diagnosis Code	Malignancy
202.82	ICD-9-CM Diagnosis Code	Malignancy
202.83	ICD-9-CM Diagnosis Code	Malignancy
202.84	ICD-9-CM Diagnosis Code	Malignancy
202.85	ICD-9-CM Diagnosis Code	Malignancy
202.86	ICD-9-CM Diagnosis Code	Malignancy
202.87	ICD-9-CM Diagnosis Code	Malignancy
202.88	ICD-9-CM Diagnosis Code	Malignancy
202.9	ICD-9-CM Diagnosis Code	Malignancy
202.90	ICD-9-CM Diagnosis Code	Malignancy
202.91	ICD-9-CM Diagnosis Code	Malignancy
202.92	ICD-9-CM Diagnosis Code	Malignancy
202.93	ICD-9-CM Diagnosis Code	Malignancy
202.94	ICD-9-CM Diagnosis Code	Malignancy
202.95	ICD-9-CM Diagnosis Code	Malignancy
202.96	ICD-9-CM Diagnosis Code	Malignancy
202.97	ICD-9-CM Diagnosis Code	Malignancy
202.98	ICD-9-CM Diagnosis Code	Malignancy
203	ICD-9-CM Diagnosis Code	Malignancy
203.0	ICD-9-CM Diagnosis Code	Malignancy
203.00	ICD-9-CM Diagnosis Code	Malignancy
203.01	ICD-9-CM Diagnosis Code	Malignancy
203.02	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
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203.10	ICD-9-CM Diagnosis Code	Malignancy
203.11	ICD-9-CM Diagnosis Code	Malignancy
203.12	ICD-9-CM Diagnosis Code	Malignancy
203.8	ICD-9-CM Diagnosis Code	Malignancy
203.80	ICD-9-CM Diagnosis Code	Malignancy
203.81	ICD-9-CM Diagnosis Code	Malignancy
203.82	ICD-9-CM Diagnosis Code	Malignancy
204	ICD-9-CM Diagnosis Code	Malignancy
204.0	ICD-9-CM Diagnosis Code	Malignancy
204.00	ICD-9-CM Diagnosis Code	Malignancy
204.01	ICD-9-CM Diagnosis Code	Malignancy
204.02	ICD-9-CM Diagnosis Code	Malignancy
204.1	ICD-9-CM Diagnosis Code	Malignancy
204.10	ICD-9-CM Diagnosis Code	Malignancy
204.11	ICD-9-CM Diagnosis Code	Malignancy
204.12	ICD-9-CM Diagnosis Code	Malignancy
204.2	ICD-9-CM Diagnosis Code	Malignancy
204.20	ICD-9-CM Diagnosis Code	Malignancy
204.21	ICD-9-CM Diagnosis Code	Malignancy
204.22	ICD-9-CM Diagnosis Code	Malignancy
204.8	ICD-9-CM Diagnosis Code	Malignancy
204.80	ICD-9-CM Diagnosis Code	Malignancy
204.81	ICD-9-CM Diagnosis Code	Malignancy
204.82	ICD-9-CM Diagnosis Code	Malignancy
204.9	ICD-9-CM Diagnosis Code	Malignancy
204.90	ICD-9-CM Diagnosis Code	Malignancy
204.91	ICD-9-CM Diagnosis Code	Malignancy
204.92	ICD-9-CM Diagnosis Code	Malignancy
205	ICD-9-CM Diagnosis Code	Malignancy
205.0	ICD-9-CM Diagnosis Code	Malignancy
205.00	ICD-9-CM Diagnosis Code	Malignancy
205.01	ICD-9-CM Diagnosis Code	Malignancy
205.02	ICD-9-CM Diagnosis Code	Malignancy
205.1	ICD-9-CM Diagnosis Code	Malignancy
205.10	ICD-9-CM Diagnosis Code	Malignancy
205.11	ICD-9-CM Diagnosis Code	Malignancy
205.12	ICD-9-CM Diagnosis Code	Malignancy
205.2	ICD-9-CM Diagnosis Code	Malignancy
205.20	ICD-9-CM Diagnosis Code	Malignancy
205.21	ICD-9-CM Diagnosis Code	Malignancy
205.22	ICD-9-CM Diagnosis Code	Malignancy
205.3	ICD-9-CM Diagnosis Code	Malignancy
205.30	ICD-9-CM Diagnosis Code	Malignancy
205.31	ICD-9-CM Diagnosis Code	Malignancy
205.32	ICD-9-CM Diagnosis Code	Malignancy
205.8	ICD-9-CM Diagnosis Code	Malignancy
205.80	ICD-9-CM Diagnosis Code	Malignancy
205.81	ICD-9-CM Diagnosis Code	Malignancy
205.82	ICD-9-CM Diagnosis Code	Malignancy
205.9	ICD-9-CM Diagnosis Code	Malignancy
205.90	ICD-9-CM Diagnosis Code	Malignancy
205.91	ICD-9-CM Diagnosis Code	Malignancy
205.92	ICD-9-CM Diagnosis Code	Malignancy
206	ICD-9-CM Diagnosis Code	Malignancy
206.0	ICD-9-CM Diagnosis Code	Malignancy
206.00	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
206.01	ICD-9-CM Diagnosis Code	Malignancy
