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

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Overview for Request: dth_ahr_wp001 (Report 2 of 2)

Request ID: dth_ahr_wp001_nsdv_v01

Request Description: We developed estimates of crude and age-standardized rates of myocardial infarction (MI) related death, stroke-related death, and sudden cardiac death (SCD) per 100,000 person-years among US adults, using various algorithms and analyses to account for the time frame and care setting in which the patient died, and the way in which the patient's death was recorded. This is report 2 of 2. This report contains data from Data Partners that populate the Cause of Death (COD) table. Report 1 contains data from Data Partners that do not populate the Cause of Death (COD) table.

Sentinel Modular Program Tool Used: Ad hoc program

Data Source: We included data from 11 Data Partners contributing to the Sentinel Distributed Database (SDD) that use the COD table. For SCD algorithm #2, we aggregated data for nine out of 11 Data Partners due to two Data Partners not using state death certificates in their COD Table. We distributed this request on January 25, 2018 and included data from January 1, 2000 to January 17, 2018. See Appendix A for a list of the dates of available data for each Data Partner.

Cohort Eligibility Criteria: We included patients of all ages, stratified into the following age groups: 0-44, 45-54, 55-64, 65-74, 75-84, and 85+ years. We required eligible patients to be enrolled in plans with medical, drug, or medical and drug coverage for 183 days before their death date, with allowable gaps in coverage of up to 45 days.

Outcomes of Interest: We evaluated algorithms for three separate outcomes: MI-related death, stroke-related death and sudden cardiac death.

MI-Related Death

The primary analysis (see Table 1) evaluated patients who had a recorded death date within the 30 days after an inpatient admission or encounter date (ADate). The secondary analysis (see Table 2) evaluated patients who had a death date recorded within the five days after the ADate. In both analyses, we restricted diagnosis codes for MI to Inpatient (IP) and Emergency Department (ED) settings in the Encounter Table.

See Appendix B for a list of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes used to define MI.

Stroke-Related Death

Main Analysis: The primary analysis (see Table 3) evaluated patients who had a recorded death date within the 28 days after the ADate. The secondary analysis (see Table 4) evaluated patients whose death date occurred within five days after the ADate. We restricted diagnosis codes for stroke-related death to IP and ED settings in the Encounter Table.

Sensitivity Analysis: We considered diagnosis codes for stroke from IP, ED and Non-Acute Institutional Stay (IS) encounters. The primary analysis (see Table 5) evaluated patients whose death date fell within the 28 days after the ADate.

The secondary analysis (see Table 6) evaluated patients whose death date fell within the five days after the ADate.

See Appendix C for a list of ICD-9-CM and ICD-10-CM diagnosis codes used to define stroke.

Sudden Cardiac Death

Algorithm #1: We identified diagnosis codes for SCD using the primary diagnosis position on IP claims occurring on the day of or day after the death date. See Table 7 for crude death rates and age-standardized prevalence of SCD using algorithm #1, and Appendix D for a list of ICD-9-CM and ICD-10-CM diagnosis codes used to define SCD in algorithm #1.

Algorithm #2: We evaluated algorithm #2 at Sentinel Data Partners that use COD Table and State death certificates to populate their death information. Two Data Partners from a total of 11 that utilized the COD Table were observed to not use the State death certificates, which is why they were not included in Table 8.

Results: We tabulated code and member counts overall, as well as stratified by age group, sex, year, race, and Hispanic ethnicity. Additionally, outcome rates were presented per 100,000 member-years among all deaths and by age standardized death rate.

Limitations: Algorithms used to define exposures, outcomes, and treatment are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitation in mind.

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

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Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
All	All	All	All	All	321,100	161,729	381,314	161,027	932,689	932,689	128,845,413	24,712,645	125.5	0.2	123.8	381,314	161,027
<45	All	All	All	All	2,985	1,762	6,152	2,580	52,215	52,215	76,679,294.5	18,007,648	2.3	0.0	.	6,152	2,580
45-54	All	All	All	All	11,174	5,932	19,958	8,165	63,852	63,852	19,081,661.5	5,278,030	31.1	0.1	.	19,958	8,165
55-64	All	All	All	All	34,267	17,229	44,750	18,321	118,234	118,234	16,401,336.4	4,174,214	105.0	0.1	.	44,750	18,321
65-74	All	All	All	All	70,582	34,522	73,654	30,625	172,116	172,116	9,534,659.2	2,279,937	362.1	0.2	.	73,654	30,625
75-84	All	All	All	All	108,490	53,256	114,730	48,585	250,827	250,827	5,204,085.1	1,169,299	1023.3	0.2	.	114,730	48,585
85+	All	All	All	All	93,602	49,028	122,070	52,751	275,445	275,445	1,942,192.3	512,834	2524.4	0.2	.	122,070	52,751
All	F	All	All	All	141,960	76,352	182,414	77,899	498,316	498,316	68,304,045.5	12,757,524	111.8	0.2	.	182,414	77,899
All	M	All	All	All	179,140	85,377	198,900	83,128	434,373	434,373	60,541,367.8	11,955,121	141.0	0.2	.	198,900	83,128
<45	F	All	All	All	1,318	778	2,062	878	22,299	22,299	39,900,261.3	9,189,785	1.9	0.0	.	2,062	878
<45	M	All	All	All	1,667	984	4,090	1,702	29,916	29,916	36,779,033.2	8,817,863	2.7	0.0	.	4,090	1,702
45-54	F	All	All	All	4,209	2,378	6,428	2,666	27,965	27,965	10,080,566.2	2,748,205	23.6	0.1	.	6,428	2,666
45-54	M	All	All	All	6,965	3,554	13,530	5,499	35,887	35,887	9,001,095.3	2,529,825	39.5	0.1	.	13,530	5,499
55-64	F	All	All	All	12,400	6,735	15,130	6,344	52,024	52,024	8,737,613.7	2,192,926	77.1	0.1	.	15,130	6,344
55-64	M	All	All	All	21,867	10,494	29,620	11,977	66,210	66,210	7,663,722.8	1,981,288	136.9	0.2	.	29,620	11,977
65-74	F	All	All	All	27,677	14,395	28,770	12,120	81,222	81,222	5,201,021.6	1,223,070	276.8	0.2	.	28,770	12,120
65-74	M	All	All	All	42,905	20,127	44,884	18,505	90,894	90,894	4,333,637.6	1,056,867	464.4	0.2	.	44,884	18,505
75-84	F	All	All	All	46,914	24,524	54,230	23,052	133,478	133,478	3,064,193.8	676,985	800.3	0.2	.	54,230	23,052
75-84	M	All	All	All	61,576	28,732	60,500	25,533	117,349	117,349	2,139,891.2	492,314	1342.7	0.2	.	60,500	25,533
85+	F	All	All	All	49,442	27,542	75,794	32,839	181,328	181,328	1,319,430.3	337,545	2087.4	0.2	.	75,794	32,839
85+	M	All	All	All	44,160	21,486	46,276	19,912	94,117	94,117	622,762.0	175,289	3450.1	0.2	.	46,276	19,912
All	All	2000	All	All	6,555	3,725	12,696	5,228	24,352	24,352	3,265,482.3	7,070,831	114.1	0.2	126.1	12,696	5,228
All	All	2001	All	All	14,090	8,038	26,142	10,847	50,915	50,915	6,483,143.4	7,612,138	124.0	0.2	135.4	26,142	10,847
All	All	2002	All	All	15,286	8,728	27,992	11,689	53,216	53,216	6,546,876.2	7,743,773	133.3	0.2	142.6	27,992	11,689
All	All	2003	All	All	15,696	8,959	27,890	11,699	54,738	54,738	6,525,866.5	7,738,499	137.3	0.2	142.4	27,890	11,699
All	All	2004	All	All	15,792	9,004	27,416	11,468	55,151	55,151	6,820,683.9	8,226,065	132.0	0.2	133.8	27,416	11,468
All	All	2005	All	All	17,156	9,457	27,716	11,617	57,905	57,905	7,307,556.6	8,830,118	129.4	0.2	130.3	27,716	11,617
All	All	2006	All	All	16,391	9,124	25,896	10,908	56,139	56,139	7,528,293.6	8,844,496	121.2	0.2	122.7	25,896	10,908
All	All	2007	All	All	16,878	9,262	24,190	10,137	54,242	54,242	7,549,243.6	8,824,893	122.7	0.2	126.1	24,190	10,137
All	All	2008	All	All	18,272	9,851	23,838	10,061	54,737	54,737	7,649,117.1	8,987,418	128.8	0.2	130.9	23,838	10,061
All	All	2009	All	All	17,557	9,305	23,206	9,916	54,251	54,251	7,747,500.9	9,091,018	120.1	0.2	120.7	23,206	9,916
All	All	2010	All	All	19,595	9,701	22,812	9,689	54,485	54,485	7,918,332.3	9,256,124	122.5	0.2	122.8	22,812	9,689
All	All	2011	All	All	20,614	10,114	22,748	9,698	56,226	56,226	8,120,707.1	9,454,662	124.5	0.2	122.5	22,748	9,698
All	All	2012	All	All	21,956	10,366	23,678	10,039	58,704	58,704	8,263,418.9	9,527,543	125.4	0.2	119.6	23,678	10,039
All	All	2013	All	All	24,164	11,192	23,210	9,899	61,579	61,579	8,278,595.6	9,579,268	135.2	0.2	125.0	23,210	9,899
All	All	2014	All	All	25,075	11,249	22,366	9,509	62,002	62,002	8,473,785.2	9,889,824	132.8	0.2	122.7	22,366	9,509
All	All	2015	All	All	25,432	11,481	18,634	8,225	62,118	62,118	8,784,751.0	10,235,706	130.7	0.2	124.5	18,634	8,225
All	All	2016	All	All	19,422	7,828	820	366	39,919	39,919	7,602,857.6	8,929,174	103.0	0.2	94.6	820	366

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All	All	2017	All	All	11,169	4,345	64	32	22,010	22,010	3,979,201.6	8,349,076	109.2	0.2	95.2	64	32
<45	All	2000	All	All	74	39	204	87	1,750	1,750	2,073,595.0	4,606,003	1.9	0.0	.	204	87
<45	All	2001	All	All	156	88	514	217	3,569	3,569	4,103,577.0	5,038,056	2.1	0.0	.	514	217
<45	All	2002	All	All	191	125	562	237	3,796	3,796	4,094,231.7	5,074,975	3.1	0.0	.	562	237
<45	All	2003	All	All	187	120	540	231	3,560	3,560	4,016,995.2	5,002,994	3.0	0.0	.	540	231
<45	All	2004	All	All	163	98	490	206	3,624	3,624	4,135,389.1	5,217,502	2.4	0.0	.	490	206
<45	All	2005	All	All	165	103	486	201	3,596	3,596	4,388,056.8	5,561,833	2.3	0.0	.	486	201
<45	All	2006	All	All	139	97	458	197	3,308	3,308	4,526,700.5	5,580,565	2.1	0.0	.	458	197
<45	All	2007	All	All	205	126	420	173	3,319	3,319	4,528,797.5	5,565,264	2.8	0.0	.	420	173
<45	All	2008	All	All	174	107	354	147	3,041	3,041	4,565,132.0	5,648,968	2.3	0.0	.	354	147
<45	All	2009	All	All	173	106	344	143	3,037	3,037	4,607,923.1	5,668,124	2.3	0.0	.	344	143
<45	All	2010	All	All	180	99	292	117	2,944	2,944	4,704,546.2	5,747,234	2.1	0.0	.	292	117
<45	All	2011	All	All	195	111	314	128	2,870	2,870	4,804,235.3	5,839,797	2.3	0.0	.	314	128
<45	All	2012	All	All	223	115	316	134	3,014	3,014	4,862,280.7	5,848,313	2.4	0.0	.	316	134
<45	All	2013	All	All	202	115	278	115	2,906	2,906	4,823,751.9	5,825,977	2.4	0.0	.	278	115
<45	All	2014	All	All	220	123	292	122	2,997	2,997	4,944,989.1	5,982,480	2.5	0.0	.	292	122
<45	All	2015	All	All	205	116	286	124	3,188	3,188	5,171,892.8	6,236,216	2.2	0.0	.	286	124
<45	All	2016	All	All	104	53	2	1	1,151	1,151	4,174,907.5	5,154,482	1.3	0.0	.	2	1
<45	All	2017	All	All	29	21	0	0	545	545	2,152,293.1	4,691,375	1.0	0.0	.	0	0
45-54	All	2000	All	All	344	167	684	272	1,777	1,777	483,633.7	1,064,035	34.5	0.1	.	684	272
45-54	All	2001	All	All	630	356	1,486	590	3,834	3,834	961,689.9	1,171,847	37.0	0.1	.	1,486	590
45-54	All	2002	All	All	668	380	1,454	596	3,987	3,987	973,206.0	1,202,357	39.0	0.1	.	1,454	596
45-54	All	2003	All	All	604	350	1,526	626	4,211	4,211	980,351.5	1,210,341	35.7	0.1	.	1,526	626
45-54	All	2004	All	All	535	332	1,544	616	4,195	4,195	1,039,798.8	1,314,546	31.9	0.1	.	1,544	616
45-54	All	2005	All	All	644	358	1,598	650	4,457	4,457	1,127,941.0	1,432,126	31.7	0.1	.	1,598	650
45-54	All	2006	All	All	644	340	1,366	554	4,268	4,268	1,159,523.2	1,424,199	29.3	0.1	.	1,366	554
45-54	All	2007	All	All	647	373	1,312	538	4,022	4,022	1,169,380.6	1,428,804	31.9	0.1	.	1,312	538
45-54	All	2008	All	All	629	367	1,288	532	4,085	4,085	1,179,371.2	1,448,806	31.1	0.1	.	1,288	532
45-54	All	2009	All	All	765	406	1,192	503	4,082	4,082	1,182,473.8	1,459,501	34.3	0.1	.	1,192	503
45-54	All	2010	All	All	705	375	1,228	510	3,782	3,782	1,188,540.8	1,466,377	31.6	0.1	.	1,228	510
45-54	All	2011	All	All	708	377	1,068	448	3,923	3,923	1,194,682.6	1,466,473	31.6	0.1	.	1,068	448
45-54	All	2012	All	All	766	396	1,194	481	3,949	3,949	1,187,165.6	1,444,840	33.4	0.1	.	1,194	481
45-54	All	2013	All	All	743	400	1,062	434	3,694	3,694	1,168,902.9	1,432,936	34.2	0.1	.	1,062	434
45-54	All	2014	All	All	757	354	978	400	3,762	3,762	1,173,795.0	1,481,403	30.2	0.1	.	978	400
45-54	All	2015	All	All	724	376	966	409	3,682	3,682	1,198,540.1	1,507,312	31.4	0.1	.	966	409
45-54	All	2016	All	All	475	156	12	6	1,451	1,451	1,131,209.2	1,418,332	13.8	0.1	.	12	6
45-54	All	2017	All	All	186	69	0	0	691	691	581,455.6	1,271,358	11.9	0.1	.	0	0
55-64	All	2000	All	All	799	447	1,644	654	3,186	3,186	325,118.1	707,840	137.5	0.1	.	1,644	654

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55-64	All	2001	All	All	1,726	916	2,992	1,215	6,277	6,277	652,600.4	787,087	140.4	0.1	.	2,992	1,215
55-64	All	2002	All	All	1,754	971	3,354	1,354	6,727	6,727	694,788.8	839,368	139.8	0.1	.	3,354	1,354
55-64	All	2003	All	All	1,747	988	3,284	1,320	6,851	6,851	728,067.1	877,072	135.7	0.1	.	3,284	1,320
55-64	All	2004	All	All	1,745	1,000	3,116	1,267	7,045	7,045	796,195.3	983,173	125.6	0.1	.	3,116	1,267
55-64	All	2005	All	All	1,768	972	3,258	1,324	7,336	7,336	883,694.4	1,091,422	110.0	0.1	.	3,258	1,324
55-64	All	2006	All	All	1,879	990	2,974	1,228	7,231	7,231	923,240.3	1,103,706	107.2	0.1	.	2,974	1,228
55-64	All	2007	All	All	2,026	1,066	3,046	1,230	7,285	7,285	956,296.2	1,135,772	111.5	0.1	.	3,046	1,230
55-64	All	2008	All	All	2,231	1,115	2,804	1,161	7,267	7,267	988,210.8	1,177,212	112.8	0.2	.	2,804	1,161
55-64	All	2009	All	All	2,089	1,085	2,754	1,131	7,262	7,262	1,019,775.3	1,222,057	106.4	0.1	.	2,754	1,131
55-64	All	2010	All	All	2,052	1,035	2,598	1,076	7,127	7,127	1,056,953.1	1,263,951	97.9	0.1	.	2,598	1,076
55-64	All	2011	All	All	2,193	1,071	2,556	1,053	7,450	7,450	1,098,628.9	1,312,606	97.5	0.1	.	2,556	1,053
55-64	All	2012	All	All	2,250	1,102	2,790	1,163	7,716	7,716	1,113,653.9	1,328,956	99.0	0.1	.	2,790	1,163
55-64	All	2013	All	All	2,390	1,166	2,476	1,022	7,715	7,715	1,120,405.4	1,339,327	104.1	0.2	.	2,476	1,022
55-64	All	2014	All	All	2,534	1,167	2,592	1,063	7,843	7,843	1,141,228.3	1,405,010	102.3	0.1	.	2,592	1,063
55-64	All	2015	All	All	2,686	1,226	2,464	1,038	7,954	7,954	1,174,447.8	1,438,785	104.4	0.2	.	2,464	1,038
55-64	All	2016	All	All	1,549	603	42	19	3,897	3,897	1,132,078.5	1,386,830	53.3	0.2	.	42	19
55-64	All	2017	All	All	849	309	6	3	2,065	2,065	595,954.0	1,277,855	51.8	0.1	.	6	3
65-74	All	2000	All	All	1,582	871	2,572	1,058	4,852	4,852	216,573.8	468,090	402.2	0.2	.	2,572	1,058
65-74	All	2001	All	All	3,557	1,998	5,424	2,230	10,259	10,259	429,720.2	502,987	465.0	0.2	.	5,424	2,230
65-74	All	2002	All	All	3,589	2,011	5,776	2,396	10,325	10,325	436,159.6	512,859	461.1	0.2	.	5,776	2,396
65-74	All	2003	All	All	3,568	2,044	5,624	2,336	10,502	10,502	440,649.3	519,381	463.9	0.2	.	5,624	2,336
65-74	All	2004	All	All	3,537	1,987	5,512	2,243	10,377	10,377	463,511.5	555,529	428.7	0.2	.	5,512	2,243
65-74	All	2005	All	All	3,707	2,034	5,446	2,255	10,722	10,722	491,175.9	588,338	414.1	0.2	.	5,446	2,255
65-74	All	2006	All	All	3,473	1,887	4,896	2,035	10,004	10,004	494,011.3	583,378	382.0	0.2	.	4,896	2,035
65-74	All	2007	All	All	3,439	1,867	4,246	1,754	9,501	9,501	483,614.2	568,431	386.1	0.2	.	4,246	1,754
65-74	All	2008	All	All	4,105	2,108	4,532	1,873	9,760	9,760	499,153.6	582,044	422.3	0.2	.	4,532	1,873
65-74	All	2009	All	All	3,825	1,912	4,156	1,740	9,381	9,381	515,122.2	605,785	371.2	0.2	.	4,156	1,740
65-74	All	2010	All	All	4,199	2,002	4,032	1,683	9,337	9,337	537,059.1	630,043	372.8	0.2	.	4,032	1,683
65-74	All	2011	All	All	4,453	2,134	4,150	1,736	9,777	9,777	576,117.9	685,809	370.4	0.2	.	4,150	1,736
65-74	All	2012	All	All	4,660	2,154	4,590	1,901	10,653	10,653	635,841.5	750,509	338.8	0.2	.	4,590	1,901
65-74	All	2013	All	All	5,228	2,261	4,320	1,822	11,288	11,288	687,697.0	808,601	328.8	0.2	.	4,320	1,822
65-74	All	2014	All	All	5,494	2,385	4,474	1,880	11,773	11,773	730,735.4	852,779	326.4	0.2	.	4,474	1,880
65-74	All	2015	All	All	5,598	2,435	3,712	1,595	11,728	11,728	758,654.9	891,153	321.0	0.2	.	3,712	1,595
65-74	All	2016	All	All	4,162	1,554	172	78	7,677	7,677	730,208.9	846,716	212.8	0.2	.	172	78
65-74	All	2017	All	All	2,406	878	20	10	4,200	4,200	408,652.9	821,161	214.9	0.2	.	20	10
75-84	All	2000	All	All	2,266	1,264	3,956	1,646	6,782	6,782	127,497.8	275,461	991.4	0.2	.	3,956	1,646
75-84	All	2001	All	All	4,889	2,731	8,276	3,449	14,229	14,229	256,665.1	300,582	1064.0	0.2	.	8,276	3,449
75-84	All	2002	All	All	5,508	3,051	8,764	3,665	14,903	14,903	266,035.4	312,660	1146.8	0.2	.	8,764	3,665

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category			Race		MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year		Hispanic													
75-84	All	2003	All	All	5,559	3,102	8,666	3,674	15,498	15,498	273,442.1	320,077	1134.4	0.2	.	8,666	3,674
75-84	All	2004	All	All	5,741	3,180	8,654	3,667	15,558	15,558	291,988.8	349,358	1089.1	0.2	.	8,654	3,667
75-84	All	2005	All	All	6,252	3,347	8,736	3,659	16,262	16,262	313,036.7	368,763	1069.2	0.2	.	8,736	3,659
75-84	All	2006	All	All	5,595	3,102	8,060	3,416	15,905	15,905	316,291.7	368,889	980.7	0.2	.	8,060	3,416
75-84	All	2007	All	All	5,857	3,074	7,378	3,108	14,747	14,747	301,238.9	349,161	1020.5	0.2	.	7,378	3,108
75-84	All	2008	All	All	5,955	3,184	7,064	2,972	14,762	14,762	302,581.8	347,822	1052.3	0.2	.	7,064	2,972
75-84	All	2009	All	All	5,698	2,997	7,010	2,994	14,351	14,351	302,819.8	350,862	989.7	0.2	.	7,010	2,994
75-84	All	2010	All	All	6,491	3,145	6,582	2,778	14,431	14,431	306,871.0	355,629	1024.9	0.2	.	6,582	2,778
75-84	All	2011	All	All	6,946	3,264	6,680	2,847	14,557	14,557	316,725.5	367,894	1030.5	0.2	.	6,680	2,847
75-84	All	2012	All	All	7,262	3,303	6,646	2,837	14,987	14,987	327,708.0	379,145	1007.9	0.2	.	6,646	2,837
75-84	All	2013	All	All	8,108	3,566	6,696	2,857	15,748	15,748	336,684.8	390,869	1059.2	0.2	.	6,696	2,857
75-84	All	2014	All	All	8,068	3,476	6,252	2,660	15,651	15,651	340,735.2	394,433	1020.1	0.2	.	6,252	2,660
75-84	All	2015	All	All	8,189	3,560	5,018	2,226	15,571	15,571	340,745.2	401,715	1044.8	0.2	.	5,018	2,226
75-84	All	2016	All	All	6,483	2,559	266	117	10,885	10,885	309,935.8	357,738	825.7	0.2	.	266	117
75-84	All	2017	All	All	3,623	1,351	26	13	6,000	6,000	173,081.4	348,067	780.6	0.2	.	26	13
85+	All	2000	All	All	1,490	937	3,636	1,511	6,005	6,005	39,010.4	86,336	2401.9	0.2	.	3,636	1,511
85+	All	2001	All	All	3,132	1,949	7,450	3,146	12,747	12,747	78,791.1	97,085	2473.6	0.2	.	7,450	3,146
85+	All	2002	All	All	3,576	2,190	8,082	3,441	13,478	13,478	82,342.5	102,000	2659.6	0.2	.	8,082	3,441
85+	All	2003	All	All	4,031	2,355	8,250	3,512	14,116	14,116	86,260.2	106,249	2730.1	0.2	.	8,250	3,512
85+	All	2004	All	All	4,071	2,407	8,100	3,469	14,352	14,352	93,708.6	118,478	2568.6	0.2	.	8,100	3,469
85+	All	2005	All	All	4,620	2,643	8,192	3,528	15,532	15,532	103,482.7	127,240	2554.1	0.2	.	8,192	3,528
85+	All	2006	All	All	4,661	2,708	8,142	3,478	15,423	15,423	108,298.5	132,439	2500.5	0.2	.	8,142	3,478
85+	All	2007	All	All	4,704	2,756	7,788	3,334	15,368	15,368	109,694.6	132,358	2512.4	0.2	.	7,788	3,334
85+	All	2008	All	All	5,178	2,970	7,796	3,376	15,822	15,822	114,460.6	137,187	2594.8	0.2	.	7,796	3,376
85+	All	2009	All	All	5,007	2,799	7,750	3,405	16,138	16,138	119,188.3	142,586	2348.4	0.2	.	7,750	3,405
85+	All	2010	All	All	5,968	3,045	8,080	3,525	16,864	16,864	124,200.8	148,272	2451.7	0.2	.	8,080	3,525
85+	All	2011	All	All	6,119	3,157	7,980	3,486	17,649	17,649	130,183.2	155,698	2425.0	0.2	.	7,980	3,486
85+	All	2012	All	All	6,795	3,296	8,142	3,523	18,385	18,385	136,653.1	162,343	2411.9	0.2	.	8,142	3,523
85+	All	2013	All	All	7,493	3,684	8,378	3,649	20,228	20,228	141,050.5	168,277	2611.8	0.2	.	8,378	3,649
85+	All	2014	All	All	8,002	3,744	7,778	3,384	19,976	19,976	142,225.4	168,830	2632.4	0.2	.	7,778	3,384
85+	All	2015	All	All	8,030	3,768	6,188	2,833	19,995	19,995	140,405.3	170,222	2683.7	0.2	.	6,188	2,833
85+	All	2016	All	All	6,649	2,903	326	145	14,858	14,858	124,478.2	146,162	2332.1	0.2	.	326	145
85+	All	2017	All	All	4,076	1,717	12	6	8,509	8,509	67,758.5	139,086	2534.0	0.2	.	12	6
All	F	2000	All	All	2,932	1,760	6,310	2,619	12,841	12,841	1,733,630.5	3,745,400	101.5	0.1	.	6,310	2,619
All	M	2000	All	All	3,623	1,965	6,386	2,609	11,511	11,511	1,531,851.8	3,325,431	128.3	0.2	.	6,386	2,609
All	F	2001	All	All	6,538	3,875	13,092	5,461	27,103	27,103	3,442,534.7	4,021,150	112.6	0.1	.	13,092	5,461
All	M	2001	All	All	7,552	4,163	13,050	5,386	23,812	23,812	3,040,608.7	3,590,988	136.9	0.2	.	13,050	5,386
All	F	2002	All	All	7,088	4,241	13,750	5,819	28,230	28,230	3,476,371.4	4,090,749	122.0	0.2	.	13,750	5,819

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category			Race		MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year		Hispanic													
All	M	2002	All	All	8,198	4,487	14,242	5,870	24,986	24,986	3,070,504.7	3,653,024	146.1	0.2	.	14,242	5,870
All	F	2003	All	All	7,221	4,332	13,560	5,728	29,225	29,225	3,467,145.7	4,093,147	124.9	0.1	.	13,560	5,728
All	M	2003	All	All	8,475	4,627	14,330	5,971	25,513	25,513	3,058,720.8	3,645,352	151.3	0.2	.	14,330	5,971
All	F	2004	All	All	7,210	4,306	13,386	5,687	29,531	29,531	3,626,632.2	4,358,320	118.7	0.1	.	13,386	5,687
All	M	2004	All	All	8,582	4,698	14,030	5,781	25,620	25,620	3,194,051.6	3,867,745	147.1	0.2	.	14,030	5,781
All	F	2005	All	All	7,728	4,486	13,292	5,631	30,932	30,932	3,885,176.6	4,676,687	115.5	0.1	.	13,292	5,631
All	M	2005	All	All	9,428	4,971	14,424	5,986	26,973	26,973	3,422,380.0	4,153,431	145.2	0.2	.	14,424	5,986
All	F	2006	All	All	7,420	4,343	12,300	5,262	30,048	30,048	3,995,822.7	4,680,320	108.7	0.1	.	12,300	5,262
All	M	2006	All	All	8,971	4,781	13,596	5,646	26,091	26,091	3,532,470.9	4,164,176	135.3	0.2	.	13,596	5,646
All	F	2007	All	All	7,762	4,491	11,728	4,970	29,070	29,070	4,001,162.6	4,664,665	112.2	0.2	.	11,728	4,970
All	M	2007	All	All	9,116	4,771	12,462	5,167	25,172	25,172	3,548,081.0	4,160,228	134.5	0.2	.	12,462	5,167
All	F	2008	All	All	8,490	4,845	11,752	4,983	29,411	29,411	4,052,641.0	4,748,304	119.6	0.2	.	11,752	4,983
All	M	2008	All	All	9,782	5,006	12,086	5,078	25,326	25,326	3,596,476.0	4,239,114	139.2	0.2	.	12,086	5,078
All	F	2009	All	All	7,931	4,472	11,052	4,791	29,304	29,304	4,117,085.7	4,811,557	108.6	0.2	.	11,052	4,791
All	M	2009	All	All	9,626	4,833	12,154	5,125	24,947	24,947	3,630,415.1	4,279,461	133.1	0.2	.	12,154	5,125
All	F	2010	All	All	8,735	4,602	10,766	4,654	29,352	29,352	4,218,318.0	4,910,750	109.1	0.2	.	10,766	4,654
All	M	2010	All	All	10,860	5,099	12,046	5,035	25,133	25,133	3,700,014.3	4,345,374	137.8	0.2	.	12,046	5,035
All	F	2011	All	All	8,916	4,725	10,462	4,532	30,306	30,306	4,323,540.1	5,015,224	109.3	0.2	.	10,462	4,532
All	M	2011	All	All	11,698	5,389	12,286	5,166	25,920	25,920	3,797,166.9	4,439,438	141.9	0.2	.	12,286	5,166
All	F	2012	All	All	9,519	4,866	10,890	4,676	31,507	31,507	4,394,360.3	5,051,941	110.7	0.2	.	10,890	4,676
All	M	2012	All	All	12,437	5,500	12,788	5,363	27,197	27,197	3,869,058.6	4,475,602	142.2	0.2	.	12,788	5,363
All	F	2013	All	All	10,260	5,170	10,634	4,600	32,905	32,905	4,395,345.2	5,074,204	117.6	0.2	.	10,634	4,600
All	M	2013	All	All	13,904	6,022	12,576	5,299	28,674	28,674	3,883,250.5	4,505,064	155.1	0.2	.	12,576	5,299
All	F	2014	All	All	11,123	5,289	10,290	4,436	33,361	33,361	4,496,695.3	5,222,592	117.6	0.2	.	10,290	4,436
All	M	2014	All	All	13,952	5,960	12,076	5,073	28,641	28,641	3,977,089.9	4,667,232	149.9	0.2	.	12,076	5,073
All	F	2015	All	All	11,047	5,365	8,836	3,907	33,484	33,484	4,659,689.2	5,397,787	115.1	0.2	.	8,836	3,907
All	M	2015	All	All	14,385	6,116	9,798	4,318	28,634	28,634	4,125,061.8	4,837,919	148.3	0.2	.	9,798	4,318
All	F	2016	All	All	7,713	3,335	282	127	20,473	20,473	3,946,765.6	4,611,176	84.5	0.2	.	282	127
All	M	2016	All	All	11,709	4,493	538	239	19,446	19,446	3,656,092.1	4,317,998	122.9	0.2	.	538	239
All	F	2017	All	All	4,327	1,849	32	16	11,233	11,233	2,071,128.6	4,325,660	89.3	0.2	.	32	16
All	M	2017	All	All	6,842	2,496	32	16	10,777	10,777	1,908,073.0	4,023,416	130.8	0.2	.	32	16
<45	F	2000	All	All	41	18	80	32	727	727	1,080,761.2	2,396,652	1.7	0.0	.	80	32
<45	M	2000	All	All	33	21	124	55	1,023	1,023	992,833.9	2,209,351	2.1	0.0	.	124	55
<45	F	2001	All	All	83	44	194	81	1,466	1,466	2,137,799.7	2,614,368	2.1	0.0	.	194	81
<45	M	2001	All	All	73	44	320	136	2,103	2,103	1,965,777.2	2,423,688	2.2	0.0	.	320	136
<45	F	2002	All	All	55	46	162	69	1,521	1,521	2,130,649.6	2,632,375	2.2	0.0	.	162	69
<45	M	2002	All	All	136	79	400	168	2,275	2,275	1,963,582.1	2,442,600	4.0	0.0	.	400	168
<45	F	2003	All	All	86	51	150	67	1,542	1,542	2,091,318.3	2,599,056	2.4	0.0	.	150	67

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category			Race		MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year		Hispanic													
<45	M	2003	All	All	101	69	390	164	2,018	2,018	1,925,676.8	2,403,938	3.6	0.0	.	390	164
<45	F	2004	All	All	76	43	170	71	1,563	1,563	2,155,321.2	2,715,255	2.0	0.0	.	170	71
<45	M	2004	All	All	87	55	320	135	2,061	2,061	1,980,067.9	2,502,247	2.8	0.0	.	320	135
<45	F	2005	All	All	72	46	160	67	1,491	1,491	2,287,699.5	2,893,988	2.0	0.0	.	160	67
<45	M	2005	All	All	93	57	326	134	2,105	2,105	2,100,357.3	2,667,845	2.7	0.0	.	326	134
<45	F	2006	All	All	47	35	146	65	1,426	1,426	2,358,068.9	2,903,840	1.5	0.0	.	146	65
<45	M	2006	All	All	92	62	312	132	1,882	1,882	2,168,631.5	2,676,725	2.9	0.0	.	312	132
<45	F	2007	All	All	97	60	146	59	1,406	1,406	2,355,718.1	2,894,205	2.5	0.0	.	146	59
<45	M	2007	All	All	108	66	274	114	1,913	1,913	2,173,079.4	2,671,059	3.0	0.0	.	274	114
<45	F	2008	All	All	79	54	108	47	1,282	1,282	2,374,122.5	2,937,544	2.3	0.0	.	108	47
<45	M	2008	All	All	95	53	246	100	1,759	1,759	2,191,009.5	2,711,424	2.4	0.0	.	246	100
<45	F	2009	All	All	88	55	134	54	1,357	1,357	2,405,712.3	2,954,419	2.3	0.0	.	134	54
<45	M	2009	All	All	85	51	210	89	1,680	1,680	2,202,210.8	2,713,705	2.3	0.0	.	210	89
<45	F	2010	All	All	71	47	90	36	1,307	1,307	2,464,819.5	3,005,342	1.9	0.0	.	90	36
<45	M	2010	All	All	109	52	202	81	1,637	1,637	2,239,726.7	2,741,892	2.3	0.0	.	202	81
<45	F	2011	All	All	102	52	94	44	1,264	1,264	2,514,107.1	3,050,258	2.1	0.0	.	94	44
<45	M	2011	All	All	93	59	220	84	1,606	1,606	2,290,128.1	2,789,539	2.6	0.0	.	220	84
<45	F	2012	All	All	77	43	122	53	1,340	1,340	2,539,938.2	3,052,212	1.7	0.0	.	122	53
<45	M	2012	All	All	146	72	194	81	1,674	1,674	2,322,342.5	2,796,101	3.1	0.0	.	194	81
<45	F	2013	All	All	75	47	74	31	1,245	1,245	2,514,879.4	3,037,621	1.9	0.0	.	74	31
<45	M	2013	All	All	127	68	204	84	1,661	1,661	2,308,872.5	2,788,356	2.9	0.0	.	204	84
<45	F	2014	All	All	109	56	118	50	1,299	1,299	2,579,600.7	3,108,031	2.2	0.0	.	118	50
<45	M	2014	All	All	111	67	174	72	1,698	1,698	2,365,388.4	2,874,449	2.8	0.0	.	174	72
<45	F	2015	All	All	107	56	114	52	1,400	1,400	2,700,928.9	3,239,095	2.1	0.0	.	114	52
<45	M	2015	All	All	98	60	172	72	1,788	1,788	2,470,963.9	2,997,121	2.4	0.0	.	172	72
<45	F	2016	All	All	41	18	0	0	442	442	2,116,349.3	2,602,784	0.9	0.0	.	0	0
<45	M	2016	All	All	63	35	2	1	709	709	2,058,558.2	2,551,698	1.7	0.0	.	2	1
<45	F	2017	All	All	12	7	0	0	221	221	1,092,466.8	2,375,185	0.6	0.0	.	0	0
<45	M	2017	All	All	17	14	0	0	324	324	1,059,826.3	2,316,190	1.3	0.0	.	0	0
45-54	F	2000	All	All	119	60	216	85	750	750	255,394.0	561,436	23.5	0.1	.	216	85
45-54	M	2000	All	All	225	107	468	187	1,027	1,027	228,239.7	502,599	46.9	0.1	.	468	187
45-54	F	2001	All	All	247	145	486	193	1,639	1,639	507,735.0	616,631	28.6	0.1	.	486	193
45-54	M	2001	All	All	383	211	1,000	397	2,195	2,195	453,954.9	555,216	46.5	0.1	.	1,000	397
45-54	F	2002	All	All	286	173	474	195	1,688	1,688	513,978.7	632,245	33.7	0.1	.	474	195
45-54	M	2002	All	All	382	207	980	401	2,299	2,299	459,227.3	570,112	45.1	0.1	.	980	401
45-54	F	2003	All	All	217	127	440	183	1,735	1,735	517,359.2	636,311	24.5	0.1	.	440	183
45-54	M	2003	All	All	387	223	1,086	443	2,476	2,476	462,992.2	574,030	48.2	0.1	.	1,086	443
45-54	F	2004	All	All	216	133	432	180	1,848	1,848	549,661.4	693,435	24.2	0.1	.	432	180

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category			Race		MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year		Hispanic													
45-54	M	2004	All	All	319	199	1,112	436	2,347	2,347	490,137.5	621,111	40.6	0.1	.	1,112	436
45-54	F	2005	All	All	275	149	504	209	1,938	1,938	597,781.7	756,978	24.9	0.1	.	504	209
45-54	M	2005	All	All	369	209	1,094	441	2,519	2,519	530,159.3	675,148	39.4	0.1	.	1,094	441
45-54	F	2006	All	All	210	127	392	161	1,867	1,867	613,986.6	751,743	20.7	0.1	.	392	161
45-54	M	2006	All	All	434	213	974	393	2,401	2,401	545,536.6	672,456	39.0	0.1	.	974	393
45-54	F	2007	All	All	210	126	382	158	1,695	1,695	618,852.1	753,503	20.4	0.1	.	382	158
45-54	M	2007	All	All	437	247	930	380	2,327	2,327	550,528.4	675,301	44.9	0.1	.	930	380
45-54	F	2008	All	All	258	157	454	190	1,784	1,784	623,417.7	763,509	25.2	0.1	.	454	190
45-54	M	2008	All	All	371	210	834	342	2,301	2,301	555,953.5	685,297	37.8	0.1	.	834	342
45-54	F	2009	All	All	290	162	376	157	1,811	1,811	626,816.9	770,086	25.8	0.1	.	376	157
45-54	M	2009	All	All	475	244	816	346	2,271	2,271	555,656.9	689,415	43.9	0.1	.	816	346
45-54	F	2010	All	All	257	155	430	179	1,669	1,669	631,377.8	775,255	24.5	0.1	.	430	179
45-54	M	2010	All	All	448	220	798	331	2,113	2,113	557,163.0	691,122	39.5	0.1	.	798	331
45-54	F	2011	All	All	299	166	360	148	1,770	1,770	634,619.5	775,898	26.2	0.1	.	360	148
45-54	M	2011	All	All	409	211	708	300	2,153	2,153	560,063.0	690,575	37.7	0.1	.	708	300
45-54	F	2012	All	All	296	165	412	175	1,746	1,746	629,675.6	763,771	26.2	0.1	.	412	175
45-54	M	2012	All	All	470	231	782	306	2,203	2,203	557,490.0	681,069	41.4	0.1	.	782	306
45-54	F	2013	All	All	273	161	356	149	1,684	1,684	618,144.8	755,276	26.0	0.1	.	356	149
45-54	M	2013	All	All	470	239	706	285	2,010	2,010	550,758.2	677,660	43.4	0.1	.	706	285
45-54	F	2014	All	All	290	147	368	154	1,717	1,717	619,250.4	778,289	23.7	0.1	.	368	154
45-54	M	2014	All	All	467	207	610	246	2,045	2,045	554,544.6	703,114	37.3	0.1	.	610	246
45-54	F	2015	All	All	271	149	346	150	1,710	1,710	631,364.9	790,242	23.6	0.1	.	346	150
45-54	M	2015	All	All	453	227	620	259	1,972	1,972	567,175.2	717,070	40.0	0.1	.	620	259
45-54	F	2016	All	All	112	48	0	0	617	617	587,967.0	734,596	8.2	0.1	.	0	0
45-54	M	2016	All	All	363	108	12	6	834	834	543,242.2	683,736	19.9	0.1	.	12	6
45-54	F	2017	All	All	83	28	0	0	297	297	303,182.9	659,718	9.2	0.1	.	0	0
45-54	M	2017	All	All	103	41	0	0	394	394	278,272.7	611,640	14.7	0.1	.	0	0
55-64	F	2000	All	All	254	162	556	224	1,347	1,347	172,724.7	375,655	93.8	0.1	.	556	224
55-64	M	2000	All	All	545	285	1,088	430	1,839	1,839	152,393.4	332,185	187.0	0.2	.	1,088	430
55-64	F	2001	All	All	612	349	992	412	2,752	2,752	347,548.2	417,640	100.4	0.1	.	992	412
55-64	M	2001	All	All	1,114	567	2,000	803	3,525	3,525	305,052.2	369,447	185.9	0.2	.	2,000	803
55-64	F	2002	All	All	656	387	1,138	478	2,884	2,884	370,221.7	445,468	104.5	0.1	.	1,138	478
55-64	M	2002	All	All	1,098	584	2,216	876	3,843	3,843	324,567.1	393,900	179.9	0.2	.	2,216	876
55-64	F	2003	All	All	574	342	994	404	3,040	3,040	388,213.0	465,729	88.1	0.1	.	994	404
55-64	M	2003	All	All	1,173	646	2,290	916	3,811	3,811	339,854.1	411,343	190.1	0.2	.	2,290	916
55-64	F	2004	All	All	618	374	1,064	452	3,060	3,060	423,803.1	521,473	88.2	0.1	.	1,064	452
55-64	M	2004	All	All	1,127	626	2,052	815	3,985	3,985	372,392.2	461,700	168.1	0.2	.	2,052	815
55-64	F	2005	All	All	609	379	1,112	459	3,215	3,215	469,383.5	578,893	80.7	0.1	.	1,112	459