206.02	ICD-9-CM Diagnosis Code	Malignancy
206.1	ICD-9-CM Diagnosis Code	Malignancy
206.10	ICD-9-CM Diagnosis Code	Malignancy
206.11	ICD-9-CM Diagnosis Code	Malignancy
206.12	ICD-9-CM Diagnosis Code	Malignancy
206.2	ICD-9-CM Diagnosis Code	Malignancy
206.20	ICD-9-CM Diagnosis Code	Malignancy
206.21	ICD-9-CM Diagnosis Code	Malignancy
206.22	ICD-9-CM Diagnosis Code	Malignancy
206.8	ICD-9-CM Diagnosis Code	Malignancy
206.80	ICD-9-CM Diagnosis Code	Malignancy
206.81	ICD-9-CM Diagnosis Code	Malignancy
206.82	ICD-9-CM Diagnosis Code	Malignancy
206.9	ICD-9-CM Diagnosis Code	Malignancy
206.90	ICD-9-CM Diagnosis Code	Malignancy
206.91	ICD-9-CM Diagnosis Code	Malignancy
206.92	ICD-9-CM Diagnosis Code	Malignancy
207	ICD-9-CM Diagnosis Code	Malignancy
207.0	ICD-9-CM Diagnosis Code	Malignancy
207.00	ICD-9-CM Diagnosis Code	Malignancy
207.01	ICD-9-CM Diagnosis Code	Malignancy
207.02	ICD-9-CM Diagnosis Code	Malignancy
207.1	ICD-9-CM Diagnosis Code	Malignancy
207.10	ICD-9-CM Diagnosis Code	Malignancy
207.11	ICD-9-CM Diagnosis Code	Malignancy
207.12	ICD-9-CM Diagnosis Code	Malignancy
207.2	ICD-9-CM Diagnosis Code	Malignancy
207.20	ICD-9-CM Diagnosis Code	Malignancy
207.21	ICD-9-CM Diagnosis Code	Malignancy
207.22	ICD-9-CM Diagnosis Code	Malignancy
207.8	ICD-9-CM Diagnosis Code	Malignancy
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207.81	ICD-9-CM Diagnosis Code	Malignancy
207.82	ICD-9-CM Diagnosis Code	Malignancy
208	ICD-9-CM Diagnosis Code	Malignancy
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208.00	ICD-9-CM Diagnosis Code	Malignancy
208.01	ICD-9-CM Diagnosis Code	Malignancy
208.02	ICD-9-CM Diagnosis Code	Malignancy
208.1	ICD-9-CM Diagnosis Code	Malignancy
208.10	ICD-9-CM Diagnosis Code	Malignancy
208.11	ICD-9-CM Diagnosis Code	Malignancy
208.12	ICD-9-CM Diagnosis Code	Malignancy
208.2	ICD-9-CM Diagnosis Code	Malignancy
208.20	ICD-9-CM Diagnosis Code	Malignancy
208.21	ICD-9-CM Diagnosis Code	Malignancy
208.22	ICD-9-CM Diagnosis Code	Malignancy
208.8	ICD-9-CM Diagnosis Code	Malignancy
208.80	ICD-9-CM Diagnosis Code	Malignancy
208.81	ICD-9-CM Diagnosis Code	Malignancy
208.82	ICD-9-CM Diagnosis Code	Malignancy
208.9	ICD-9-CM Diagnosis Code	Malignancy
208.90	ICD-9-CM Diagnosis Code	Malignancy
208.91	ICD-9-CM Diagnosis Code	Malignancy
208.92	ICD-9-CM Diagnosis Code	Malignancy
209	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
209.70	ICD-9-CM Diagnosis Code	Malignancy
209.71	ICD-9-CM Diagnosis Code	Malignancy
209.72	ICD-9-CM Diagnosis Code	Malignancy
209.73	ICD-9-CM Diagnosis Code	Malignancy
209.74	ICD-9-CM Diagnosis Code	Malignancy
209.75	ICD-9-CM Diagnosis Code	Malignancy
209.79	ICD-9-CM Diagnosis Code	Malignancy
230	ICD-9-CM Diagnosis Code	Malignancy
230.0	ICD-9-CM Diagnosis Code	Malignancy
230.1	ICD-9-CM Diagnosis Code	Malignancy
230.2	ICD-9-CM Diagnosis Code	Malignancy
230.3	ICD-9-CM Diagnosis Code	Malignancy
230.4	ICD-9-CM Diagnosis Code	Malignancy
230.5	ICD-9-CM Diagnosis Code	Malignancy
230.6	ICD-9-CM Diagnosis Code	Malignancy
230.7	ICD-9-CM Diagnosis Code	Malignancy
230.8	ICD-9-CM Diagnosis Code	Malignancy
230.9	ICD-9-CM Diagnosis Code	Malignancy
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231.0	ICD-9-CM Diagnosis Code	Malignancy
231.1	ICD-9-CM Diagnosis Code	Malignancy
231.2	ICD-9-CM Diagnosis Code	Malignancy
231.8	ICD-9-CM Diagnosis Code	Malignancy
231.9	ICD-9-CM Diagnosis Code	Malignancy