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category			Race		Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes	
(Years)	Sex	Year		Hispanic													
55-64	M	2005	All	All	1,159	593	2,146	865	4,121	4,121	414,310.9	512,529	143.1	0.1	.	2,146	865
55-64	F	2006	All	All	673	385	1,062	441	3,241	3,241	488,581.2	583,363	78.8	0.1	.	1,062	441
55-64	M	2006	All	All	1,206	605	1,912	787	3,990	3,990	434,659.1	520,343	139.2	0.2	.	1,912	787
55-64	F	2007	All	All	741	415	1,048	437	3,198	3,198	506,395.4	599,950	82.0	0.1	.	1,048	437
55-64	M	2007	All	All	1,285	651	1,998	793	4,087	4,087	449,900.8	535,822	144.7	0.2	.	1,998	793
55-64	F	2008	All	All	870	457	998	410	3,206	3,206	523,700.6	621,959	87.3	0.1	.	998	410
55-64	M	2008	All	All	1,361	658	1,806	751	4,061	4,061	464,510.2	555,253	141.7	0.2	.	1,806	751
55-64	F	2009	All	All	752	421	868	376	3,183	3,183	543,085.3	647,933	77.5	0.1	.	868	376
55-64	M	2009	All	All	1,337	664	1,886	755	4,079	4,079	476,689.9	574,124	139.3	0.2	.	1,886	755
55-64	F	2010	All	All	797	412	838	361	3,077	3,077	565,237.1	672,592	72.9	0.1	.	838	361
55-64	M	2010	All	All	1,255	623	1,760	715	4,050	4,050	491,716.0	591,359	126.7	0.2	.	1,760	715
55-64	F	2011	All	All	782	423	796	341	3,341	3,341	588,609.2	700,600	71.9	0.1	.	796	341
55-64	M	2011	All	All	1,411	648	1,760	712	4,109	4,109	510,019.7	612,006	127.1	0.2	.	1,760	712
55-64	F	2012	All	All	778	445	926	399	3,416	3,416	596,928.9	709,994	74.5	0.1	.	926	399
55-64	M	2012	All	All	1,472	657	1,864	764	4,300	4,300	516,725.0	618,962	127.1	0.2	.	1,864	764
55-64	F	2013	All	All	920	465	870	369	3,457	3,457	599,356.4	714,068	77.6	0.1	.	870	369
55-64	M	2013	All	All	1,470	701	1,606	653	4,258	4,258	521,048.9	625,259	134.5	0.2	.	1,606	653
55-64	F	2014	All	All	923	470	910	380	3,534	3,534	609,383.5	747,915	77.1	0.1	.	910	380
55-64	M	2014	All	All	1,611	697	1,682	683	4,309	4,309	531,844.8	657,095	131.1	0.2	.	1,682	683
55-64	F	2015	All	All	1,071	506	940	392	3,447	3,447	625,932.1	764,065	80.8	0.1	.	940	392
55-64	M	2015	All	All	1,615	720	1,524	646	4,507	4,507	548,515.7	674,720	131.3	0.2	.	1,524	646
55-64	F	2016	All	All	526	231	14	7	1,718	1,718	600,903.4	734,067	38.4	0.1	.	14	7
55-64	M	2016	All	All	1,023	372	28	12	2,179	2,179	531,175.0	652,763	70.0	0.2	.	28	12
55-64	F	2017	All	All	244	112	4	2	908	908	317,606.2	677,842	35.3	0.1	.	4	2
55-64	M	2017	All	All	605	197	2	1	1,157	1,157	278,347.8	600,013	70.8	0.2	.	2	1
65-74	F	2000	All	All	593	350	1,032	428	2,245	2,245	119,437.5	257,853	293.0	0.2	.	1,032	428
65-74	M	2000	All	All	989	521	1,540	630	2,607	2,607	97,136.4	210,237	536.4	0.2	.	1,540	630
65-74	F	2001	All	All	1,378	825	2,166	897	4,840	4,840	237,284.4	276,911	347.7	0.2	.	2,166	897
65-74	M	2001	All	All	2,179	1,173	3,258	1,333	5,419	5,419	192,435.8	226,076	609.6	0.2	.	3,258	1,333
65-74	F	2002	All	All	1,549	867	2,374	1,000	4,838	4,838	241,336.9	282,340	359.2	0.2	.	2,374	1,000
65-74	M	2002	All	All	2,040	1,144	3,402	1,396	5,487	5,487	194,822.7	230,519	587.2	0.2	.	3,402	1,396
65-74	F	2003	All	All	1,438	864	2,222	932	4,964	4,964	243,355.4	285,560	355.0	0.2	.	2,222	932
65-74	M	2003	All	All	2,130	1,180	3,402	1,404	5,538	5,538	197,293.9	233,821	598.1	0.2	.	3,402	1,404
65-74	F	2004	All	All	1,392	833	2,200	911	4,945	4,945	255,556.2	304,936	326.0	0.2	.	2,200	911
65-74	M	2004	All	All	2,145	1,154	3,312	1,332	5,432	5,432	207,955.3	250,593	554.9	0.2	.	3,312	1,332
65-74	F	2005	All	All	1,429	825	2,102	869	5,045	5,045	269,889.5	321,815	305.7	0.2	.	2,102	869
65-74	M	2005	All	All	2,278	1,209	3,344	1,386	5,677	5,677	221,286.4	266,523	546.4	0.2	.	3,344	1,386
65-74	F	2006	All	All	1,468	815	1,904	815	4,707	4,707	270,691.8	318,259	301.1	0.2	.	1,904	815

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(Years)	Sex	Year		Hispanic													
65-74	M	2006	All	All	2,005	1,072	2,992	1,220	5,297	5,297	223,319.4	265,119	480.0	0.2	.	2,992	1,220
65-74	F	2007	All	All	1,406	792	1,754	734	4,515	4,515	264,387.5	309,472	299.6	0.2	.	1,754	734
65-74	M	2007	All	All	2,033	1,075	2,492	1,020	4,986	4,986	219,226.7	258,959	490.4	0.2	.	2,492	1,020
65-74	F	2008	All	All	1,631	890	1,738	732	4,609	4,609	272,685.5	316,469	326.4	0.2	.	1,738	732
65-74	M	2008	All	All	2,474	1,218	2,794	1,141	5,151	5,151	226,468.1	265,575	537.8	0.2	.	2,794	1,141
65-74	F	2009	All	All	1,513	818	1,612	696	4,541	4,541	280,834.9	328,997	291.3	0.2	.	1,612	696
65-74	M	2009	All	All	2,312	1,094	2,544	1,044	4,840	4,840	234,287.3	276,788	466.9	0.2	.	2,544	1,044
65-74	F	2010	All	All	1,638	831	1,588	669	4,449	4,449	292,102.2	341,460	284.5	0.2	.	1,588	669
65-74	M	2010	All	All	2,561	1,171	2,444	1,014	4,888	4,888	244,956.9	288,583	478.0	0.2	.	2,444	1,014
65-74	F	2011	All	All	1,674	862	1,492	638	4,560	4,560	312,986.6	371,236	275.4	0.2	.	1,492	638
65-74	M	2011	All	All	2,779	1,272	2,658	1,098	5,217	5,217	263,131.3	314,573	483.4	0.2	.	2,658	1,098
65-74	F	2012	All	All	1,828	891	1,736	726	5,099	5,099	345,312.2	406,514	258.0	0.2	.	1,736	726
65-74	M	2012	All	All	2,832	1,263	2,854	1,175	5,554	5,554	290,529.3	343,995	434.7	0.2	.	2,854	1,175
65-74	F	2013	All	All	1,941	957	1,562	665	5,258	5,258	373,758.5	438,193	256.0	0.2	.	1,562	665
65-74	M	2013	All	All	3,287	1,304	2,758	1,157	6,030	6,030	313,938.5	370,408	415.4	0.2	.	2,758	1,157
65-74	F	2014	All	All	2,274	1,039	1,702	726	5,575	5,575	397,355.3	462,563	261.5	0.2	.	1,702	726
65-74	M	2014	All	All	3,220	1,346	2,772	1,154	6,198	6,198	333,380.1	390,216	403.7	0.2	.	2,772	1,154
65-74	F	2015	All	All	2,271	1,034	1,536	658	5,630	5,630	413,028.1	483,243	250.3	0.2	.	1,536	658
65-74	M	2015	All	All	3,327	1,401	2,176	937	6,098	6,098	345,626.8	407,910	405.4	0.2	.	2,176	937
65-74	F	2016	All	All	1,449	588	38	18	3,540	3,540	391,317.0	452,219	150.3	0.2	.	38	18
65-74	M	2016	All	All	2,713	966	134	60	4,137	4,137	338,891.8	394,497	285.0	0.2	.	134	60
65-74	F	2017	All	All	805	314	12	6	1,862	1,862	219,702.2	439,966	142.9	0.2	.	12	6
65-74	M	2017	All	All	1,601	564	8	4	2,338	2,338	188,950.7	381,195	298.5	0.2	.	8	4
75-84	F	2000	All	All	1,016	582	1,988	829	3,634	3,634	77,579.9	167,411	750.2	0.2	.	1,988	829
75-84	M	2000	All	All	1,250	682	1,968	817	3,148	3,148	49,918.0	108,050	1366.2	0.2	.	1,968	817
75-84	F	2001	All	All	2,316	1,309	4,194	1,726	7,694	7,694	156,294.1	182,441	837.5	0.2	.	4,194	1,726
75-84	M	2001	All	All	2,573	1,422	4,082	1,723	6,535	6,535	100,371.0	118,141	1416.7	0.2	.	4,082	1,723
75-84	F	2002	All	All	2,545	1,489	4,352	1,840	8,115	8,115	161,884.8	189,741	919.8	0.2	.	4,352	1,840
75-84	M	2002	All	All	2,963	1,562	4,412	1,825	6,788	6,788	104,150.6	122,919	1499.8	0.2	.	4,412	1,825
75-84	F	2003	All	All	2,568	1,509	4,234	1,797	8,341	8,341	166,153.3	193,858	908.2	0.2	.	4,234	1,797
75-84	M	2003	All	All	2,991	1,593	4,432	1,877	7,157	7,157	107,288.8	126,219	1484.8	0.2	.	4,432	1,877
75-84	F	2004	All	All	2,608	1,523	4,252	1,817	8,440	8,440	176,729.6	210,446	861.8	0.2	.	4,252	1,817
75-84	M	2004	All	All	3,133	1,657	4,402	1,850	7,118	7,118	115,259.2	138,912	1437.6	0.2	.	4,402	1,850
75-84	F	2005	All	All	2,774	1,547	4,190	1,762	8,744	8,744	188,428.5	220,979	821.0	0.2	.	4,190	1,762
75-84	M	2005	All	All	3,478	1,800	4,546	1,897	7,518	7,518	124,608.2	147,784	1444.5	0.2	.	4,546	1,897
75-84	F	2006	All	All	2,462	1,430	3,752	1,608	8,560	8,560	189,562.8	220,244	754.4	0.2	.	3,752	1,608
75-84	M	2006	All	All	3,133	1,672	4,308	1,808	7,345	7,345	126,728.9	148,645	1319.4	0.2	.	4,308	1,808
75-84	F	2007	All	All	2,659	1,451	3,504	1,482	7,956	7,956	180,178.9	208,173	805.3	0.2	.	3,504	1,482

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category			Race		MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year		Hispanic													
75-84	M	2007	All	All	3,198	1,623	3,874	1,626	6,791	6,791	121,060.0	140,988	1340.7	0.2	.	3,874	1,626
75-84	F	2008	All	All	2,743	1,548	3,462	1,454	7,943	7,943	180,099.2	206,458	859.5	0.2	.	3,462	1,454
75-84	M	2008	All	All	3,212	1,636	3,602	1,518	6,819	6,819	122,482.6	141,364	1335.7	0.2	.	3,602	1,518
75-84	F	2009	All	All	2,537	1,413	3,256	1,385	7,702	7,702	179,114.6	207,212	788.9	0.2	.	3,256	1,385
75-84	M	2009	All	All	3,161	1,584	3,754	1,609	6,649	6,649	123,705.2	143,650	1280.5	0.2	.	3,754	1,609
75-84	F	2010	All	All	2,811	1,433	2,892	1,249	7,704	7,704	180,268.3	208,540	794.9	0.2	.	2,892	1,249
75-84	M	2010	All	All	3,680	1,712	3,690	1,529	6,727	6,727	126,602.7	147,089	1352.3	0.3	.	3,690	1,529
75-84	F	2011	All	All	2,937	1,503	3,080	1,315	7,799	7,799	184,951.2	214,480	812.6	0.2	.	3,080	1,315
75-84	M	2011	All	All	4,009	1,761	3,600	1,532	6,758	6,758	131,774.3	153,414	1336.4	0.3	.	3,600	1,532
75-84	F	2012	All	All	3,032	1,520	3,012	1,297	7,991	7,991	190,305.5	219,855	798.7	0.2	.	3,012	1,297
75-84	M	2012	All	All	4,230	1,783	3,634	1,540	6,996	6,996	137,402.5	159,290	1297.6	0.3	.	3,634	1,540
75-84	F	2013	All	All	3,367	1,581	2,986	1,288	8,207	8,207	194,490.2	225,326	812.9	0.2	.	2,986	1,288
75-84	M	2013	All	All	4,741	1,985	3,710	1,569	7,541	7,541	142,194.6	165,543	1396.0	0.3	.	3,710	1,569
75-84	F	2014	All	All	3,344	1,526	2,704	1,168	8,201	8,201	195,966.9	226,464	778.7	0.2	.	2,704	1,168
75-84	M	2014	All	All	4,724	1,950	3,548	1,492	7,450	7,450	144,768.3	167,969	1347.0	0.3	.	3,548	1,492
75-84	F	2015	All	All	3,273	1,557	2,274	992	8,277	8,277	195,356.5	229,547	797.0	0.2	.	2,274	992
75-84	M	2015	All	All	4,916	2,003	2,744	1,234	7,294	7,294	145,388.7	172,168	1377.7	0.3	.	2,744	1,234
75-84	F	2016	All	All	2,532	1,030	86	37	5,239	5,239	171,372.4	197,280	601.0	0.2	.	86	37
75-84	M	2016	All	All	3,951	1,529	180	80	5,646	5,646	138,563.3	160,458	1103.5	0.3	.	180	80
75-84	F	2017	All	All	1,390	573	12	6	2,931	2,931	95,456.9	191,898	600.3	0.2	.	12	6
75-84	M	2017	All	All	2,233	778	14	7	3,069	3,069	77,624.4	156,169	1002.3	0.3	.	14	7
85+	F	2000	All	All	909	588	2,438	1,021	4,138	4,138	27,713.0	61,107	2121.7	0.1	.	2,438	1,021
85+	M	2000	All	All	581	349	1,198	490	1,867	1,867	11,297.4	25,229	3089.2	0.2	.	1,198	490
85+	F	2001	All	All	1,902	1,203	5,060	2,152	8,712	8,712	55,835.2	68,364	2154.6	0.1	.	5,060	2,152
85+	M	2001	All	All	1,230	746	2,390	994	4,035	4,035	22,955.9	28,721	3249.7	0.2	.	2,390	994
85+	F	2002	All	All	1,997	1,279	5,250	2,237	9,184	9,184	58,256.6	71,578	2195.5	0.1	.	5,250	2,237
85+	M	2002	All	All	1,579	911	2,832	1,204	4,294	4,294	24,085.9	30,422	3782.3	0.2	.	2,832	1,204
85+	F	2003	All	All	2,338	1,439	5,520	2,345	9,603	9,603	60,710.0	74,336	2370.3	0.1	.	5,520	2,345
85+	M	2003	All	All	1,693	916	2,730	1,167	4,513	4,513	25,550.3	31,913	3585.1	0.2	.	2,730	1,167
85+	F	2004	All	All	2,300	1,400	5,268	2,256	9,675	9,675	65,522.9	82,223	2136.7	0.1	.	5,268	2,256
85+	M	2004	All	All	1,771	1,007	2,832	1,213	4,677	4,677	28,185.7	36,255	3572.7	0.2	.	2,832	1,213
85+	F	2005	All	All	2,569	1,540	5,224	2,265	10,499	10,499	71,913.9	87,754	2141.5	0.1	.	5,224	2,265
85+	M	2005	All	All	2,051	1,103	2,968	1,263	5,033	5,033	31,568.8	39,486	3494.0	0.2	.	2,968	1,263
85+	F	2006	All	All	2,560	1,551	5,044	2,172	10,247	10,247	74,824.2	90,863	2072.9	0.2	.	5,044	2,172
85+	M	2006	All	All	2,101	1,157	3,098	1,306	5,176	5,176	33,474.3	41,576	3456.4	0.2	.	3,098	1,306
85+	F	2007	All	All	2,649	1,647	4,894	2,100	10,300	10,300	75,529.8	90,702	2180.6	0.2	.	4,894	2,100
85+	M	2007	All	All	2,055	1,109	2,894	1,234	5,068	5,068	34,164.8	41,656	3246.0	0.2	.	2,894	1,234
85+	F	2008	All	All	2,909	1,739	4,992	2,150	10,587	10,587	78,527.5	93,667	2214.5	0.2	.	4,992	2,150