233	ICD-9-CM Diagnosis Code	Malignancy
233.0	ICD-9-CM Diagnosis Code	Malignancy
233.1	ICD-9-CM Diagnosis Code	Malignancy
233.2	ICD-9-CM Diagnosis Code	Malignancy
233.3	ICD-9-CM Diagnosis Code	Malignancy
233.30	ICD-9-CM Diagnosis Code	Malignancy
233.31	ICD-9-CM Diagnosis Code	Malignancy
233.32	ICD-9-CM Diagnosis Code	Malignancy
233.39	ICD-9-CM Diagnosis Code	Malignancy
233.4	ICD-9-CM Diagnosis Code	Malignancy
233.5	ICD-9-CM Diagnosis Code	Malignancy
233.6	ICD-9-CM Diagnosis Code	Malignancy
233.7	ICD-9-CM Diagnosis Code	Malignancy
233.9	ICD-9-CM Diagnosis Code	Malignancy
234	ICD-9-CM Diagnosis Code	Malignancy
234.0	ICD-9-CM Diagnosis Code	Malignancy
234.8	ICD-9-CM Diagnosis Code	Malignancy
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235	ICD-9-CM Diagnosis Code	Malignancy
235.0	ICD-9-CM Diagnosis Code	Malignancy
235.1	ICD-9-CM Diagnosis Code	Malignancy
235.2	ICD-9-CM Diagnosis Code	Malignancy
235.3	ICD-9-CM Diagnosis Code	Malignancy
235.4	ICD-9-CM Diagnosis Code	Malignancy
235.5	ICD-9-CM Diagnosis Code	Malignancy
235.6	ICD-9-CM Diagnosis Code	Malignancy
235.7	ICD-9-CM Diagnosis Code	Malignancy
235.8	ICD-9-CM Diagnosis Code	Malignancy
235.9	ICD-9-CM Diagnosis Code	Malignancy
236	ICD-9-CM Diagnosis Code	Malignancy
236.0	ICD-9-CM Diagnosis Code	Malignancy
236.1	ICD-9-CM Diagnosis Code	Malignancy
236.2	ICD-9-CM Diagnosis Code	Malignancy

Code	CodeType	Description
236.3	ICD-9-CM Diagnosis Code	Malignancy
236.4	ICD-9-CM Diagnosis Code	Malignancy
236.5	ICD-9-CM Diagnosis Code	Malignancy
236.6	ICD-9-CM Diagnosis Code	Malignancy
236.7	ICD-9-CM Diagnosis Code	Malignancy
236.9	ICD-9-CM Diagnosis Code	Malignancy
236.90	ICD-9-CM Diagnosis Code	Malignancy
236.91	ICD-9-CM Diagnosis Code	Malignancy
236.99	ICD-9-CM Diagnosis Code	Malignancy
237	ICD-9-CM Diagnosis Code	Malignancy
237.0	ICD-9-CM Diagnosis Code	Malignancy
237.1	ICD-9-CM Diagnosis Code	Malignancy
237.2	ICD-9-CM Diagnosis Code	Malignancy
237.3	ICD-9-CM Diagnosis Code	Malignancy
237.4	ICD-9-CM Diagnosis Code	Malignancy
237.5	ICD-9-CM Diagnosis Code	Malignancy
237.6	ICD-9-CM Diagnosis Code	Malignancy
237.7	ICD-9-CM Diagnosis Code	Malignancy
237.70	ICD-9-CM Diagnosis Code	Malignancy
237.71	ICD-9-CM Diagnosis Code	Malignancy
237.72	ICD-9-CM Diagnosis Code	Malignancy
237.9	ICD-9-CM Diagnosis Code	Malignancy
238	ICD-9-CM Diagnosis Code	Malignancy
238.0	ICD-9-CM Diagnosis Code	Malignancy
238.1	ICD-9-CM Diagnosis Code	Malignancy
238.2	ICD-9-CM Diagnosis Code	Malignancy
238.3	ICD-9-CM Diagnosis Code	Malignancy
238.4	ICD-9-CM Diagnosis Code	Malignancy
238.5	ICD-9-CM Diagnosis Code	Malignancy
238.6	ICD-9-CM Diagnosis Code	Malignancy
238.7	ICD-9-CM Diagnosis Code	Malignancy
238.71	ICD-9-CM Diagnosis Code	Malignancy
238.72	ICD-9-CM Diagnosis Code	Malignancy
238.73	ICD-9-CM Diagnosis Code	Malignancy
238.74	ICD-9-CM Diagnosis Code	Malignancy
238.75	ICD-9-CM Diagnosis Code	Malignancy
238.76	ICD-9-CM Diagnosis Code	Malignancy
238.77	ICD-9-CM Diagnosis Code	Malignancy
238.79	ICD-9-CM Diagnosis Code	Malignancy
238.8	ICD-9-CM Diagnosis Code	Malignancy
238.9	ICD-9-CM Diagnosis Code	Malignancy
239	ICD-9-CM Diagnosis Code	Malignancy
239.0	ICD-9-CM Diagnosis Code	Malignancy
239.1	ICD-9-CM Diagnosis Code	Malignancy
239.2	ICD-9-CM Diagnosis Code	Malignancy
239.3	ICD-9-CM Diagnosis Code	Malignancy
239.4	ICD-9-CM Diagnosis Code	Malignancy
239.5	ICD-9-CM Diagnosis Code	Malignancy
239.6	ICD-9-CM Diagnosis Code	Malignancy
239.7	ICD-9-CM Diagnosis Code	Malignancy
239.8	ICD-9-CM Diagnosis Code	Malignancy
239.81	ICD-9-CM Diagnosis Code	Malignancy
239.89	ICD-9-CM Diagnosis Code	Malignancy
239.9	ICD-9-CM Diagnosis Code	Malignancy
338.3	ICD-9-CM Diagnosis Code	Malignancy
789.51	ICD-9-CM Diagnosis Code	Malignancy
00.10	ICD-9-CM Procedure Code	Malignancy

Code	CodeType	Description
41.09	ICD-9-CM Procedure Code	Malignancy
99.25	ICD-9-CM Procedure Code	Malignancy
99.85	ICD-9-CM Procedure Code	Malignancy
77261	HCPCS	Malignancy
77262	HCPCS	Malignancy
77263	HCPCS	Malignancy
77280	HCPCS	Malignancy
77285	HCPCS	Malignancy
77290	HCPCS	Malignancy
77295	HCPCS	Malignancy
77299	HCPCS	Malignancy
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77305	HCPCS	Malignancy
77310	HCPCS	Malignancy
77315	HCPCS	Malignancy
77321	HCPCS	Malignancy
77326	HCPCS	Malignancy
77327	HCPCS	Malignancy
77328	HCPCS	Malignancy
77331	HCPCS	Malignancy
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77372	HCPCS	Malignancy
77373	HCPCS	Malignancy
77380	HCPCS	Malignancy
77381	HCPCS	Malignancy
77399	HCPCS	Malignancy
77401	HCPCS	Malignancy
77402	HCPCS	Malignancy
77403	HCPCS	Malignancy
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77406	HCPCS	Malignancy
77407	HCPCS	Malignancy
77408	HCPCS	Malignancy
77409	HCPCS	Malignancy
77411	HCPCS	Malignancy
77412	HCPCS	Malignancy
77413	HCPCS	Malignancy
77414	HCPCS	Malignancy
77416	HCPCS	Malignancy
77417	HCPCS	Malignancy
77418	HCPCS	Malignancy
77419	HCPCS	Malignancy
77420	HCPCS	Malignancy
77421	HCPCS	Malignancy
77422	HCPCS	Malignancy
77423	HCPCS	Malignancy
77425	HCPCS	Malignancy
77427	HCPCS	Malignancy
77430	HCPCS	Malignancy
77431	HCPCS	Malignancy

Code	CodeType	Description
77432	HCPCS	Malignancy
77435	HCPCS	Malignancy
77470	HCPCS	Malignancy
77499	HCPCS	Malignancy
77520	HCPCS	Malignancy
77522	HCPCS	Malignancy
77523	HCPCS	Malignancy
77525	HCPCS	Malignancy
77600	HCPCS	Malignancy
77605	HCPCS	Malignancy
77610	HCPCS	Malignancy
77615	HCPCS	Malignancy
77620	HCPCS	Malignancy
77750	HCPCS	Malignancy
77761	HCPCS	Malignancy
77762	HCPCS	Malignancy
77763	HCPCS	Malignancy
77776	HCPCS	Malignancy
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77778	HCPCS	Malignancy
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77782	HCPCS	Malignancy
77783	HCPCS	Malignancy
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77786	HCPCS	Malignancy
77787	HCPCS	Malignancy
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77791	HCPCS	Malignancy
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96423	HCPCS	Malignancy
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96450	HCPCS	Malignancy
96520	HCPCS	Malignancy
96521	HCPCS	Malignancy
96522	HCPCS	Malignancy
96523	HCPCS	Malignancy

Code	CodeType	Description
96530	HCPCS	Malignancy
96542	HCPCS	Malignancy
96545	HCPCS	Malignancy
96549	HCPCS	Malignancy
C8953	HCPCS	Malignancy
C8954	HCPCS	Malignancy
C8955	HCPCS	Malignancy
C9414	HCPCS	Malignancy
C9415	HCPCS	Malignancy
C9416	HCPCS	Malignancy
C9417	HCPCS	Malignancy
C9418	HCPCS	Malignancy
C9419	HCPCS	Malignancy
C9420	HCPCS	Malignancy
C9421	HCPCS	Malignancy
C9422	HCPCS	Malignancy
C9423	HCPCS	Malignancy
C9424	HCPCS	Malignancy
C9425	HCPCS	Malignancy
C9426	HCPCS	Malignancy
C9427	HCPCS	Malignancy
C9428	HCPCS	Malignancy
C9429	HCPCS	Malignancy
C9430	HCPCS	Malignancy
C9431	HCPCS	Malignancy
C9432	HCPCS	Malignancy
C9433	HCPCS	Malignancy
C9434	HCPCS	Malignancy
C9435	HCPCS	Malignancy