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all Deaths	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
85+	M	2008	All	All	2,269	1,231	2,804	1,226	5,235	5,235	35,933.1	43,520	3425.8	0.2	.	2,804	1,226
85+	F	2009	All	All	2,751	1,603	4,806	2,123	10,710	10,710	81,434.6	96,935	1968.5	0.1	.	4,806	2,123
85+	M	2009	All	All	2,256	1,196	2,944	1,282	5,428	5,428	37,753.6	45,651	3167.9	0.2	.	2,944	1,282
85+	F	2010	All	All	3,161	1,724	4,928	2,160	11,146	11,146	84,441.0	100,334	2041.7	0.2	.	4,928	2,160
85+	M	2010	All	All	2,807	1,321	3,152	1,365	5,718	5,718	39,759.8	47,938	3322.5	0.2	.	3,152	1,365
85+	F	2011	All	All	3,122	1,719	4,640	2,046	11,572	11,572	88,205.7	104,823	1948.9	0.1	.	4,640	2,046
85+	M	2011	All	All	2,997	1,438	3,340	1,440	6,077	6,077	41,977.5	50,875	3425.6	0.2	.	3,340	1,440
85+	F	2012	All	All	3,508	1,802	4,682	2,026	11,915	11,915	92,146.9	108,812	1955.6	0.2	.	4,682	2,026
85+	M	2012	All	All	3,287	1,494	3,460	1,497	6,470	6,470	44,506.2	53,531	3356.8	0.2	.	3,460	1,497
85+	F	2013	All	All	3,684	1,959	4,786	2,098	13,054	13,054	94,665.2	112,244	2069.4	0.2	.	4,786	2,098
85+	M	2013	All	All	3,809	1,725	3,592	1,551	7,174	7,174	46,385.4	56,033	3718.8	0.2	.	3,592	1,551
85+	F	2014	All	All	4,183	2,051	4,488	1,958	13,035	13,035	95,101.8	112,218	2156.6	0.2	.	4,488	1,958
85+	M	2014	All	All	3,819	1,693	3,290	1,426	6,941	6,941	47,123.6	56,612	3592.7	0.2	.	3,290	1,426
85+	F	2015	All	All	4,054	2,063	3,626	1,663	13,020	13,020	93,053.1	112,023	2217.0	0.2	.	3,626	1,663
85+	M	2015	All	All	3,976	1,705	2,562	1,170	6,975	6,975	47,352.2	58,199	3600.7	0.2	.	2,562	1,170
85+	F	2016	All	All	3,053	1,420	144	65	8,917	8,917	78,839.2	91,760	1801.1	0.2	.	144	65
85+	M	2016	All	All	3,596	1,483	182	80	5,941	5,941	45,639.0	54,402	3249.4	0.2	.	182	80
85+	F	2017	All	All	1,793	815	4	2	5,014	5,014	42,709.9	87,291	1908.2	0.2	.	4	2
85+	M	2017	All	All	2,283	902	8	4	3,495	3,495	25,048.6	51,795	3601.0	0.3	.	8	4
All	All	All	American Indian/Alaskan Native	All	1,793	761	1,596	660	3,708	3,708	690,475.0	111,257	110.2	0.2	.	1,596	660
All	All	All	Asian	All	18,415	8,165	15,144	6,328	42,422	42,422	11,575,696.2	1,664,660	70.5	0.2	.	15,144	6,328
All	All	All	Black/African American	All	27,289	14,971	36,566	15,344	95,701	95,701	12,651,408.7	1,960,046	118.3	0.2	.	36,566	15,344
All	All	All	Native Hawaiian/Pacific Islander	All	2,938	1,346	2,562	1,056	6,333	6,333	1,523,448.1	212,529	88.4	0.2	.	2,562	1,056
All	All	All	Unknown	All	42,006	19,456	48,490	20,732	135,667	135,667	38,430,210.1	11,188,504	50.6	0.1	.	48,490	20,732
All	All	All	White	All	228,659	117,030	276,956	116,907	648,858	648,858	63,974,175.1	9,575,649	182.9	0.2	.	276,956	116,907
All	All	All	All	No	127,088	72,015	188,462	79,104	421,413	421,413	37,119,593.6	6,021,371	194.0	0.2	.	188,462	79,104
All	All	All	All	Unknown	175,166	81,292	176,718	75,138	467,681	467,681	79,109,298.1	16,744,922	102.8	0.2	.	176,718	75,138
All	All	All	All	Yes	18,846	8,422	16,134	6,785	43,595	43,595	12,616,521.6	1,946,352	66.8	0.2	.	16,134	6,785

Table 1a. Number of Myocardial Infarction (MI)-Related Cause of Death (COD) Codes, Primary Analysis, by Source

Source	Aggregate
N: National Death Index	7,768
S: State Death Files	369,260
L: Other, locally defined	3,268
T: Tumor Data	1,018
Total	381,314

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category				MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding COD Record	Records of Death in Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related Codes	
(Years)	Sex	Year	Race	Hispanic	Codes	Codes	(COD) Record	COD Record	Table	Death Table	Member-Years	Members	Member-Years	Deaths	Death Rate	COD Codes	Codes
All	All	All	All	All	121,482	71,577	381,314	161,027	932,689	932,689	128,845,413	24,712,645	55.6	0.1	54.5	381,314	161,027
<45	All	All	All	All	1,500	1,004	6,152	2,580	52,215	52,215	76,679,294.5	18,007,648	1.3	0.0	.	6,152	2,580
45-54	All	All	All	All	5,020	3,132	19,958	8,165	63,852	63,852	19,081,661.5	5,278,030	16.4	0.0	.	19,958	8,165
55-64	All	All	All	All	14,097	8,345	44,750	18,321	118,234	118,234	16,401,336.4	4,174,214	50.9	0.1	.	44,750	18,321
65-74	All	All	All	All	26,921	15,610	73,654	30,625	172,116	172,116	9,534,659.2	2,279,937	163.7	0.1	.	73,654	30,625
75-84	All	All	All	All	39,322	22,766	114,730	48,585	250,827	250,827	5,204,085.1	1,169,299	437.5	0.1	.	114,730	48,585
85+	All	All	All	All	34,622	20,720	122,070	52,751	275,445	275,445	1,942,192.3	512,834	1066.8	0.1	.	122,070	52,751
All	F	All	All	All	55,058	33,934	182,414	77,899	498,316	498,316	68,304,045.5	12,757,524	49.7	0.1	.	182,414	77,899
All	M	All	All	All	66,424	37,643	198,900	83,128	434,373	434,373	60,541,367.8	11,955,121	62.2	0.1	.	198,900	83,128
<45	F	All	All	All	655	443	2,062	878	22,299	22,299	39,900,261.3	9,189,785	1.1	0.0	.	2,062	878
<45	M	All	All	All	845	561	4,090	1,702	29,916	29,916	36,779,033.2	8,817,863	1.5	0.0	.	4,090	1,702
45-54	F	All	All	All	1,882	1,221	6,428	2,666	27,965	27,965	10,080,566.2	2,748,205	12.1	0.0	.	6,428	2,666
45-54	M	All	All	All	3,138	1,911	13,530	5,499	35,887	35,887	9,001,095.3	2,529,825	21.2	0.1	.	13,530	5,499
55-64	F	All	All	All	4,965	3,136	15,130	6,344	52,024	52,024	8,737,613.7	2,192,926	35.9	0.1	.	15,130	6,344
55-64	M	All	All	All	9,132	5,209	29,620	11,977	66,210	66,210	7,663,722.8	1,981,288	68.0	0.1	.	29,620	11,977
65-74	F	All	All	All	10,674	6,489	28,770	12,120	81,222	81,222	5,201,021.6	1,223,070	124.8	0.1	.	28,770	12,120
65-74	M	All	All	All	16,247	9,121	44,884	18,505	90,894	90,894	4,333,637.6	1,056,867	210.5	0.1	.	44,884	18,505
75-84	F	All	All	All	17,679	10,709	54,230	23,052	133,478	133,478	3,064,193.8	676,985	349.5	0.1	.	54,230	23,052
75-84	M	All	All	All	21,643	12,057	60,500	25,533	117,349	117,349	2,139,891.2	492,314	563.4	0.1	.	60,500	25,533
85+	F	All	All	All	19,203	11,936	75,794	32,839	181,328	181,328	1,319,430.3	337,545	904.6	0.1	.	75,794	32,839
85+	M	All	All	All	15,419	8,784	46,276	19,912	94,117	94,117	622,762.0	175,289	1410.5	0.1	.	46,276	19,912
All	All	2000	All	All	2,775	1,778	12,696	5,228	24,352	24,352	3,265,482.3	7,070,831	54.4	0.1	59.9	12,696	5,228
All	All	2001	All	All	5,864	3,793	26,142	10,847	50,915	50,915	6,483,143.4	7,612,138	58.5	0.1	63.6	26,142	10,847
All	All	2002	All	All	6,298	4,067	27,992	11,689	53,216	53,216	6,546,876.2	7,743,773	62.1	0.1	66.1	27,992	11,689
All	All	2003	All	All	6,381	4,121	27,890	11,699	54,738	54,738	6,525,866.5	7,738,499	63.1	0.1	65.3	27,890	11,699
All	All	2004	All	All	6,444	4,157	27,416	11,468	55,151	55,151	6,820,683.9	8,226,065	60.9	0.1	61.4	27,416	11,468
All	All	2005	All	All	6,909	4,374	27,716	11,617	57,905	57,905	7,307,556.6	8,830,118	59.9	0.1	60.0	27,716	11,617
All	All	2006	All	All	6,474	4,134	25,896	10,908	56,139	56,139	7,528,293.6	8,844,496	54.9	0.1	55.3	25,896	10,908
All	All	2007	All	All	6,512	4,062	24,190	10,137	54,242	54,242	7,549,243.6	8,824,893	53.8	0.1	54.8	24,190	10,137
All	All	2008	All	All	6,824	4,220	23,838	10,061	54,737	54,737	7,649,117.1	8,987,418	55.2	0.1	55.6	23,838	10,061
All	All	2009	All	All	6,635	4,048	23,206	9,916	54,251	54,251	7,747,500.9	9,091,018	52.2	0.1	52.3	23,206	9,916
All	All	2010	All	All	7,071	4,205	22,812	9,689	54,485	54,485	7,918,332.3	9,256,124	53.1	0.1	52.9	22,812	9,689
All	All	2011	All	All	7,480	4,367	22,748	9,698	56,226	56,226	8,120,707.1	9,454,662	53.8	0.1	52.5	22,748	9,698
All	All	2012	All	All	8,291	4,653	23,678	10,039	58,704	58,704	8,263,418.9	9,527,543	56.3	0.1	53.6	23,678	10,039
All	All	2013	All	All	8,623	4,855	23,210	9,899	61,579	61,579	8,278,595.6	9,579,268	58.6	0.1	54.0	23,210	9,899
All	All	2014	All	All	9,104	4,841	22,366	9,509	62,002	62,002	8,473,785.2	9,889,824	57.1	0.1	52.5	22,366	9,509
All	All	2015	All	All	8,874	4,737	18,634	8,225	62,118	62,118	8,784,751.0	10,235,706	53.9	0.1	50.9	18,634	8,225
All	All	2016	All	All	7,078	3,370	820	366	39,919	39,919	7,602,857.6	8,929,174	44.3	0.1	40.6	820	366
All	All	2017	All	All	3,845	1,795	64	32	22,010	22,010	3,979,201.6	8,349,076	45.1	0.1	39.1	64	32
<45	All	2000	All	All	42	27	204	87	1,750	1,750	2,073,595.0	4,606,003	1.3	0.0	.	204	87
<45	All	2001	All	All	94	58	514	217	3,569	3,569	4,103,577.0	5,038,056	1.4	0.0	.	514	217
<45	All	2002	All	All	115	81	562	237	3,796	3,796	4,094,231.7	5,074,975	2.0	0.0	.	562	237

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding	Records of Death in Table	Members with Record of Death in Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Death	Death Table	Death Table	Member-Years	Members	Member-Years	Deaths	Death Rate	COD Codes
<45	All	2003	All	All	98	77	540	231	3,560	3,560	4,016,995.2	5,002,994	1.9	0.0	.	540	231
<45	All	2004	All	All	81	57	490	206	3,624	3,624	4,135,389.1	5,217,502	1.4	0.0	.	490	206
<45	All	2005	All	All	90	60	486	201	3,596	3,596	4,388,056.8	5,561,833	1.4	0.0	.	486	201
<45	All	2006	All	All	75	53	458	197	3,308	3,308	4,526,700.5	5,580,565	1.2	0.0	.	458	197
<45	All	2007	All	All	95	58	420	173	3,319	3,319	4,528,797.5	5,565,264	1.3	0.0	.	420	173
<45	All	2008	All	All	74	56	354	147	3,041	3,041	4,565,132.0	5,648,968	1.2	0.0	.	354	147
<45	All	2009	All	All	87	64	344	143	3,037	3,037	4,607,923.1	5,668,124	1.4	0.0	.	344	143
<45	All	2010	All	All	88	53	292	117	2,944	2,944	4,704,546.2	5,747,234	1.1	0.0	.	292	117
<45	All	2011	All	All	88	59	314	128	2,870	2,870	4,804,235.3	5,839,797	1.2	0.0	.	314	128
<45	All	2012	All	All	97	58	316	134	3,014	3,014	4,862,280.7	5,848,313	1.2	0.0	.	316	134
<45	All	2013	All	All	102	74	278	115	2,906	2,906	4,823,751.9	5,825,977	1.5	0.0	.	278	115
<45	All	2014	All	All	97	63	292	122	2,997	2,997	4,944,989.1	5,982,480	1.3	0.0	.	292	122
<45	All	2015	All	All	106	61	286	124	3,188	3,188	5,171,892.8	6,236,216	1.2	0.0	.	286	124
<45	All	2016	All	All	53	32	2	1	1,151	1,151	4,174,907.5	5,154,482	0.8	0.0	.	2	1
<45	All	2017	All	All	18	13	0	0	545	545	2,152,293.1	4,691,375	0.6	0.0	.	0	0
45-54	All	2000	All	All	147	91	684	272	1,777	1,777	483,633.7	1,064,035	18.8	0.1	.	684	272
45-54	All	2001	All	All	340	205	1,486	590	3,834	3,834	961,689.9	1,171,847	21.3	0.1	.	1,486	590
45-54	All	2002	All	All	327	208	1,454	596	3,987	3,987	973,206.0	1,202,357	21.4	0.1	.	1,454	596
45-54	All	2003	All	All	272	189	1,526	626	4,211	4,211	980,351.5	1,210,341	19.3	0.0	.	1,526	626
45-54	All	2004	All	All	266	181	1,544	616	4,195	4,195	1,039,798.8	1,314,546	17.4	0.0	.	1,544	616
45-54	All	2005	All	All	324	208	1,598	650	4,457	4,457	1,127,941.0	1,432,126	18.4	0.0	.	1,598	650
45-54	All	2006	All	All	287	192	1,366	554	4,268	4,268	1,159,523.2	1,424,199	16.6	0.0	.	1,366	554
45-54	All	2007	All	All	304	186	1,312	538	4,022	4,022	1,169,380.6	1,428,804	15.9	0.0	.	1,312	538
45-54	All	2008	All	All	272	191	1,288	532	4,085	4,085	1,179,371.2	1,448,806	16.2	0.0	.	1,288	532
45-54	All	2009	All	All	365	225	1,192	503	4,082	4,082	1,182,473.8	1,459,501	19.0	0.1	.	1,192	503
45-54	All	2010	All	All	285	182	1,228	510	3,782	3,782	1,188,540.8	1,466,377	15.3	0.0	.	1,228	510
45-54	All	2011	All	All	319	200	1,068	448	3,923	3,923	1,194,682.6	1,466,473	16.7	0.1	.	1,068	448
45-54	All	2012	All	All	337	204	1,194	481	3,949	3,949	1,187,165.6	1,444,840	17.2	0.1	.	1,194	481
45-54	All	2013	All	All	325	199	1,062	434	3,694	3,694	1,168,902.9	1,432,936	17.0	0.1	.	1,062	434
45-54	All	2014	All	All	246	156	978	400	3,762	3,762	1,173,795.0	1,481,403	13.3	0.0	.	978	400
45-54	All	2015	All	All	311	184	966	409	3,682	3,682	1,198,540.1	1,507,312	15.4	0.0	.	966	409
45-54	All	2016	All	All	221	94	12	6	1,451	1,451	1,131,209.2	1,418,332	8.3	0.1	.	12	6
45-54	All	2017	All	All	72	37	0	0	691	691	581,455.6	1,271,358	6.4	0.1	.	0	0
55-64	All	2000	All	All	372	237	1,644	654	3,186	3,186	325,118.1	707,840	72.9	0.1	.	1,644	654
55-64	All	2001	All	All	730	469	2,992	1,215	6,277	6,277	652,600.4	787,087	71.9	0.1	.	2,992	1,215
55-64	All	2002	All	All	773	491	3,354	1,354	6,727	6,727	694,788.8	839,368	70.7	0.1	.	3,354	1,354
55-64	All	2003	All	All	757	480	3,284	1,320	6,851	6,851	728,067.1	877,072	65.9	0.1	.	3,284	1,320
55-64	All	2004	All	All	768	510	3,116	1,267	7,045	7,045	796,195.3	983,173	64.1	0.1	.	3,116	1,267
55-64	All	2005	All	All	742	479	3,258	1,324	7,336	7,336	883,694.4	1,091,422	54.2	0.1	.	3,258	1,324
55-64	All	2006	All	All	776	480	2,974	1,228	7,231	7,231	923,240.3	1,103,706	52.0	0.1	.	2,974	1,228
55-64	All	2007	All	All	851	532	3,046	1,230	7,285	7,285	956,296.2	1,135,772	55.6	0.1	.	3,046	1,230
55-64	All	2008	All	All	934	533	2,804	1,161	7,267	7,267	988,210.8	1,177,212	53.9	0.1	.	2,804	1,161

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding COD Record	Records of Death in Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Table	Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	COD Codes	Codes
55-64	All	2009	All	All	829	504	2,754	1,131	7,262	7,262	1,019,775.3	1,222,057	49.4	0.1	.	2,754	1,131
55-64	All	2010	All	All	817	490	2,598	1,076	7,127	7,127	1,056,953.1	1,263,951	46.4	0.1	.	2,598	1,076
55-64	All	2011	All	All	899	526	2,556	1,053	7,450	7,450	1,098,628.9	1,312,606	47.9	0.1	.	2,556	1,053
55-64	All	2012	All	All	880	516	2,790	1,163	7,716	7,716	1,113,653.9	1,328,956	46.3	0.1	.	2,790	1,163
55-64	All	2013	All	All	964	561	2,476	1,022	7,715	7,715	1,120,405.4	1,339,327	50.1	0.1	.	2,476	1,022
55-64	All	2014	All	All	1,095	564	2,592	1,063	7,843	7,843	1,141,228.3	1,405,010	49.4	0.1	.	2,592	1,063
55-64	All	2015	All	All	1,027	551	2,464	1,038	7,954	7,954	1,174,447.8	1,438,785	46.9	0.1	.	2,464	1,038
55-64	All	2016	All	All	616	290	42	19	3,897	3,897	1,132,078.5	1,386,830	25.6	0.1	.	42	19
55-64	All	2017	All	All	267	132	6	3	2,065	2,065	595,954.0	1,277,855	22.1	0.1	.	6	3
65-74	All	2000	All	All	649	414	2,572	1,058	4,852	4,852	216,573.8	468,090	191.2	0.1	.	2,572	1,058
65-74	All	2001	All	All	1,449	926	5,424	2,230	10,259	10,259	429,720.2	502,987	215.5	0.1	.	5,424	2,230
65-74	All	2002	All	All	1,430	918	5,776	2,396	10,325	10,325	436,159.6	512,859	210.5	0.1	.	5,776	2,396
65-74	All	2003	All	All	1,490	953	5,624	2,336	10,502	10,502	440,649.3	519,381	216.3	0.1	.	5,624	2,336
65-74	All	2004	All	All	1,477	939	5,512	2,243	10,377	10,377	463,511.5	555,529	202.6	0.1	.	5,512	2,243
65-74	All	2005	All	All	1,455	937	5,446	2,255	10,722	10,722	491,175.9	588,338	190.8	0.1	.	5,446	2,255
65-74	All	2006	All	All	1,388	867	4,896	2,035	10,004	10,004	494,011.3	583,378	175.5	0.1	.	4,896	2,035
65-74	All	2007	All	All	1,351	848	4,246	1,754	9,501	9,501	483,614.2	568,431	175.3	0.1	.	4,246	1,754
65-74	All	2008	All	All	1,564	943	4,532	1,873	9,760	9,760	499,153.6	582,044	188.9	0.1	.	4,532	1,873
65-74	All	2009	All	All	1,374	818	4,156	1,740	9,381	9,381	515,122.2	605,785	158.8	0.1	.	4,156	1,740
65-74	All	2010	All	All	1,534	888	4,032	1,683	9,337	9,337	537,059.1	630,043	165.3	0.1	.	4,032	1,683
65-74	All	2011	All	All	1,639	970	4,150	1,736	9,777	9,777	576,117.9	685,809	168.4	0.1	.	4,150	1,736
65-74	All	2012	All	All	1,786	992	4,590	1,901	10,653	10,653	635,841.5	750,509	156.0	0.1	.	4,590	1,901
65-74	All	2013	All	All	1,836	1,008	4,320	1,822	11,288	11,288	687,697.0	808,601	146.6	0.1	.	4,320	1,822
65-74	All	2014	All	All	2,033	1,058	4,474	1,880	11,773	11,773	730,735.4	852,779	144.8	0.1	.	4,474	1,880
65-74	All	2015	All	All	2,053	1,063	3,712	1,595	11,728	11,728	758,654.9	891,153	140.1	0.1	.	3,712	1,595
65-74	All	2016	All	All	1,513	674	172	78	7,677	7,677	730,208.9	846,716	92.3	0.1	.	172	78
65-74	All	2017	All	All	900	394	20	10	4,200	4,200	408,652.9	821,161	96.4	0.1	.	20	10
75-84	All	2000	All	All	911	569	3,956	1,646	6,782	6,782	127,497.8	275,461	446.3	0.1	.	3,956	1,646
75-84	All	2001	All	All	1,938	1,243	8,276	3,449	14,229	14,229	256,665.1	300,582	484.3	0.1	.	8,276	3,449
75-84	All	2002	All	All	2,198	1,375	8,764	3,665	14,903	14,903	266,035.4	312,660	516.8	0.1	.	8,764	3,665
75-84	All	2003	All	All	2,144	1,366	8,666	3,674	15,498	15,498	273,442.1	320,077	499.6	0.1	.	8,666	3,674
75-84	All	2004	All	All	2,223	1,395	8,654	3,667	15,558	15,558	291,988.8	349,358	477.8	0.1	.	8,654	3,667
75-84	All	2005	All	All	2,435	1,501	8,736	3,659	16,262	16,262	313,036.7	368,763	479.5	0.1	.	8,736	3,659
75-84	All	2006	All	All	2,183	1,373	8,060	3,416	15,905	15,905	316,291.7	368,889	434.1	0.1	.	8,060	3,416
75-84	All	2007	All	All	2,121	1,284	7,378	3,108	14,747	14,747	301,238.9	349,161	426.2	0.1	.	7,378	3,108
75-84	All	2008	All	All	2,108	1,297	7,064	2,972	14,762	14,762	302,581.8	347,822	428.6	0.1	.	7,064	2,972
75-84	All	2009	All	All	2,154	1,275	7,010	2,994	14,351	14,351	302,819.8	350,862	421.0	0.1	.	7,010	2,994
75-84	All	2010	All	All	2,207	1,304	6,582	2,778	14,431	14,431	306,871.0	355,629	424.9	0.1	.	6,582	2,778
75-84	All	2011	All	All	2,387	1,342	6,680	2,847	14,557	14,557	316,725.5	367,894	423.7	0.1	.	6,680	2,847
75-84	All	2012	All	All	2,640	1,461	6,646	2,837	14,987	14,987	327,708.0	379,145	445.8	0.1	.	6,646	2,837
75-84	All	2013	All	All	2,788	1,506	6,696	2,857	15,748	15,748	336,684.8	390,869	447.3	0.1	.	6,696	2,857
75-84	All	2014	All	All	2,795	1,463	6,252	2,660	15,651	15,651	340,735.2	394,433	429.4	0.1	.	6,252	2,660

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category	(Years)	Sex	Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding	Records of Death in Table	Members with Record of Death in	Eligible Member-Years	Eligible Members	Rate of MI-Related	Rate of MI-Related	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
						Death Codes	Death Codes	(COD) Record	Record of COD Record	Death Table	Death Table			per 100,000 Member-Years	Deaths among all			
75-84	All	2015	All	All	2,554	1,379	5,018	2,226	15,571	15,571	340,745.2	401,715	404.7	0.1	.	5,018	2,226	
75-84	All	2016	All	All	2,361	1,102	266	117	10,885	10,885	309,935.8	357,738	355.6	0.1	.	266	117	
75-84	All	2017	All	All	1,175	531	26	13	6,000	6,000	173,081.4	348,067	306.8	0.1	.	26	13	
85+	All	2000	All	All	654	440	3,636	1,511	6,005	6,005	39,010.4	86,336	1127.9	0.1	.	3,636	1,511	
85+	All	2001	All	All	1,313	892	7,450	3,146	12,747	12,747	78,791.1	97,085	1132.1	0.1	.	7,450	3,146	
85+	All	2002	All	All	1,455	994	8,082	3,441	13,478	13,478	82,342.5	102,000	1207.2	0.1	.	8,082	3,441	
85+	All	2003	All	All	1,620	1,056	8,250	3,512	14,116	14,116	86,260.2	106,249	1224.2	0.1	.	8,250	3,512	
85+	All	2004	All	All	1,629	1,075	8,100	3,469	14,352	14,352	93,708.6	118,478	1147.2	0.1	.	8,100	3,469	
85+	All	2005	All	All	1,863	1,189	8,192	3,528	15,532	15,532	103,482.7	127,240	1149.0	0.1	.	8,192	3,528	
85+	All	2006	All	All	1,765	1,169	8,142	3,478	15,423	15,423	108,298.5	132,439	1079.4	0.1	.	8,142	3,478	
85+	All	2007	All	All	1,790	1,154	7,788	3,334	15,368	15,368	109,694.6	132,358	1052.0	0.1	.	7,788	3,334	
85+	All	2008	All	All	1,872	1,200	7,796	3,376	15,822	15,822	114,460.6	137,187	1048.4	0.1	.	7,796	3,376	
85+	All	2009	All	All	1,826	1,162	7,750	3,405	16,138	16,138	119,188.3	142,586	974.9	0.1	.	7,750	3,405	
85+	All	2010	All	All	2,140	1,288	8,080	3,525	16,864	16,864	124,200.8	148,272	1037.0	0.1	.	8,080	3,525	
85+	All	2011	All	All	2,148	1,270	7,980	3,486	17,649	17,649	130,183.2	155,698	975.5	0.1	.	7,980	3,486	
85+	All	2012	All	All	2,551	1,422	8,142	3,523	18,385	18,385	136,653.1	162,343	1040.6	0.1	.	8,142	3,523	
85+	All	2013	All	All	2,608	1,507	8,378	3,649	20,228	20,228	141,050.5	168,277	1068.4	0.1	.	8,378	3,649	
85+	All	2014	All	All	2,838	1,537	7,778	3,384	19,976	19,976	142,225.4	168,830	1080.7	0.1	.	7,778	3,384	
85+	All	2015	All	All	2,823	1,499	6,188	2,833	19,995	19,995	140,405.3	170,222	1067.6	0.1	.	6,188	2,833	
85+	All	2016	All	All	2,314	1,178	326	145	14,858	14,858	124,478.2	146,162	946.4	0.1	.	326	145	
85+	All	2017	All	All	1,413	688	12	6	8,509	8,509	67,758.5	139,086	1015.4	0.1	.	12	6	
All	F	2000	All	All	1,257	849	6,310	2,619	12,841	12,841	1,733,630.5	3,745,400	49.0	0.1	.	6,310	2,619	
All	M	2000	All	All	1,518	929	6,386	2,609	11,511	11,511	1,531,851.8	3,325,431	60.6	0.1	.	6,386	2,609	
All	F	2001	All	All	2,763	1,841	13,092	5,461	27,103	27,103	3,442,534.7	4,021,150	53.5	0.1	.	13,092	5,461	
All	M	2001	All	All	3,101	1,952	13,050	5,386	23,812	23,812	3,040,608.7	3,590,988	64.2	0.1	.	13,050	5,386	
All	F	2002	All	All	3,086	2,026	13,750	5,819	28,230	28,230	3,476,371.4	4,090,749	58.3	0.1	.	13,750	5,819	
All	M	2002	All	All	3,212	2,041	14,242	5,870	24,986	24,986	3,070,504.7	3,653,024	66.5	0.1	.	14,242	5,870	
All	F	2003	All	All	3,000	2,027	13,560	5,728	29,225	29,225	3,467,145.7	4,093,147	58.5	0.1	.	13,560	5,728	
All	M	2003	All	All	3,381	2,094	14,330	5,971	25,513	25,513	3,058,720.8	3,645,352	68.5	0.1	.	14,330	5,971	
All	F	2004	All	All	2,962	1,981	13,386	5,687	29,531	29,531	3,626,632.2	4,358,320	54.6	0.1	.	13,386	5,687	
All	M	2004	All	All	3,482	2,176	14,030	5,781	25,620	25,620	3,194,051.6	3,867,745	68.1	0.1	.	14,030	5,781	
All	F	2005	All	All	3,184	2,073	13,292	5,631	30,932	30,932	3,885,176.6	4,676,687	53.4	0.1	.	13,292	5,631	
All	M	2005	All	All	3,725	2,301	14,424	5,986	26,973	26,973	3,422,380.0	4,153,431	67.2	0.1	.	14,424	5,986	
All	F	2006	All	All	3,043	2,017	12,300	5,262	30,048	30,048	3,995,822.7	4,680,320	50.5	0.1	.	12,300	5,262	
All	M	2006	All	All	3,431	2,117	13,596	5,646	26,091	26,091	3,532,470.9	4,164,176	59.9	0.1	.	13,596	5,646	
All	F	2007	All	All	3,063	2,007	11,728	4,970	29,070	29,070	4,001,162.6	4,664,665	50.2	0.1	.	11,728	4,970	
All	M	2007	All	All	3,449	2,055	12,462	5,167	25,172	25,172	3,548,081.0	4,160,228	57.9	0.1	.	12,462	5,167	
All	F	2008	All	All	3,145	2,060	11,752	4,983	29,411	29,411	4,052,641.0	4,748,304	50.8	0.1	.	11,752	4,983	
All	M	2008	All	All	3,679	2,160	12,086	5,078	25,326	25,326	3,596,476.0	4,239,114	60.1	0.1	.	12,086	5,078	
All	F	2009	All	All	2,985	1,921	11,052	4,791	29,304	29,304	4,117,085.7	4,811,557	46.7	0.1	.	11,052	4,791	
All	M	2009	All	All	3,650	2,127	12,154	5,125	24,947	24,947	3,630,415.1	4,279,461	58.6	0.1	.	12,154	5,125	
All	F	2010	All	All	3,306	2,018	10,766	4,654	29,352	29,352	4,218,318.0	4,910,750	47.8	0.1	.	10,766	4,654	

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding COD Record	Records of Death in Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
Year	Sex	Codes			Codes	(COD) Record	COD Record	Table	Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	MI-Related	Related	
All	M	2010	All	All	3,765	2,187	12,046	5,035	25,133	25,133	3,700,014.3	4,345,374	59.1	0.1	.	12,046	5,035
All	F	2011	All	All	3,204	2,008	10,462	4,532	30,306	30,306	4,323,540.1	5,015,224	46.4	0.1	.	10,462	4,532
All	M	2011	All	All	4,276	2,359	12,286	5,166	25,920	25,920	3,797,166.9	4,439,438	62.1	0.1	.	12,286	5,166
All	F	2012	All	All	3,765	2,189	10,890	4,676	31,507	31,507	4,394,360.3	5,051,941	49.8	0.1	.	10,890	4,676
All	M	2012	All	All	4,526	2,464	12,788	5,363	27,197	27,197	3,869,058.6	4,475,602	63.7	0.1	.	12,788	5,363
All	F	2013	All	All	3,703	2,224	10,634	4,600	32,905	32,905	4,395,345.2	5,074,204	50.6	0.1	.	10,634	4,600
All	M	2013	All	All	4,920	2,631	12,576	5,299	28,674	28,674	3,883,250.5	4,505,064	67.8	0.1	.	12,576	5,299
All	F	2014	All	All	4,102	2,264	10,290	4,436	33,361	33,361	4,496,695.3	5,222,592	50.3	0.1	.	10,290	4,436
All	M	2014	All	All	5,002	2,577	12,076	5,073	28,641	28,641	3,977,089.9	4,667,232	64.8	0.1	.	12,076	5,073
All	F	2015	All	All	4,038	2,228	8,836	3,907	33,484	33,484	4,659,689.2	5,397,787	47.8	0.1	.	8,836	3,907
All	M	2015	All	All	4,836	2,509	9,798	4,318	28,634	28,634	4,125,061.8	4,837,919	60.8	0.1	.	9,798	4,318
All	F	2016	All	All	2,900	1,437	282	127	20,473	20,473	3,946,765.6	4,611,176	36.4	0.1	.	282	127
All	M	2016	All	All	4,178	1,933	538	239	19,446	19,446	3,656,092.1	4,317,998	52.9	0.1	.	538	239
All	F	2017	All	All	1,552	764	32	16	11,233	11,233	2,071,128.6	4,325,660	36.9	0.1	.	32	16
All	M	2017	All	All	2,293	1,031	32	16	10,777	10,777	1,908,073.0	4,023,416	54.0	0.1	.	32	16
<45	F	2000	All	All	19	14	80	32	727	727	1,080,761.2	2,396,652	1.3	0.0	.	80	32
<45	M	2000	All	All	23	13	124	55	1,023	1,023	992,833.9	2,209,351	1.3	0.0	.	124	55
<45	F	2001	All	All	57	31	194	81	1,466	1,466	2,137,799.7	2,614,368	1.5	0.0	.	194	81
<45	M	2001	All	All	37	27	320	136	2,103	2,103	1,965,777.2	2,423,688	1.4	0.0	.	320	136
<45	F	2002	All	All	35	28	162	69	1,521	1,521	2,130,649.6	2,632,375	1.3	0.0	.	162	69
<45	M	2002	All	All	80	53	400	168	2,275	2,275	1,963,582.1	2,442,600	2.7	0.0	.	400	168
<45	F	2003	All	All	31	26	150	67	1,542	1,542	2,091,318.3	2,599,056	1.2	0.0	.	150	67
<45	M	2003	All	All	67	51	390	164	2,018	2,018	1,925,676.8	2,403,938	2.6	0.0	.	390	164
<45	F	2004	All	All	39	28	170	71	1,563	1,563	2,155,321.2	2,715,255	1.3	0.0	.	170	71
<45	M	2004	All	All	42	29	320	135	2,061	2,061	1,980,067.9	2,502,247	1.5	0.0	.	320	135
<45	F	2005	All	All	36	25	160	67	1,491	1,491	2,287,699.5	2,893,988	1.1	0.0	.	160	67
<45	M	2005	All	All	54	35	326	134	2,105	2,105	2,100,357.3	2,667,845	1.7	0.0	.	326	134
<45	F	2006	All	All	29	22	146	65	1,426	1,426	2,358,068.9	2,903,840	0.9	0.0	.	146	65
<45	M	2006	All	All	46	31	312	132	1,882	1,882	2,168,631.5	2,676,725	1.4	0.0	.	312	132
<45	F	2007	All	All	45	28	146	59	1,406	1,406	2,355,718.1	2,894,205	1.2	0.0	.	146	59
<45	M	2007	All	All	50	30	274	114	1,913	1,913	2,173,079.4	2,671,059	1.4	0.0	.	274	114
<45	F	2008	All	All	39	29	108	47	1,282	1,282	2,374,122.5	2,937,544	1.2	0.0	.	108	47
<45	M	2008	All	All	35	27	246	100	1,759	1,759	2,191,009.5	2,711,424	1.2	0.0	.	246	100
<45	F	2009	All	All	36	31	134	54	1,357	1,357	2,405,712.3	2,954,419	1.3	0.0	.	134	54
<45	M	2009	All	All	51	33	210	89	1,680	1,680	2,202,210.8	2,713,705	1.5	0.0	.	210	89
<45	F	2010	All	All	38	26	90	36	1,307	1,307	2,464,819.5	3,005,342	1.1	0.0	.	90	36
<45	M	2010	All	All	50	27	202	81	1,637	1,637	2,239,726.7	2,741,892	1.2	0.0	.	202	81
<45	F	2011	All	All	44	30	94	44	1,264	1,264	2,514,107.1	3,050,258	1.2	0.0	.	94	44
<45	M	2011	All	All	44	29	220	84	1,606	1,606	2,290,128.1	2,789,539	1.3	0.0	.	220	84
<45	F	2012	All	All	36	23	122	53	1,340	1,340	2,539,938.2	3,052,212	0.9	0.0	.	122	53
<45	M	2012	All	All	61	35	194	81	1,674	1,674	2,322,342.5	2,796,101	1.5	0.0	.	194	81
<45	F	2013	All	All	39	29	74	31	1,245	1,245	2,514,879.4	3,037,621	1.2	0.0	.	74	31

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding	Records of Death in Table	Members with Record of Death in Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Death Table	Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	Death Rate	COD Codes
<45	M	2013	All	All	63	45	204	84	1,661	1,661	2,308,872.5	2,788,356	1.9	0.0	.	204	84
<45	F	2014	All	All	51	30	118	50	1,299	1,299	2,579,600.7	3,108,031	1.2	0.0	.	118	50
<45	M	2014	All	All	46	33	174	72	1,698	1,698	2,365,388.4	2,874,449	1.4	0.0	.	174	72
<45	F	2015	All	All	53	27	114	52	1,400	1,400	2,700,928.9	3,239,095	1.0	0.0	.	114	52
<45	M	2015	All	All	53	34	172	72	1,788	1,788	2,470,963.9	2,997,121	1.4	0.0	.	172	72
<45	F	2016	All	All	23	13	0	0	442	442	2,116,349.3	2,602,784	0.6	0.0	.	0	0
<45	M	2016	All	All	30	19	2	1	709	709	2,058,558.2	2,551,698	0.9	0.0	.	2	1
<45	F	2017	All	All	5	3	0	0	221	221	1,092,466.8	2,375,185	0.3	0.0	.	0	0
<45	M	2017	All	All	13	10	0	0	324	324	1,059,826.3	2,316,190	0.9	0.0	.	0	0
45-54	F	2000	All	All	54	33	216	85	750	750	255,394.0	561,436	12.9	0.0	.	216	85
45-54	M	2000	All	All	93	58	468	187	1,027	1,027	228,239.7	502,599	25.4	0.1	.	468	187
45-54	F	2001	All	All	131	85	486	193	1,639	1,639	507,735.0	616,631	16.7	0.1	.	486	193
45-54	M	2001	All	All	209	120	1,000	397	2,195	2,195	453,954.9	555,216	26.4	0.1	.	1,000	397
45-54	F	2002	All	All	150	98	474	195	1,688	1,688	513,978.7	632,245	19.1	0.1	.	474	195
45-54	M	2002	All	All	177	110	980	401	2,299	2,299	459,227.3	570,112	24.0	0.0	.	980	401
45-54	F	2003	All	All	93	63	440	183	1,735	1,735	517,359.2	636,311	12.2	0.0	.	440	183
45-54	M	2003	All	All	179	126	1,086	443	2,476	2,476	462,992.2	574,030	27.2	0.1	.	1,086	443
45-54	F	2004	All	All	108	71	432	180	1,848	1,848	549,661.4	693,435	12.9	0.0	.	432	180
45-54	M	2004	All	All	158	110	1,112	436	2,347	2,347	490,137.5	621,111	22.4	0.0	.	1,112	436
45-54	F	2005	All	All	139	84	504	209	1,938	1,938	597,781.7	756,978	14.1	0.0	.	504	209
45-54	M	2005	All	All	185	124	1,094	441	2,519	2,519	530,159.3	675,148	23.4	0.0	.	1,094	441
45-54	F	2006	All	All	109	70	392	161	1,867	1,867	613,986.6	751,743	11.4	0.0	.	392	161
45-54	M	2006	All	All	178	122	974	393	2,401	2,401	545,536.6	672,456	22.4	0.1	.	974	393
45-54	F	2007	All	All	80	58	382	158	1,695	1,695	618,852.1	753,503	9.4	0.0	.	382	158
45-54	M	2007	All	All	224	128	930	380	2,327	2,327	550,528.4	675,301	23.3	0.1	.	930	380
45-54	F	2008	All	All	124	84	454	190	1,784	1,784	623,417.7	763,509	13.5	0.0	.	454	190
45-54	M	2008	All	All	148	107	834	342	2,301	2,301	555,953.5	685,297	19.2	0.0	.	834	342
45-54	F	2009	All	All	149	96	376	157	1,811	1,811	626,816.9	770,086	15.3	0.1	.	376	157
45-54	M	2009	All	All	216	129	816	346	2,271	2,271	555,656.9	689,415	23.2	0.1	.	816	346
45-54	F	2010	All	All	112	76	430	179	1,669	1,669	631,377.8	775,255	12.0	0.0	.	430	179
45-54	M	2010	All	All	173	106	798	331	2,113	2,113	557,163.0	691,122	19.0	0.1	.	798	331
45-54	F	2011	All	All	124	86	360	148	1,770	1,770	634,619.5	775,898	13.6	0.0	.	360	148
45-54	M	2011	All	All	195	114	708	300	2,153	2,153	560,063.0	690,575	20.4	0.1	.	708	300
45-54	F	2012	All	All	110	74	412	175	1,746	1,746	629,675.6	763,771	11.8	0.0	.	412	175
45-54	M	2012	All	All	227	130	782	306	2,203	2,203	557,490.0	681,069	23.3	0.1	.	782	306
45-54	F	2013	All	All	104	70	356	149	1,684	1,684	618,144.8	755,276	11.3	0.0	.	356	149
45-54	M	2013	All	All	221	129	706	285	2,010	2,010	550,758.2	677,660	23.4	0.1	.	706	285
45-54	F	2014	All	All	102	68	368	154	1,717	1,717	619,250.4	778,289	11.0	0.0	.	368	154
45-54	M	2014	All	All	144	88	610	246	2,045	2,045	554,544.6	703,114	15.9	0.0	.	610	246
45-54	F	2015	All	All	106	62	346	150	1,710	1,710	631,364.9	790,242	9.8	0.0	.	346	150
45-54	M	2015	All	All	205	122	620	259	1,972	1,972	567,175.2	717,070	21.5	0.1	.	620	259
45-54	F	2016	All	All	54	27	0	0	617	617	587,967.0	734,596	4.6	0.0	.	0	0