C9436	HCPCS	Malignancy
C9437	HCPCS	Malignancy
G0210	HCPCS	Malignancy
G0211	HCPCS	Malignancy
G0212	HCPCS	Malignancy
G0215	HCPCS	Malignancy
G0223	HCPCS	Malignancy
G0224	HCPCS	Malignancy
G0225	HCPCS	Malignancy
G0226	HCPCS	Malignancy
G0227	HCPCS	Malignancy
G0228	HCPCS	Malignancy
G0231	HCPCS	Malignancy
G0233	HCPCS	Malignancy
G0234	HCPCS	Malignancy
G0252	HCPCS	Malignancy
G0253	HCPCS	Malignancy
G0254	HCPCS	Malignancy
G0292	HCPCS	Malignancy
G0296	HCPCS	Malignancy
G0355	HCPCS	Malignancy
G0359	HCPCS	Malignancy
G0361	HCPCS	Malignancy
G8371	HCPCS	Malignancy
G8372	HCPCS	Malignancy
G8373	HCPCS	Malignancy
G8374	HCPCS	Malignancy
G8376	HCPCS	Malignancy

Code	CodeType	Description
G8377	HCPCS	Malignancy
G8380	HCPCS	Malignancy
G8381	HCPCS	Malignancy
G8389	HCPCS	Malignancy
G8464	HCPCS	Malignancy
G8465	HCPCS	Malignancy
G9021	HCPCS	Malignancy
G9022	HCPCS	Malignancy
G9023	HCPCS	Malignancy
G9024	HCPCS	Malignancy
G9025	HCPCS	Malignancy
G9026	HCPCS	Malignancy
G9027	HCPCS	Malignancy
G9028	HCPCS	Malignancy
G9029	HCPCS	Malignancy
G9030	HCPCS	Malignancy
G9031	HCPCS	Malignancy
G9032	HCPCS	Malignancy
G9050	HCPCS	Malignancy
G9051	HCPCS	Malignancy
G9052	HCPCS	Malignancy
G9053	HCPCS	Malignancy
G9054	HCPCS	Malignancy
G9063	HCPCS	Malignancy
G9064	HCPCS	Malignancy
G9065	HCPCS	Malignancy
G9066	HCPCS	Malignancy
G9067	HCPCS	Malignancy
G9069	HCPCS	Malignancy
G9070	HCPCS	Malignancy
G9071	HCPCS	Malignancy
G9072	HCPCS	Malignancy
G9073	HCPCS	Malignancy
G9074	HCPCS	Malignancy
G9075	HCPCS	Malignancy
G9076	HCPCS	Malignancy
G9077	HCPCS	Malignancy
G9078	HCPCS	Malignancy
G9079	HCPCS	Malignancy
G9080	HCPCS	Malignancy
G9081	HCPCS	Malignancy
G9082	HCPCS	Malignancy
G9083	HCPCS	Malignancy
G9084	HCPCS	Malignancy
G9085	HCPCS	Malignancy
G9086	HCPCS	Malignancy
G9087	HCPCS	Malignancy
G9088	HCPCS	Malignancy
G9089	HCPCS	Malignancy
G9090	HCPCS	Malignancy
G9091	HCPCS	Malignancy
G9092	HCPCS	Malignancy
G9093	HCPCS	Malignancy
G9094	HCPCS	Malignancy
G9095	HCPCS	Malignancy
G9096	HCPCS	Malignancy
G9097	HCPCS	Malignancy

Code	CodeType	Description
G9098	HCPCS	Malignancy
G9099	HCPCS	Malignancy
G9100	HCPCS	Malignancy
G9101	HCPCS	Malignancy
G9102	HCPCS	Malignancy
G9103	HCPCS	Malignancy
G9104	HCPCS	Malignancy
G9105	HCPCS	Malignancy
G9106	HCPCS	Malignancy
G9107	HCPCS	Malignancy
G9108	HCPCS	Malignancy
G9109	HCPCS	Malignancy
G9110	HCPCS	Malignancy
G9111	HCPCS	Malignancy
G9112	HCPCS	Malignancy
G9113	HCPCS	Malignancy
G9114	HCPCS	Malignancy
G9115	HCPCS	Malignancy
G9116	HCPCS	Malignancy
G9117	HCPCS	Malignancy
Coronary Revascularization		
V4581	ICD-9-CM Diagnosis Code	Coronary Revascularization
V4582	ICD-9-CM Diagnosis Code	Coronary Revascularization
V4588	ICD-9-CM Diagnosis Code	Coronary Revascularization
00.66	ICD-9-CM Procedure Code	Coronary Revascularization
36.0	ICD-9-CM Procedure Code	Coronary Revascularization
36.03	ICD-9-CM Procedure Code	Coronary Revascularization
36.04	ICD-9-CM Procedure Code	Coronary Revascularization
36.06	ICD-9-CM Procedure Code	Coronary Revascularization
36.07	ICD-9-CM Procedure Code	Coronary Revascularization
36.09	ICD-9-CM Procedure Code	Coronary Revascularization
36.1	ICD-9-CM Procedure Code	Coronary Revascularization
36.10	ICD-9-CM Procedure Code	Coronary Revascularization
36.11	ICD-9-CM Procedure Code	Coronary Revascularization
36.12	ICD-9-CM Procedure Code	Coronary Revascularization
36.13	ICD-9-CM Procedure Code	Coronary Revascularization
36.14	ICD-9-CM Procedure Code	Coronary Revascularization
36.15	ICD-9-CM Procedure Code	Coronary Revascularization
36.16	ICD-9-CM Procedure Code	Coronary Revascularization
36.17	ICD-9-CM Procedure Code	Coronary Revascularization
36.19	ICD-9-CM Procedure Code	Coronary Revascularization
36.2	ICD-9-CM Procedure Code	Coronary Revascularization
36.3	ICD-9-CM Procedure Code	Coronary Revascularization
36.31	ICD-9-CM Procedure Code	Coronary Revascularization
36.32	ICD-9-CM Procedure Code	Coronary Revascularization
36.33	ICD-9-CM Procedure Code	Coronary Revascularization
36.34	ICD-9-CM Procedure Code	Coronary Revascularization
36.39	ICD-9-CM Procedure Code	Coronary Revascularization
00566	HCPCS	Coronary Revascularization
33510	HCPCS	Coronary Revascularization
33511	HCPCS	Coronary Revascularization
33512	HCPCS	Coronary Revascularization
33513	HCPCS	Coronary Revascularization
33514	HCPCS	Coronary Revascularization
33516	HCPCS	Coronary Revascularization
33517	HCPCS	Coronary Revascularization
33518	HCPCS	Coronary Revascularization

Code	CodeType	Description
33519	HCPCS	Coronary Revascularization
33521	HCPCS	Coronary Revascularization
33522	HCPCS	Coronary Revascularization
33523	HCPCS	Coronary Revascularization
33530	HCPCS	Coronary Revascularization
33533	HCPCS	Coronary Revascularization
33534	HCPCS	Coronary Revascularization
33535	HCPCS	Coronary Revascularization
33536	HCPCS	Coronary Revascularization
33572	HCPCS	Coronary Revascularization
92973	HCPCS	Coronary Revascularization
92975	HCPCS	Coronary Revascularization
92977	HCPCS	Coronary Revascularization
92980	HCPCS	Coronary Revascularization
92981	HCPCS	Coronary Revascularization
92982	HCPCS	Coronary Revascularization
92984	HCPCS	Coronary Revascularization
92995	HCPCS	Coronary Revascularization
92996	HCPCS	Coronary Revascularization
G8158	HCPCS	Coronary Revascularization
G8159	HCPCS	Coronary Revascularization
G8161	HCPCS	Coronary Revascularization
G8162	HCPCS	Coronary Revascularization
G8163	HCPCS	Coronary Revascularization
G8164	HCPCS	Coronary Revascularization
G8165	HCPCS	Coronary Revascularization
G8166	HCPCS	Coronary Revascularization
G8167	HCPCS	Coronary Revascularization
G8170	HCPCS	Coronary Revascularization
G8171	HCPCS	Coronary Revascularization
G8172	HCPCS	Coronary Revascularization
Other Ischemic Heart Disease		
411	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
411.0	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
411.1	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
411.8	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
411.81	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
411.89	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
413	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
413.0	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
413.1	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
413.9	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.0	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.00	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.01	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.02	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.03	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.04	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.05	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.06	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.07	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.1	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.10	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.11	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.12	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.19	ICD-9-CM Procedure Code	Other Ischemic Heart Disease