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding	Records of Death in Table	Members with Record of Death in	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized	MI-Related COD Codes	Members with MI-Related COD
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Death	Death Table			Death Table	Rate of MI-Related Death per 100,000	Deaths	Death Rate	COD Codes
45-54	M	2016	All	All	167	67	12	6	834	834	543,242.2	683,736	12.3	0.1	.	12	6
45-54	F	2017	All	All	33	16	0	0	297	297	303,182.9	659,718	5.3	0.1	.	0	0
45-54	M	2017	All	All	39	21	0	0	394	394	278,272.7	611,640	7.5	0.1	.	0	0
55-64	F	2000	All	All	119	92	556	224	1,347	1,347	172,724.7	375,655	53.3	0.1	.	556	224
55-64	M	2000	All	All	253	145	1,088	430	1,839	1,839	152,393.4	332,185	95.1	0.1	.	1,088	430
55-64	F	2001	All	All	251	169	992	412	2,752	2,752	347,548.2	417,640	48.6	0.1	.	992	412
55-64	M	2001	All	All	479	300	2,000	803	3,525	3,525	305,052.2	369,447	98.3	0.1	.	2,000	803
55-64	F	2002	All	All	297	191	1,138	478	2,884	2,884	370,221.7	445,468	51.6	0.1	.	1,138	478
55-64	M	2002	All	All	476	300	2,216	876	3,843	3,843	324,567.1	393,900	92.4	0.1	.	2,216	876
55-64	F	2003	All	All	230	153	994	404	3,040	3,040	388,213.0	465,729	39.4	0.1	.	994	404
55-64	M	2003	All	All	527	327	2,290	916	3,811	3,811	339,854.1	411,343	96.2	0.1	.	2,290	916
55-64	F	2004	All	All	269	185	1,064	452	3,060	3,060	423,803.1	521,473	43.7	0.1	.	1,064	452
55-64	M	2004	All	All	499	325	2,052	815	3,985	3,985	372,392.2	461,700	87.3	0.1	.	2,052	815
55-64	F	2005	All	All	265	184	1,112	459	3,215	3,215	469,383.5	578,893	39.2	0.1	.	1,112	459
55-64	M	2005	All	All	477	295	2,146	865	4,121	4,121	414,310.9	512,529	71.2	0.1	.	2,146	865
55-64	F	2006	All	All	270	181	1,062	441	3,241	3,241	488,581.2	583,363	37.0	0.1	.	1,062	441
55-64	M	2006	All	All	506	299	1,912	787	3,990	3,990	434,659.1	520,343	68.8	0.1	.	1,912	787
55-64	F	2007	All	All	322	215	1,048	437	3,198	3,198	506,395.4	599,950	42.5	0.1	.	1,048	437
55-64	M	2007	All	All	529	317	1,998	793	4,087	4,087	449,900.8	535,822	70.5	0.1	.	1,998	793
55-64	F	2008	All	All	365	220	998	410	3,206	3,206	523,700.6	621,959	42.0	0.1	.	998	410
55-64	M	2008	All	All	569	313	1,806	751	4,061	4,061	464,510.2	555,253	67.4	0.1	.	1,806	751
55-64	F	2009	All	All	273	185	868	376	3,183	3,183	543,085.3	647,933	34.1	0.1	.	868	376
55-64	M	2009	All	All	556	319	1,886	755	4,079	4,079	476,689.9	574,124	66.9	0.1	.	1,886	755
55-64	F	2010	All	All	294	177	838	361	3,077	3,077	565,237.1	672,592	31.3	0.1	.	838	361
55-64	M	2010	All	All	523	313	1,760	715	4,050	4,050	491,716.0	591,359	63.7	0.1	.	1,760	715
55-64	F	2011	All	All	291	192	796	341	3,341	3,341	588,609.2	700,600	32.6	0.1	.	796	341
55-64	M	2011	All	All	608	334	1,760	712	4,109	4,109	510,019.7	612,006	65.5	0.1	.	1,760	712
55-64	F	2012	All	All	301	192	926	399	3,416	3,416	596,928.9	709,994	32.2	0.1	.	926	399
55-64	M	2012	All	All	579	324	1,864	764	4,300	4,300	516,725.0	618,962	62.7	0.1	.	1,864	764
55-64	F	2013	All	All	367	220	870	369	3,457	3,457	599,356.4	714,068	36.7	0.1	.	870	369
55-64	M	2013	All	All	597	341	1,606	653	4,258	4,258	521,048.9	625,259	65.4	0.1	.	1,606	653
55-64	F	2014	All	All	387	212	910	380	3,534	3,534	609,383.5	747,915	34.8	0.1	.	910	380
55-64	M	2014	All	All	708	352	1,682	683	4,309	4,309	531,844.8	657,095	66.2	0.1	.	1,682	683
55-64	F	2015	All	All	402	226	940	392	3,447	3,447	625,932.1	764,065	36.1	0.1	.	940	392
55-64	M	2015	All	All	625	325	1,524	646	4,507	4,507	548,515.7	674,720	59.3	0.1	.	1,524	646
55-64	F	2016	All	All	193	97	14	7	1,718	1,718	600,903.4	734,067	16.1	0.1	.	14	7
55-64	M	2016	All	All	423	193	28	12	2,179	2,179	531,175.0	652,763	36.3	0.1	.	28	12
55-64	F	2017	All	All	69	45	4	2	908	908	317,606.2	677,842	14.2	0.0	.	4	2
55-64	M	2017	All	All	198	87	2	1	1,157	1,157	278,347.8	600,013	31.3	0.1	.	2	1
65-74	F	2000	All	All	247	166	1,032	428	2,245	2,245	119,437.5	257,853	139.0	0.1	.	1,032	428
65-74	M	2000	All	All	402	248	1,540	630	2,607	2,607	97,136.4	210,237	255.3	0.1	.	1,540	630
65-74	F	2001	All	All	577	381	2,166	897	4,840	4,840	237,284.4	276,911	160.6	0.1	.	2,166	897

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding	Records of Death in Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Table	Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	Death Rate	COD Codes
65-74	M	2001	All	All	872	545	3,258	1,333	5,419	5,419	192,435.8	226,076	283.2	0.1	.	3,258	1,333
65-74	F	2002	All	All	641	415	2,374	1,000	4,838	4,838	241,336.9	282,340	172.0	0.1	.	2,374	1,000
65-74	M	2002	All	All	789	503	3,402	1,396	5,487	5,487	194,822.7	230,519	258.2	0.1	.	3,402	1,396
65-74	F	2003	All	All	618	407	2,222	932	4,964	4,964	243,355.4	285,560	167.2	0.1	.	2,222	932
65-74	M	2003	All	All	872	546	3,402	1,404	5,538	5,538	197,293.9	233,821	276.7	0.1	.	3,402	1,404
65-74	F	2004	All	All	577	385	2,200	911	4,945	4,945	255,556.2	304,936	150.7	0.1	.	2,200	911
65-74	M	2004	All	All	900	554	3,312	1,332	5,432	5,432	207,955.3	250,593	266.4	0.1	.	3,312	1,332
65-74	F	2005	All	All	596	392	2,102	869	5,045	5,045	269,889.5	321,815	145.2	0.1	.	2,102	869
65-74	M	2005	All	All	859	545	3,344	1,386	5,677	5,677	221,286.4	266,523	246.3	0.1	.	3,344	1,386
65-74	F	2006	All	All	597	385	1,904	815	4,707	4,707	270,691.8	318,259	142.2	0.1	.	1,904	815
65-74	M	2006	All	All	791	482	2,992	1,220	5,297	5,297	223,319.4	265,119	215.8	0.1	.	2,992	1,220
65-74	F	2007	All	All	545	362	1,754	734	4,515	4,515	264,387.5	309,472	136.9	0.1	.	1,754	734
65-74	M	2007	All	All	806	486	2,492	1,020	4,986	4,986	219,226.7	258,959	221.7	0.1	.	2,492	1,020
65-74	F	2008	All	All	602	391	1,738	732	4,609	4,609	272,685.5	316,469	143.4	0.1	.	1,738	732
65-74	M	2008	All	All	962	552	2,794	1,141	5,151	5,151	226,468.1	265,575	243.7	0.1	.	2,794	1,141
65-74	F	2009	All	All	524	328	1,612	696	4,541	4,541	280,834.9	328,997	116.8	0.1	.	1,612	696
65-74	M	2009	All	All	850	490	2,544	1,044	4,840	4,840	234,287.3	276,788	209.1	0.1	.	2,544	1,044
65-74	F	2010	All	All	635	371	1,588	669	4,449	4,449	292,102.2	341,460	127.0	0.1	.	1,588	669
65-74	M	2010	All	All	899	517	2,444	1,014	4,888	4,888	244,956.9	288,583	211.1	0.1	.	2,444	1,014
65-74	F	2011	All	All	598	381	1,492	638	4,560	4,560	312,986.6	371,236	121.7	0.1	.	1,492	638
65-74	M	2011	All	All	1,041	589	2,658	1,098	5,217	5,217	263,131.3	314,573	223.8	0.1	.	2,658	1,098
65-74	F	2012	All	All	685	407	1,736	726	5,099	5,099	345,312.2	406,514	117.9	0.1	.	1,736	726
65-74	M	2012	All	All	1,101	585	2,854	1,175	5,554	5,554	290,529.3	343,995	201.4	0.1	.	2,854	1,175
65-74	F	2013	All	All	678	418	1,562	665	5,258	5,258	373,758.5	438,193	111.8	0.1	.	1,562	665
65-74	M	2013	All	All	1,158	590	2,758	1,157	6,030	6,030	313,938.5	370,408	187.9	0.1	.	2,758	1,157
65-74	F	2014	All	All	843	459	1,702	726	5,575	5,575	397,355.3	462,563	115.5	0.1	.	1,702	726
65-74	M	2014	All	All	1,190	599	2,772	1,154	6,198	6,198	333,380.1	390,216	179.7	0.1	.	2,772	1,154
65-74	F	2015	All	All	856	443	1,536	658	5,630	5,630	413,028.1	483,243	107.3	0.1	.	1,536	658
65-74	M	2015	All	All	1,197	620	2,176	937	6,098	6,098	345,626.8	407,910	179.4	0.1	.	2,176	937
65-74	F	2016	All	All	552	266	38	18	3,540	3,540	391,317.0	452,219	68.0	0.1	.	38	18
65-74	M	2016	All	All	961	408	134	60	4,137	4,137	338,891.8	394,497	120.4	0.1	.	134	60
65-74	F	2017	All	All	303	132	12	6	1,862	1,862	219,702.2	439,966	60.1	0.1	.	12	6
65-74	M	2017	All	All	597	262	8	4	2,338	2,338	188,950.7	381,195	138.7	0.1	.	8	4
75-84	F	2000	All	All	409	263	1,988	829	3,634	3,634	77,579.9	167,411	339.0	0.1	.	1,988	829
75-84	M	2000	All	All	502	306	1,968	817	3,148	3,148	49,918.0	108,050	613.0	0.1	.	1,968	817
75-84	F	2001	All	All	940	613	4,194	1,726	7,694	7,694	156,294.1	182,441	392.2	0.1	.	4,194	1,726
75-84	M	2001	All	All	998	630	4,082	1,723	6,535	6,535	100,371.0	118,141	627.7	0.1	.	4,082	1,723
75-84	F	2002	All	All	1,096	693	4,352	1,840	8,115	8,115	161,884.8	189,741	428.1	0.1	.	4,352	1,840
75-84	M	2002	All	All	1,102	682	4,412	1,825	6,788	6,788	104,150.6	122,919	654.8	0.1	.	4,412	1,825
75-84	F	2003	All	All	1,049	716	4,234	1,797	8,341	8,341	166,153.3	193,858	430.9	0.1	.	4,234	1,797
75-84	M	2003	All	All	1,095	650	4,432	1,877	7,157	7,157	107,288.8	126,219	605.8	0.1	.	4,432	1,877
75-84	F	2004	All	All	1,062	697	4,252	1,817	8,440	8,440	176,729.6	210,446	394.4	0.1	.	4,252	1,817

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death, Secondary Analysis

Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death	Members with Record of Death and Corresponding COD Record	Records of Death in Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Table	Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	COD Codes	Codes
75-84	M	2004	All	All	1,161	698	4,402	1,850	7,118	7,118	115,259.2	138,912	605.6	0.1	.	4,402	1,850
75-84	F	2005	All	All	1,100	696	4,190	1,762	8,744	8,744	188,428.5	220,979	369.4	0.1	.	4,190	1,762
75-84	M	2005	All	All	1,335	805	4,546	1,897	7,518	7,518	124,608.2	147,784	646.0	0.1	.	4,546	1,897
75-84	F	2006	All	All	981	651	3,752	1,608	8,560	8,560	189,562.8	220,244	343.4	0.1	.	3,752	1,608
75-84	M	2006	All	All	1,202	722	4,308	1,808	7,345	7,345	126,728.9	148,645	569.7	0.1	.	4,308	1,808
75-84	F	2007	All	All	1,017	633	3,504	1,482	7,956	7,956	180,178.9	208,173	351.3	0.1	.	3,504	1,482
75-84	M	2007	All	All	1,104	651	3,874	1,626	6,791	6,791	121,060.0	140,988	537.7	0.1	.	3,874	1,626
75-84	F	2008	All	All	970	635	3,462	1,454	7,943	7,943	180,099.2	206,458	352.6	0.1	.	3,462	1,454
75-84	M	2008	All	All	1,138	662	3,602	1,518	6,819	6,819	122,482.6	141,364	540.5	0.1	.	3,602	1,518
75-84	F	2009	All	All	943	599	3,256	1,385	7,702	7,702	179,114.6	207,212	334.4	0.1	.	3,256	1,385
75-84	M	2009	All	All	1,211	676	3,754	1,609	6,649	6,649	123,705.2	143,650	546.5	0.1	.	3,754	1,609
75-84	F	2010	All	All	1,009	606	2,892	1,249	7,704	7,704	180,268.3	208,540	336.2	0.1	.	2,892	1,249
75-84	M	2010	All	All	1,198	698	3,690	1,529	6,727	6,727	126,602.7	147,089	551.3	0.1	.	3,690	1,529
75-84	F	2011	All	All	1,016	613	3,080	1,315	7,799	7,799	184,951.2	214,480	331.4	0.1	.	3,080	1,315
75-84	M	2011	All	All	1,371	729	3,600	1,532	6,758	6,758	131,774.3	153,414	553.2	0.1	.	3,600	1,532
75-84	F	2012	All	All	1,213	706	3,012	1,297	7,991	7,991	190,305.5	219,855	371.0	0.1	.	3,012	1,297
75-84	M	2012	All	All	1,427	755	3,634	1,540	6,996	6,996	137,402.5	159,290	549.5	0.1	.	3,634	1,540
75-84	F	2013	All	All	1,171	664	2,986	1,288	8,207	8,207	194,490.2	225,326	341.4	0.1	.	2,986	1,288
75-84	M	2013	All	All	1,617	842	3,710	1,569	7,541	7,541	142,194.6	165,543	592.1	0.1	.	3,710	1,569
75-84	F	2014	All	All	1,184	636	2,704	1,168	8,201	8,201	195,966.9	226,464	324.5	0.1	.	2,704	1,168
75-84	M	2014	All	All	1,611	827	3,548	1,492	7,450	7,450	144,768.3	167,969	571.3	0.1	.	3,548	1,492
75-84	F	2015	All	All	1,101	622	2,274	992	8,277	8,277	195,356.5	229,547	318.4	0.1	.	2,274	992
75-84	M	2015	All	All	1,453	757	2,744	1,234	7,294	7,294	145,388.7	172,168	520.7	0.1	.	2,744	1,234
75-84	F	2016	All	All	963	445	86	37	5,239	5,239	171,372.4	197,280	259.7	0.1	.	86	37
75-84	M	2016	All	All	1,398	657	180	80	5,646	5,646	138,563.3	160,458	474.2	0.1	.	180	80
75-84	F	2017	All	All	455	221	12	6	2,931	2,931	95,456.9	191,898	231.5	0.1	.	12	6
75-84	M	2017	All	All	720	310	14	7	3,069	3,069	77,624.4	156,169	399.4	0.1	.	14	7
85+	F	2000	All	All	409	281	2,438	1,021	4,138	4,138	27,713.0	61,107	1014.0	0.1	.	2,438	1,021
85+	M	2000	All	All	245	159	1,198	490	1,867	1,867	11,297.4	25,229	1407.4	0.1	.	1,198	490
85+	F	2001	All	All	807	562	5,060	2,152	8,712	8,712	55,835.2	68,364	1006.5	0.1	.	5,060	2,152
85+	M	2001	All	All	506	330	2,390	994	4,035	4,035	22,955.9	28,721	1437.5	0.1	.	2,390	994
85+	F	2002	All	All	867	601	5,250	2,237	9,184	9,184	58,256.6	71,578	1031.6	0.1	.	5,250	2,237
85+	M	2002	All	All	588	393	2,832	1,204	4,294	4,294	24,085.9	30,422	1631.7	0.1	.	2,832	1,204
85+	F	2003	All	All	979	662	5,520	2,345	9,603	9,603	60,710.0	74,336	1090.4	0.1	.	5,520	2,345
85+	M	2003	All	All	641	394	2,730	1,167	4,513	4,513	25,550.3	31,913	1542.1	0.1	.	2,730	1,167
85+	F	2004	All	All	907	615	5,268	2,256	9,675	9,675	65,522.9	82,223	938.6	0.1	.	5,268	2,256
85+	M	2004	All	All	722	460	2,832	1,213	4,677	4,677	28,185.7	36,255	1632.0	0.1	.	2,832	1,213
85+	F	2005	All	All	1,048	692	5,224	2,265	10,499	10,499	71,913.9	87,754	962.3	0.1	.	5,224	2,265
85+	M	2005	All	All	815	497	2,968	1,263	5,033	5,033	31,568.8	39,486	1574.3	0.1	.	2,968	1,263
85+	F	2006	All	All	1,057	708	5,044	2,172	10,247	10,247	74,824.2	90,863	946.2	0.1	.	5,044	2,172
85+	M	2006	All	All	708	461	3,098	1,306	5,176	5,176	33,474.3	41,576	1377.2	0.1	.	3,098	1,306
85+	F	2007	All	All	1,054	711	4,894	2,100	10,300	10,300	75,529.8	90,702	941.4	0.1	.	4,894	2,100