Code	CodeType	Description
414.2	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.3	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.8	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
414.9	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.2	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.5	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.6	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.7	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.71	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.79	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
429.9	ICD-9-CM Procedure Code	Other Ischemic Heart Disease
G8033	HCPCS	Other Ischemic Heart Disease
G8034	HCPCS	Other Ischemic Heart Disease
G8035	HCPCS	Other Ischemic Heart Disease
G8036	HCPCS	Other Ischemic Heart Disease
G8037	HCPCS	Other Ischemic Heart Disease
G8038	HCPCS	Other Ischemic Heart Disease
G8039	HCPCS	Other Ischemic Heart Disease
G8040	HCPCS	Other Ischemic Heart Disease
G8041	HCPCS	Other Ischemic Heart Disease
Cerebral Revascularization		
00.61	ICD-9-CM Procedure Code	Cerebral Revascularization
00.62	ICD-9-CM Procedure Code	Cerebral Revascularization
00.63	ICD-9-CM Procedure Code	Cerebral Revascularization
00.64	ICD-9-CM Procedure Code	Cerebral Revascularization
00.65	ICD-9-CM Procedure Code	Cerebral Revascularization
38.01	ICD-9-CM Procedure Code	Cerebral Revascularization
38.02	ICD-9-CM Procedure Code	Cerebral Revascularization
38.11	ICD-9-CM Procedure Code	Cerebral Revascularization
38.12	ICD-9-CM Procedure Code	Cerebral Revascularization
39.74	ICD-9-CM Procedure Code	Cerebral Revascularization
35301	HCPCS	Cerebral Revascularization
35390	HCPCS	Cerebral Revascularization
35501	HCPCS	Cerebral Revascularization
35506	HCPCS	Cerebral Revascularization
35507	HCPCS	Cerebral Revascularization
35508	HCPCS	Cerebral Revascularization
35509	HCPCS	Cerebral Revascularization
35601	HCPCS	Cerebral Revascularization
35606	HCPCS	Cerebral Revascularization
35642	HCPCS	Cerebral Revascularization
35701	HCPCS	Cerebral Revascularization
61711	HCPCS	Cerebral Revascularization
Transient Ischemic Attack (TIA)		
435	ICD-9-CM Diagnosis Code	TIA
435.0	ICD-9-CM Diagnosis Code	TIA
435.1	ICD-9-CM Diagnosis Code	TIA
435.2	ICD-9-CM Diagnosis Code	TIA
435.3	ICD-9-CM Diagnosis Code	TIA
435.8	ICD-9-CM Diagnosis Code	TIA
435.9	ICD-9-CM Diagnosis Code	TIA
Other Cerebrovascular Disease		
437	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.0	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.1	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.2	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.3	ICD-9-CM Diagnosis Code	Other Cerebro Disease

Code	CodeType	Description
437.4	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.5	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.6	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.7	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.8	ICD-9-CM Diagnosis Code	Other Cerebro Disease