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Age Category			Race	Hispanic	MI-Related Death	Members with MI-Related Death	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of MI-Related Death per 100,000 Member-Years	Rate of MI-Related Death among all	Age Standardized Death Rate	MI-Related COD Codes	Members with MI-Related COD Codes
(Years)	Sex	Year			Codes	Codes	(COD) Record	COD Record	Death Table	Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	Death Rate	COD Codes
85+	M	2007	All	All	736	443	2,894	1,234	5,068	5,068	34,164.8	41,656	1296.7	0.1	.	2,894	1,234
85+	F	2008	All	All	1,045	701	4,992	2,150	10,587	10,587	78,527.5	93,667	892.7	0.1	.	4,992	2,150
85+	M	2008	All	All	827	499	2,804	1,226	5,235	5,235	35,933.1	43,520	1388.7	0.1	.	2,804	1,226
85+	F	2009	All	All	1,060	682	4,806	2,123	10,710	10,710	81,434.6	96,935	837.5	0.1	.	4,806	2,123
85+	M	2009	All	All	766	480	2,944	1,282	5,428	5,428	37,753.6	45,651	1271.4	0.1	.	2,944	1,282
85+	F	2010	All	All	1,218	762	4,928	2,160	11,146	11,146	84,441.0	100,334	902.4	0.1	.	4,928	2,160
85+	M	2010	All	All	922	526	3,152	1,365	5,718	5,718	39,759.8	47,938	1322.9	0.1	.	3,152	1,365
85+	F	2011	All	All	1,131	706	4,640	2,046	11,572	11,572	88,205.7	104,823	800.4	0.1	.	4,640	2,046
85+	M	2011	All	All	1,017	564	3,340	1,440	6,077	6,077	41,977.5	50,875	1343.6	0.1	.	3,340	1,440
85+	F	2012	All	All	1,420	787	4,682	2,026	11,915	11,915	92,146.9	108,812	854.1	0.1	.	4,682	2,026
85+	M	2012	All	All	1,131	635	3,460	1,497	6,470	6,470	44,506.2	53,531	1426.8	0.1	.	3,460	1,497
85+	F	2013	All	All	1,344	823	4,786	2,098	13,054	13,054	94,665.2	112,244	869.4	0.1	.	4,786	2,098
85+	M	2013	All	All	1,264	684	3,592	1,551	7,174	7,174	46,385.4	56,033	1474.6	0.1	.	3,592	1,551
85+	F	2014	All	All	1,535	859	4,488	1,958	13,035	13,035	95,101.8	112,218	903.2	0.1	.	4,488	1,958
85+	M	2014	All	All	1,303	678	3,290	1,426	6,941	6,941	47,123.6	56,612	1438.8	0.1	.	3,290	1,426
85+	F	2015	All	All	1,520	848	3,626	1,663	13,020	13,020	93,053.1	112,023	911.3	0.1	.	3,626	1,663
85+	M	2015	All	All	1,303	651	2,562	1,170	6,975	6,975	47,352.2	58,199	1374.8	0.1	.	2,562	1,170
85+	F	2016	All	All	1,115	589	144	65	8,917	8,917	78,839.2	91,760	747.1	0.1	.	144	65
85+	M	2016	All	All	1,199	589	182	80	5,941	5,941	45,639.0	54,402	1290.6	0.1	.	182	80
85+	F	2017	All	All	687	347	4	2	5,014	5,014	42,709.9	87,291	812.5	0.1	.	4	2
85+	M	2017	All	All	726	341	8	4	3,495	3,495	25,048.6	51,795	1361.4	0.1	.	8	4
All	All	All	American Indian/Alaskan Native	All	681	326	1,596	660	3,708	3,708	690,475.0	111,257	47.2	0.1	.	1,596	660
All	All	All	Asian	All	7,031	3,781	15,144	6,328	42,422	42,422	11,575,696.2	1,664,660	32.7	0.1	.	15,144	6,328
All	All	All	Black/African American	All	9,670	6,408	36,566	15,344	95,701	95,701	12,651,408.7	1,960,046	50.7	0.1	.	36,566	15,344
All	All	All	Native Hawaiian/Pacific Islander	All	1,129	609	2,562	1,056	6,333	6,333	1,523,448.1	212,529	40.0	0.1	.	2,562	1,056
All	All	All	Unknown	All	16,580	8,928	48,490	20,732	135,667	135,667	38,430,210.1	11,188,504	23.2	0.1	.	48,490	20,732
All	All	All	White	All	86,391	51,525	276,956	116,907	648,858	648,858	63,974,175.1	9,575,649	80.5	0.1	.	276,956	116,907
All	All	All		No	48,287	31,630	188,462	79,104	421,413	421,413	37,119,593.6	6,021,371	85.2	0.1	.	188,462	79,104
All	All	All		Unknown	65,929	36,073	176,718	75,138	467,681	467,681	79,109,298.1	16,744,922	45.6	0.1	.	176,718	75,138
All	All	All		Yes	7,266	3,874	16,134	6,785	43,595	43,595	12,616,521.6	1,946,352	30.7	0.1	.	16,134	6,785

Table 2a. Number of Myocardial Infarction (MI)-Related Cause of Death (COD) Codes, Secondary Analysis, by Source

Source	Aggregate
N: National Death Index	7,768
S: State Death Files	369,260
L: Other, locally defined	3,268
T: Tumor Data	1,018
Total	381,314

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
All	All	All	All	All	80,275	47,167	27,074	13,242	932,689	932,689	128,845,413	24,712,645	36.6	0.1	36.0	27,074	13,242
<45	All	All	All	All	2,842	1,753	1,602	775	52,215	52,215	76,679,294.5	18,007,648	2.3	0.0	.	1,602	775
45-54	All	All	All	All	4,830	2,792	2,760	1,340	63,852	63,852	19,081,661.5	5,278,030	14.6	0.0	.	2,760	1,340
55-64	All	All	All	All	9,692	5,442	4,236	2,066	118,234	118,234	16,401,336.4	4,174,214	33.2	0.0	.	4,236	2,066
65-74	All	All	All	All	15,537	8,841	5,374	2,619	172,116	172,116	9,534,659.2	2,279,937	92.7	0.1	.	5,374	2,619
75-84	All	All	All	All	24,611	14,340	7,766	3,816	250,827	250,827	5,204,085.1	1,169,299	275.6	0.1	.	7,766	3,816
85+	All	All	All	All	22,763	13,999	5,336	2,626	275,445	275,445	1,942,192.3	512,834	720.8	0.1	.	5,336	2,626
All	F	All	All	All	44,512	26,913	15,272	7,455	498,316	498,316	68,304,045.5	12,757,524	39.4	0.1	.	15,272	7,455
All	M	All	All	All	35,763	20,254	11,802	5,787	434,373	434,373	60,541,367.8	11,955,121	33.5	0.0	.	11,802	5,787
<45	F	All	All	All	1,398	860	872	417	22,299	22,299	39,900,261.3	9,189,785	2.2	0.0	.	872	417
<45	M	All	All	All	1,444	893	730	358	29,916	29,916	36,779,033.2	8,817,863	2.4	0.0	.	730	358
45-54	F	All	All	All	2,397	1,380	1,410	684	27,965	27,965	10,080,566.2	2,748,205	13.7	0.0	.	1,410	684
45-54	M	All	All	All	2,433	1,412	1,350	656	35,887	35,887	9,001,095.3	2,529,825	15.7	0.0	.	1,350	656
55-64	F	All	All	All	4,422	2,554	2,154	1,041	52,024	52,024	8,737,613.7	2,192,926	29.2	0.0	.	2,154	1,041
55-64	M	All	All	All	5,270	2,888	2,082	1,025	66,210	66,210	7,663,722.8	1,981,288	37.7	0.0	.	2,082	1,025
65-74	F	All	All	All	7,363	4,362	2,728	1,319	81,222	81,222	5,201,021.6	1,223,070	83.9	0.1	.	2,728	1,319
65-74	M	All	All	All	8,174	4,479	2,646	1,300	90,894	90,894	4,333,637.6	1,056,867	103.4	0.0	.	2,646	1,300
75-84	F	All	All	All	13,636	8,183	4,502	2,219	133,478	133,478	3,064,193.8	676,985	267.1	0.1	.	4,502	2,219
75-84	M	All	All	All	10,975	6,157	3,264	1,597	117,349	117,349	2,139,891.2	492,314	287.7	0.1	.	3,264	1,597
85+	F	All	All	All	15,296	9,574	3,606	1,775	181,328	181,328	1,319,430.3	337,545	725.6	0.1	.	3,606	1,775
85+	M	All	All	All	7,467	4,425	1,730	851	94,117	94,117	622,762.0	175,289	710.5	0.0	.	1,730	851
All	All	2000	All	All	1,387	1,034	808	389	24,352	24,352	3,265,482.3	7,070,831	31.7	0.0	34.5	808	389
All	All	2001	All	All	2,967	2,241	1,738	844	50,915	50,915	6,483,143.4	7,612,138	34.6	0.0	37.6	1,738	844
All	All	2002	All	All	3,040	2,288	1,662	805	53,216	53,216	6,546,876.2	7,743,773	34.9	0.0	37.0	1,662	805
All	All	2003	All	All	3,348	2,431	1,756	843	54,738	54,738	6,525,866.5	7,738,499	37.3	0.0	38.5	1,756	843
All	All	2004	All	All	3,484	2,442	1,834	896	55,151	55,151	6,820,683.9	8,226,065	35.8	0.0	36.1	1,834	896
All	All	2005	All	All	4,721	3,183	1,942	948	57,905	57,905	7,307,556.6	8,830,118	43.6	0.1	43.8	1,942	948
All	All	2006	All	All	4,839	3,079	1,762	862	56,139	56,139	7,528,293.6	8,844,496	40.9	0.1	41.2	1,762	862
All	All	2007	All	All	4,879	3,042	1,744	856	54,242	54,242	7,549,243.6	8,824,893	40.3	0.1	41.2	1,744	856
All	All	2008	All	All	5,154	3,006	1,652	816	54,737	54,737	7,649,117.1	8,987,418	39.3	0.1	39.7	1,652	816
All	All	2009	All	All	5,050	2,905	1,670	822	54,251	54,251	7,747,500.9	9,091,018	37.5	0.1	37.6	1,670	822
All	All	2010	All	All	5,560	3,027	1,700	833	54,485	54,485	7,918,332.3	9,256,124	38.2	0.1	38.1	1,700	833
All	All	2011	All	All	5,589	2,959	1,820	888	56,226	56,226	8,120,707.1	9,454,662	36.4	0.1	35.6	1,820	888
All	All	2012	All	All	6,174	3,198	1,766	871	58,704	58,704	8,263,418.9	9,527,543	38.7	0.1	36.6	1,766	871
All	All	2013	All	All	6,476	3,322	1,674	819	61,579	61,579	8,278,595.6	9,579,268	40.1	0.1	37.2	1,674	819
All	All	2014	All	All	7,491	3,724	1,814	894	62,002	62,002	8,473,785.2	9,889,824	43.9	0.1	40.7	1,814	894
All	All	2015	All	All	6,479	3,345	1,618	799	62,118	62,118	8,784,751.0	10,235,706	38.1	0.1	36.3	1,618	799
All	All	2016	All	All	2,393	1,293	102	51	39,919	39,919	7,602,857.6	8,929,174	17.0	0.0	15.4	102	51

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes
All	All	2017	All	All	1,244	648	12	6	22,010	22,010	3,979,201.6	8,349,076	16.3	0.0	14.0	12	6
<45	All	2000	All	All	47	34	48	24	1,750	1,750	2,073,595.0	4,606,003	1.6	0.0	.	48	24
<45	All	2001	All	All	136	94	148	68	3,569	3,569	4,103,577.0	5,038,056	2.3	0.0	.	148	68
<45	All	2002	All	All	139	101	130	64	3,796	3,796	4,094,231.7	5,074,975	2.5	0.0	.	130	64
<45	All	2003	All	All	212	131	136	64	3,560	3,560	4,016,995.2	5,002,994	3.3	0.0	.	136	64
<45	All	2004	All	All	204	130	136	65	3,624	3,624	4,135,389.1	5,217,502	3.1	0.0	.	136	65
<45	All	2005	All	All	197	130	138	63	3,596	3,596	4,388,056.8	5,561,833	3.0	0.0	.	138	63
<45	All	2006	All	All	167	112	92	46	3,308	3,308	4,526,700.5	5,580,565	2.5	0.0	.	92	46
<45	All	2007	All	All	154	107	88	44	3,319	3,319	4,528,797.5	5,565,264	2.4	0.0	.	88	44
<45	All	2008	All	All	192	112	88	42	3,041	3,041	4,565,132.0	5,648,968	2.5	0.0	.	88	42
<45	All	2009	All	All	152	93	88	43	3,037	3,037	4,607,923.1	5,668,124	2.0	0.0	.	88	43
<45	All	2010	All	All	178	117	96	46	2,944	2,944	4,704,546.2	5,747,234	2.5	0.0	.	96	46
<45	All	2011	All	All	202	116	100	50	2,870	2,870	4,804,235.3	5,839,797	2.4	0.0	.	100	50
<45	All	2012	All	All	183	99	94	47	3,014	3,014	4,862,280.7	5,848,313	2.0	0.0	.	94	47
<45	All	2013	All	All	156	89	64	32	2,906	2,906	4,823,751.9	5,825,977	1.8	0.0	.	64	32
<45	All	2014	All	All	198	114	80	39	2,997	2,997	4,944,989.1	5,982,480	2.3	0.0	.	80	39
<45	All	2015	All	All	190	109	72	36	3,188	3,188	5,171,892.8	6,236,216	2.1	0.0	.	72	36
<45	All	2016	All	All	91	56	4	2	1,151	1,151	4,174,907.5	5,154,482	1.3	0.0	.	4	2
<45	All	2017	All	All	44	9	0	0	545	545	2,152,293.1	4,691,375	0.4	0.0	.	0	0
45-54	All	2000	All	All	118	79	86	41	1,777	1,777	483,633.7	1,064,035	16.3	0.0	.	86	41
45-54	All	2001	All	All	207	139	180	85	3,834	3,834	961,689.9	1,171,847	14.5	0.0	.	180	85
45-54	All	2002	All	All	230	169	186	92	3,987	3,987	973,206.0	1,202,357	17.4	0.0	.	186	92
45-54	All	2003	All	All	258	176	194	93	4,211	4,211	980,351.5	1,210,341	18.0	0.0	.	194	93
45-54	All	2004	All	All	264	167	218	104	4,195	4,195	1,039,798.8	1,314,546	16.1	0.0	.	218	104
45-54	All	2005	All	All	317	194	234	109	4,457	4,457	1,127,941.0	1,432,126	17.2	0.0	.	234	109
45-54	All	2006	All	All	313	187	198	97	4,268	4,268	1,159,523.2	1,424,199	16.1	0.0	.	198	97
45-54	All	2007	All	All	347	207	202	100	4,022	4,022	1,169,380.6	1,428,804	17.7	0.1	.	202	100
45-54	All	2008	All	All	376	197	192	96	4,085	4,085	1,179,371.2	1,448,806	16.7	0.0	.	192	96
45-54	All	2009	All	All	316	170	186	89	4,082	4,082	1,182,473.8	1,459,501	14.4	0.0	.	186	89
45-54	All	2010	All	All	277	152	138	69	3,782	3,782	1,188,540.8	1,466,377	12.8	0.0	.	138	69
45-54	All	2011	All	All	352	188	200	96	3,923	3,923	1,194,682.6	1,466,473	15.7	0.0	.	200	96
45-54	All	2012	All	All	416	208	184	92	3,949	3,949	1,187,165.6	1,444,840	17.5	0.1	.	184	92
45-54	All	2013	All	All	294	157	130	63	3,694	3,694	1,168,902.9	1,432,936	13.4	0.0	.	130	63
45-54	All	2014	All	All	293	170	122	61	3,762	3,762	1,173,795.0	1,481,403	14.5	0.0	.	122	61
45-54	All	2015	All	All	272	146	108	52	3,682	3,682	1,198,540.1	1,507,312	12.2	0.0	.	108	52
45-54	All	2016	All	All	136	65	2	1	1,451	1,451	1,131,209.2	1,418,332	5.7	0.0	.	2	1
45-54	All	2017	All	All	44	21	0	0	691	691	581,455.6	1,271,358	3.6	0.0	.	0	0
55-64	All	2000	All	All	212	135	118	55	3,186	3,186	325,118.1	707,840	41.5	0.0	.	118	55

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes
55-64	All	2001	All	All	367	253	258	127	6,277	6,277	652,600.4	787,087	38.8	0.0	.	258	127
55-64	All	2002	All	All	410	278	282	133	6,727	6,727	694,788.8	839,368	40.0	0.0	.	282	133
55-64	All	2003	All	All	357	249	242	116	6,851	6,851	728,067.1	877,072	34.2	0.0	.	242	116
55-64	All	2004	All	All	439	302	284	140	7,045	7,045	796,195.3	983,173	37.9	0.0	.	284	140
55-64	All	2005	All	All	506	327	266	133	7,336	7,336	883,694.4	1,091,422	37.0	0.0	.	266	133
55-64	All	2006	All	All	610	360	286	136	7,231	7,231	923,240.3	1,103,706	39.0	0.0	.	286	136
55-64	All	2007	All	All	622	357	298	147	7,285	7,285	956,296.2	1,135,772	37.3	0.0	.	298	147
55-64	All	2008	All	All	643	360	260	129	7,267	7,267	988,210.8	1,177,212	36.4	0.0	.	260	129
55-64	All	2009	All	All	641	344	266	129	7,262	7,262	1,019,775.3	1,222,057	33.7	0.0	.	266	129
55-64	All	2010	All	All	633	351	292	143	7,127	7,127	1,056,953.1	1,263,951	33.2	0.0	.	292	143
55-64	All	2011	All	All	724	373	280	136	7,450	7,450	1,098,628.9	1,312,606	34.0	0.1	.	280	136
55-64	All	2012	All	All	784	394	278	134	7,716	7,716	1,113,653.9	1,328,956	35.4	0.1	.	278	134
55-64	All	2013	All	All	718	341	258	129	7,715	7,715	1,120,405.4	1,339,327	30.4	0.0	.	258	129
55-64	All	2014	All	All	835	428	294	144	7,843	7,843	1,141,228.3	1,405,010	37.5	0.1	.	294	144
55-64	All	2015	All	All	771	386	252	124	7,954	7,954	1,174,447.8	1,438,785	32.9	0.0	.	252	124
55-64	All	2016	All	All	277	132	20	10	3,897	3,897	1,132,078.5	1,386,830	11.7	0.0	.	20	10
55-64	All	2017	All	All	143	72	2	1	2,065	2,065	595,954.0	1,277,855	12.1	0.0	.	2	1
65-74	All	2000	All	All	325	239	202	96	4,852	4,852	216,573.8	468,090	110.4	0.0	.	202	96
65-74	All	2001	All	All	666	486	384	186	10,259	10,259	429,720.2	502,987	113.1	0.0	.	384	186
65-74	All	2002	All	All	639	483	340	163	10,325	10,325	436,159.6	512,859	110.7	0.0	.	340	163
65-74	All	2003	All	All	709	507	390	185	10,502	10,502	440,649.3	519,381	115.1	0.0	.	390	185
65-74	All	2004	All	All	635	441	330	162	10,377	10,377	463,511.5	555,529	95.1	0.0	.	330	162
65-74	All	2005	All	All	909	596	416	202	10,722	10,722	491,175.9	588,338	121.3	0.1	.	416	202
65-74	All	2006	All	All	884	551	304	148	10,004	10,004	494,011.3	583,378	111.5	0.1	.	304	148
65-74	All	2007	All	All	865	527	326	159	9,501	9,501	483,614.2	568,431	109.0	0.1	.	326	159
65-74	All	2008	All	All	854	497	302	150	9,760	9,760	499,153.6	582,044	99.6	0.1	.	302	150
65-74	All	2009	All	All	943	531	328	163	9,381	9,381	515,122.2	605,785	103.1	0.1	.	328	163
65-74	All	2010	All	All	1,069	542	338	164	9,337	9,337	537,059.1	630,043	100.9	0.1	.	338	164
65-74	All	2011	All	All	1,005	489	332	161	9,777	9,777	576,117.9	685,809	84.9	0.1	.	332	161
65-74	All	2012	All	All	1,172	600	354	174	10,653	10,653	635,841.5	750,509	94.4	0.1	.	354	174
65-74	All	2013	All	All	1,264	615	344	167	11,288	11,288	687,697.0	808,601	89.4	0.1	.	344	167
65-74	All	2014	All	All	1,515	704	350	172	11,773	11,773	730,735.4	852,779	96.3	0.1	.	350	172
65-74	All	2015	All	All	1,286	617	312	156	11,728	11,728	758,654.9	891,153	81.3	0.1	.	312	156
65-74	All	2016	All	All	525	275	20	10	7,677	7,677	730,208.9	846,716	37.7	0.0	.	20	10
65-74	All	2017	All	All	272	141	2	1	4,200	4,200	408,652.9	821,161	34.5	0.0	.	2	1
75-84	All	2000	All	All	415	322	242	117	6,782	6,782	127,497.8	275,461	252.6	0.0	.	242	117
75-84	All	2001	All	All	959	745	516	253	14,229	14,229	256,665.1	300,582	290.3	0.1	.	516	253
75-84	All	2002	All	All	961	738	470	229	14,903	14,903	266,035.4	312,660	277.4	0.0	.	470	229