437.9	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.0	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.1	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.10	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.11	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.12	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.13	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.14	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.19	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.2	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.20	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.21	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.22	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.3	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.30	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.31	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.32	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.4	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.40	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.41	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.42	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.5	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.50	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.51	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.52	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.53	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.6	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.7	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.8	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.81	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.82	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.83	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.84	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.85	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.89	ICD-9-CM Diagnosis Code	Other Cerebro Disease
438.9	ICD-9-CM Diagnosis Code	Other Cerebro Disease
V1254	ICD-9-CM Diagnosis Code	Other Cerebro Disease
Urinary Incontinence		
788.3	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.30	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.31	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.32	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.33	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.34	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.35	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.36	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.37	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.38	ICD-9-CM Diagnosis Code	Urinary Incontinence
788.39	ICD-9-CM Diagnosis Code	Urinary Incontinence
Hospitalized Pneumonia		
481	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia

Code	CodeType	Description
483	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia
483.0	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia
483.1	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia
483.8	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia
485	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia
486	ICD-9-CM Diagnosis Code	Hospitalized Pneumonia
Cardioversion		
99.61	ICD-9-CM Procedure Code	Cardioversion
99.62	ICD-9-CM Procedure Code	Cardioversion
92960	HCPCS	Cardioversion
92961	HCPCS	Cardioversion
Cardioablation		
37.33	ICD-9-CM Procedure Code	Cardioablation
37.34	ICD-9-CM Procedure Code	Cardioablation
93651	HCPCS	Cardioablation
C1732	HCPCS	Cardioablation
C1733	HCPCS	Cardioablation
C2630	HCPCS	Cardioablation