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes	Stroke-Related Death Codes
75-84	All	2003	All	All	1,093	799	534	260	15,498	15,498	273,442.1	320,077	292.2	0.1	.	534	260
75-84	All	2004	All	All	1,118	791	546	270	15,558	15,558	291,988.8	349,358	270.9	0.1	.	546	270
75-84	All	2005	All	All	1,548	1,034	564	281	16,262	16,262	313,036.7	368,763	330.3	0.1	.	564	281
75-84	All	2006	All	All	1,540	980	544	267	15,905	15,905	316,291.7	368,889	309.8	0.1	.	544	267
75-84	All	2007	All	All	1,511	939	490	240	14,747	14,747	301,238.9	349,161	311.7	0.1	.	490	240
75-84	All	2008	All	All	1,578	924	480	236	14,762	14,762	302,581.8	347,822	305.4	0.1	.	480	236
75-84	All	2009	All	All	1,493	868	442	218	14,351	14,351	302,819.8	350,862	286.6	0.1	.	442	218
75-84	All	2010	All	All	1,668	882	450	221	14,431	14,431	306,871.0	355,629	287.4	0.1	.	450	221
75-84	All	2011	All	All	1,650	871	514	251	14,557	14,557	316,725.5	367,894	275.0	0.1	.	514	251
75-84	All	2012	All	All	1,747	866	472	233	14,987	14,987	327,708.0	379,145	264.3	0.1	.	472	233
75-84	All	2013	All	All	1,988	988	466	228	15,748	15,748	336,684.8	390,869	293.4	0.1	.	466	228
75-84	All	2014	All	All	2,396	1,098	538	266	15,651	15,651	340,735.2	394,433	322.2	0.1	.	538	266
75-84	All	2015	All	All	1,855	924	464	229	15,571	15,571	340,745.2	401,715	271.2	0.1	.	464	229
75-84	All	2016	All	All	711	371	32	16	10,885	10,885	309,935.8	357,738	119.7	0.0	.	32	16
75-84	All	2017	All	All	380	200	2	1	6,000	6,000	173,081.4	348,067	115.6	0.0	.	2	1
85+	All	2000	All	All	270	225	112	56	6,005	6,005	39,010.4	86,336	576.8	0.0	.	112	56
85+	All	2001	All	All	632	524	252	125	12,747	12,747	78,791.1	97,085	665.0	0.0	.	252	125
85+	All	2002	All	All	661	519	254	124	13,478	13,478	82,342.5	102,000	630.3	0.0	.	254	124
85+	All	2003	All	All	719	569	260	125	14,116	14,116	86,260.2	106,249	659.6	0.0	.	260	125
85+	All	2004	All	All	824	611	320	155	14,352	14,352	93,708.6	118,478	652.0	0.0	.	320	155
85+	All	2005	All	All	1,244	902	324	160	15,532	15,532	103,482.7	127,240	871.6	0.1	.	324	160
85+	All	2006	All	All	1,325	889	338	168	15,423	15,423	108,298.5	132,439	820.9	0.1	.	338	168
85+	All	2007	All	All	1,380	905	340	166	15,368	15,368	109,694.6	132,358	825.0	0.1	.	340	166
85+	All	2008	All	All	1,511	916	330	163	15,822	15,822	114,460.6	137,187	800.3	0.1	.	330	163
85+	All	2009	All	All	1,505	899	360	180	16,138	16,138	119,188.3	142,586	754.3	0.1	.	360	180
85+	All	2010	All	All	1,735	983	386	190	16,864	16,864	124,200.8	148,272	791.5	0.1	.	386	190
85+	All	2011	All	All	1,656	922	394	194	17,649	17,649	130,183.2	155,698	708.2	0.1	.	394	194
85+	All	2012	All	All	1,872	1,031	384	191	18,385	18,385	136,653.1	162,343	754.5	0.1	.	384	191
85+	All	2013	All	All	2,056	1,132	412	200	20,228	20,228	141,050.5	168,277	802.5	0.1	.	412	200
85+	All	2014	All	All	2,254	1,210	430	212	19,976	19,976	142,225.4	168,830	850.8	0.1	.	430	212
85+	All	2015	All	All	2,105	1,163	410	202	19,995	19,995	140,405.3	170,222	828.3	0.1	.	410	202
85+	All	2016	All	All	653	394	24	12	14,858	14,858	124,478.2	146,162	316.5	0.0	.	24	12
85+	All	2017	All	All	361	205	6	3	8,509	8,509	67,758.5	139,086	302.5	0.0	.	6	3
All	F	2000	All	All	747	574	442	212	12,841	12,841	1,733,630.5	3,745,400	33.1	0.0	.	442	212
All	M	2000	All	All	640	460	366	177	11,511	11,511	1,531,851.8	3,325,431	30.0	0.0	.	366	177
All	F	2001	All	All	1,685	1,285	1,008	489	27,103	27,103	3,442,534.7	4,021,150	37.3	0.0	.	1,008	489
All	M	2001	All	All	1,282	956	730	355	23,812	23,812	3,040,608.7	3,590,988	31.4	0.0	.	730	355
All	F	2002	All	All	1,708	1,304	948	459	28,230	28,230	3,476,371.4	4,090,749	37.5	0.0	.	948	459

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category		Members with Stroke-Related Death and a Corresponding Cause of Death (COD) Record																
(Years)	Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes	
All	M	2002	All	All	1,332	984	714	346	24,986	24,986	3,070,504.7	3,653,024	32.0	0.0	.	714	346	
All	F	2003	All	All	1,932	1,432	1,018	487	29,225	29,225	3,467,145.7	4,093,147	41.3	0.0	.	1,018	487	
All	M	2003	All	All	1,416	999	738	356	25,513	25,513	3,058,720.8	3,645,352	32.7	0.0	.	738	356	
All	F	2004	All	All	1,941	1,402	1,044	507	29,531	29,531	3,626,632.2	4,358,320	38.7	0.0	.	1,044	507	
All	M	2004	All	All	1,543	1,040	790	389	25,620	25,620	3,194,051.6	3,867,745	32.6	0.0	.	790	389	
All	F	2005	All	All	2,782	1,896	1,112	541	30,932	30,932	3,885,176.6	4,676,687	48.8	0.1	.	1,112	541	
All	M	2005	All	All	1,939	1,287	830	407	26,973	26,973	3,422,380.0	4,153,431	37.6	0.0	.	830	407	
All	F	2006	All	All	2,772	1,790	1,008	490	30,048	30,048	3,995,822.7	4,680,320	44.8	0.1	.	1,008	490	
All	M	2006	All	All	2,067	1,289	754	372	26,091	26,091	3,532,470.9	4,164,176	36.5	0.0	.	754	372	
All	F	2007	All	All	2,714	1,743	958	472	29,070	29,070	4,001,162.6	4,664,665	43.6	0.1	.	958	472	
All	M	2007	All	All	2,165	1,299	786	384	25,172	25,172	3,548,081.0	4,160,228	36.6	0.1	.	786	384	
All	F	2008	All	All	2,902	1,741	914	452	29,411	29,411	4,052,641.0	4,748,304	43.0	0.1	.	914	452	
All	M	2008	All	All	2,252	1,265	738	364	25,326	25,326	3,596,476.0	4,239,114	35.2	0.0	.	738	364	
All	F	2009	All	All	2,754	1,616	878	430	29,304	29,304	4,117,085.7	4,811,557	39.3	0.1	.	878	430	
All	M	2009	All	All	2,296	1,289	792	392	24,947	24,947	3,630,415.1	4,279,461	35.5	0.1	.	792	392	
All	F	2010	All	All	3,066	1,732	958	470	29,352	29,352	4,218,318.0	4,910,750	41.1	0.1	.	958	470	
All	M	2010	All	All	2,494	1,295	742	363	25,133	25,133	3,700,014.3	4,345,374	35.0	0.1	.	742	363	
All	F	2011	All	All	3,061	1,704	1,034	506	30,306	30,306	4,323,540.1	5,015,224	39.4	0.1	.	1,034	506	
All	M	2011	All	All	2,528	1,255	786	382	25,920	25,920	3,797,166.9	4,439,438	33.1	0.0	.	786	382	
All	F	2012	All	All	3,459	1,841	1,010	494	31,507	31,507	4,394,360.3	5,051,941	41.9	0.1	.	1,010	494	
All	M	2012	All	All	2,715	1,357	756	377	27,197	27,197	3,869,058.6	4,475,602	35.1	0.0	.	756	377	
All	F	2013	All	All	3,490	1,862	986	481	32,905	32,905	4,395,345.2	5,074,204	42.4	0.1	.	986	481	
All	M	2013	All	All	2,986	1,460	688	338	28,674	28,674	3,883,250.5	4,505,064	37.6	0.1	.	688	338	
All	F	2014	All	All	4,092	2,094	998	491	33,361	33,361	4,496,695.3	5,222,592	46.6	0.1	.	998	491	
All	M	2014	All	All	3,399	1,630	816	403	28,641	28,641	3,977,089.9	4,667,232	41.0	0.1	.	816	403	
All	F	2015	All	All	3,571	1,887	898	445	33,484	33,484	4,659,689.2	5,397,787	40.5	0.1	.	898	445	
All	M	2015	All	All	2,908	1,458	720	354	28,634	28,634	4,125,061.8	4,837,919	35.3	0.1	.	720	354	
All	F	2016	All	All	1,229	688	52	26	20,473	20,473	3,946,765.6	4,611,176	17.4	0.0	.	52	26	
All	M	2016	All	All	1,164	605	50	25	19,446	19,446	3,656,092.1	4,317,998	16.5	0.0	.	50	25	
All	F	2017	All	All	607	322	6	3	11,233	11,233	2,071,128.6	4,325,660	15.5	0.0	.	6	3	
All	M	2017	All	All	637	326	6	3	10,777	10,777	1,908,073.0	4,023,416	17.1	0.0	.	6	3	
<45	F	2000	All	All	24	17	22	11	727	727	1,080,761.2	2,396,652	1.6	0.0	.	22	11	
<45	M	2000	All	All	23	17	26	13	1,023	1,023	992,833.9	2,209,351	1.7	0.0	.	26	13	
<45	F	2001	All	All	76	50	84	38	1,466	1,466	2,137,799.7	2,614,368	2.3	0.0	.	84	38	
<45	M	2001	All	All	60	44	64	30	2,103	2,103	1,965,777.2	2,423,688	2.2	0.0	.	64	30	
<45	F	2002	All	All	70	47	68	34	1,521	1,521	2,130,649.6	2,632,375	2.2	0.0	.	68	34	
<45	M	2002	All	All	69	54	62	30	2,275	2,275	1,963,582.1	2,442,600	2.8	0.0	.	62	30	
<45	F	2003	All	All	124	74	84	40	1,542	1,542	2,091,318.3	2,599,056	3.5	0.0	.	84	40	

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes			
<45	M	2003	All	All	88	57	52	24	2,018	2,018	1,925,676.8	2,403,938	3.0	0.0	.	52	24
<45	F	2004	All	All	111	71	90	42	1,563	1,563	2,155,321.2	2,715,255	3.3	0.0	.	90	42
<45	M	2004	All	All	93	59	46	23	2,061	2,061	1,980,067.9	2,502,247	3.0	0.0	.	46	23
<45	F	2005	All	All	121	74	86	38	1,491	1,491	2,287,699.5	2,893,988	3.2	0.0	.	86	38
<45	M	2005	All	All	76	56	52	25	2,105	2,105	2,100,357.3	2,667,845	2.7	0.0	.	52	25
<45	F	2006	All	All	79	48	52	26	1,426	1,426	2,358,068.9	2,903,840	2.0	0.0	.	52	26
<45	M	2006	All	All	88	64	40	20	1,882	1,882	2,168,631.5	2,676,725	3.0	0.0	.	40	20
<45	F	2007	All	All	65	48	36	18	1,406	1,406	2,355,718.1	2,894,205	2.0	0.0	.	36	18
<45	M	2007	All	All	89	59	52	26	1,913	1,913	2,173,079.4	2,671,059	2.7	0.0	.	52	26
<45	F	2008	All	All	92	59	38	17	1,282	1,282	2,374,122.5	2,937,544	2.5	0.0	.	38	17
<45	M	2008	All	All	100	53	50	25	1,759	1,759	2,191,009.5	2,711,424	2.4	0.0	.	50	25
<45	F	2009	All	All	73	42	40	19	1,357	1,357	2,405,712.3	2,954,419	1.7	0.0	.	40	19
<45	M	2009	All	All	79	51	48	24	1,680	1,680	2,202,210.8	2,713,705	2.3	0.0	.	48	24
<45	F	2010	All	All	83	53	52	25	1,307	1,307	2,464,819.5	3,005,342	2.2	0.0	.	52	25
<45	M	2010	All	All	95	64	44	21	1,637	1,637	2,239,726.7	2,741,892	2.9	0.0	.	44	21
<45	F	2011	All	All	98	54	46	23	1,264	1,264	2,514,107.1	3,050,258	2.1	0.0	.	46	23
<45	M	2011	All	All	104	62	54	27	1,606	1,606	2,290,128.1	2,789,539	2.7	0.0	.	54	27
<45	F	2012	All	All	100	54	48	24	1,340	1,340	2,539,938.2	3,052,212	2.1	0.0	.	48	24
<45	M	2012	All	All	83	45	46	23	1,674	1,674	2,322,342.5	2,796,101	1.9	0.0	.	46	23
<45	F	2013	All	All	83	46	36	18	1,245	1,245	2,514,879.4	3,037,621	1.8	0.0	.	36	18
<45	M	2013	All	All	73	43	28	14	1,661	1,661	2,308,872.5	2,788,356	1.9	0.0	.	28	14
<45	F	2014	All	All	74	48	46	22	1,299	1,299	2,579,600.7	3,108,031	1.9	0.0	.	46	22
<45	M	2014	All	All	124	66	34	17	1,698	1,698	2,365,388.4	2,874,449	2.8	0.0	.	34	17
<45	F	2015	All	All	91	53	44	22	1,400	1,400	2,700,928.9	3,239,095	2.0	0.0	.	44	22
<45	M	2015	All	All	99	56	28	14	1,788	1,788	2,470,963.9	2,997,121	2.3	0.0	.	28	14
<45	F	2016	All	All	30	19	0	0	442	442	2,116,349.3	2,602,784	0.9	0.0	.	0	0
<45	M	2016	All	All	61	37	4	2	709	709	2,058,558.2	2,551,698	1.8	0.1	.	4	2
<45	F	2017	All	All	4	3	0	0	221	221	1,092,466.8	2,375,185	0.3	0.0	.	0	0
<45	M	2017	All	All	40	6	0	0	324	324	1,059,826.3	2,316,190	0.6	0.0	.	0	0
45-54	F	2000	All	All	63	41	40	20	750	750	255,394.0	561,436	16.1	0.1	.	40	20
45-54	M	2000	All	All	55	38	46	21	1,027	1,027	228,239.7	502,599	16.6	0.0	.	46	21
45-54	F	2001	All	All	108	73	94	44	1,639	1,639	507,735.0	616,631	14.4	0.0	.	94	44
45-54	M	2001	All	All	99	66	86	41	2,195	2,195	453,954.9	555,216	14.5	0.0	.	86	41
45-54	F	2002	All	All	124	87	88	44	1,688	1,688	513,978.7	632,245	16.9	0.1	.	88	44
45-54	M	2002	All	All	106	82	98	48	2,299	2,299	459,227.3	570,112	17.9	0.0	.	98	48
45-54	F	2003	All	All	123	87	102	48	1,735	1,735	517,359.2	636,311	16.8	0.1	.	102	48
45-54	M	2003	All	All	135	89	92	45	2,476	2,476	462,992.2	574,030	19.2	0.0	.	92	45
45-54	F	2004	All	All	122	80	116	54	1,848	1,848	549,661.4	693,435	14.6	0.0	.	116	54

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category		Members with Stroke-Related Death and a Corresponding Cause of Death (COD) Record																
Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes		
45-54	M	2004	All	All	142	87	102	50	2,347	2,347	490,137.5	621,111	17.8	0.0	.	102	50	
45-54	F	2005	All	All	160	98	114	54	1,938	1,938	597,781.7	756,978	16.4	0.1	.	114	54	
45-54	M	2005	All	All	157	96	120	55	2,519	2,519	530,159.3	675,148	18.1	0.0	.	120	55	
45-54	F	2006	All	All	180	94	116	57	1,867	1,867	613,986.6	751,743	15.3	0.1	.	116	57	
45-54	M	2006	All	All	133	93	82	40	2,401	2,401	545,536.6	672,456	17.0	0.0	.	82	40	
45-54	F	2007	All	All	159	96	94	47	1,695	1,695	618,852.1	753,503	15.5	0.1	.	94	47	
45-54	M	2007	All	All	188	111	108	53	2,327	2,327	550,528.4	675,301	20.2	0.0	.	108	53	
45-54	F	2008	All	All	154	94	100	50	1,784	1,784	623,417.7	763,509	15.1	0.1	.	100	50	
45-54	M	2008	All	All	222	103	92	46	2,301	2,301	555,953.5	685,297	18.5	0.0	.	92	46	
45-54	F	2009	All	All	167	84	112	53	1,811	1,811	626,816.9	770,086	13.4	0.0	.	112	53	
45-54	M	2009	All	All	149	86	74	36	2,271	2,271	555,656.9	689,415	15.5	0.0	.	74	36	
45-54	F	2010	All	All	170	85	74	37	1,669	1,669	631,377.8	775,255	13.5	0.1	.	74	37	
45-54	M	2010	All	All	107	67	64	32	2,113	2,113	557,163.0	691,122	12.0	0.0	.	64	32	
45-54	F	2011	All	All	156	92	96	47	1,770	1,770	634,619.5	775,898	14.5	0.1	.	96	47	
45-54	M	2011	All	All	196	96	104	49	2,153	2,153	560,063.0	690,575	17.1	0.0	.	104	49	
45-54	F	2012	All	All	205	101	86	43	1,746	1,746	629,675.6	763,771	16.0	0.1	.	86	43	
45-54	M	2012	All	All	211	107	98	49	2,203	2,203	557,490.0	681,069	19.2	0.0	.	98	49	
45-54	F	2013	All	All	152	78	68	32	1,684	1,684	618,144.8	755,276	12.6	0.0	.	68	32	
45-54	M	2013	All	All	142	79	62	31	2,010	2,010	550,758.2	677,660	14.3	0.0	.	62	31	
45-54	F	2014	All	All	112	70	56	28	1,717	1,717	619,250.4	778,289	11.3	0.0	.	56	28	
45-54	M	2014	All	All	181	100	66	33	2,045	2,045	554,544.6	703,114	18.0	0.0	.	66	33	
45-54	F	2015	All	All	150	76	54	26	1,710	1,710	631,364.9	790,242	12.0	0.0	.	54	26	
45-54	M	2015	All	All	122	70	54	26	1,972	1,972	567,175.2	717,070	12.3	0.0	.	54	26	
45-54	F	2016	All	All	72	35	0	0	617	617	587,967.0	734,596	6.0	0.1	.	0	0	
45-54	M	2016	All	All	64	30	2	1	834	834	543,242.2	683,736	5.5	0.0	.	2	1	
45-54	F	2017	All	All	20	9	0	0	297	297	303,182.9	659,718	3.0	0.0	.	0	0	
45-54	M	2017	All	All	24	12	0	0	394	394	278,272.7	611,640	4.3	0.0	.	0	0	
55-64	F	2000	All	All	83	53	62	27	1,347	1,347	172,724.7	375,655	30.7	0.0	.	62	27	
55-64	M	2000	All	All	129	82	56	28	1,839	1,839	152,393.4	332,185	53.8	0.0	.	56	28	
55-64	F	2001	All	All	181	123	144	70	2,752	2,752	347,548.2	417,640	35.4	0.0	.	144	70	
55-64	M	2001	All	All	186	130	114	57	3,525	3,525	305,052.2	369,447	42.6	0.0	.	114	57	
55-64	F	2002	All	All	177	121	144	68	2,884	2,884	370,221.7	445,468	32.7	0.0	.	144	68	
55-64	M	2002	All	All	233	157	138	65	3,843	3,843	324,567.1	393,900	48.4	0.0	.	138	65	
55-64	F	2003	All	All	184	125	142	67	3,040	3,040	388,213.0	465,729	32.2	0.0	.	142	67	
55-64	M	2003	All	All	173	124	100	49	3,811	3,811	339,854.1	411,343	36.5	0.0	.	100	49	
55-64	F	2004	All	All	190	139	122	60	3,060	3,060	423,803.1	521,473	32.8	0.0	.	122	60	
55-64	M	2004	All	All	249	163	162	80	3,985	3,985	372,392.2	461,700	43.8	0.0	.	162	80	
55-64	F	2005	All	All	254	164	130	65	3,215	3,215	469,383.5	578,893	34.9	0.1	.	130	65	

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category			Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record		Members with Record of Death and Corresponding COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Eligible Member-Years		Eligible Members		Rate of Stroke-Related Death per 100,000 Member-Years		Rate of Stroke-Related Death among all		Age Standardized Death Rate		Stroke-Related COD Codes		Members with Stroke-Related COD Codes	
Years	Sex	Year			Death Codes	Death Codes	Corresponding (COD) Record	Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes											
55-64	M	2005	All	All	252	163	136	68	4,121	4,121	414,310.9	512,529	39.3	0.0	.	136	68											
55-64	F	2006	All	All	278	164	130	61	3,241	3,241	488,581.2	583,363	33.6	0.1	.	130	61											
55-64	M	2006	All	All	332	196	156	75	3,990	3,990	434,659.1	520,343	45.1	0.0	.	156	75											
55-64	F	2007	All	All	299	171	146	72	3,198	3,198	506,395.4	599,950	33.8	0.1	.	146	72											
55-64	M	2007	All	All	323	186	152	75	4,087	4,087	449,900.8	535,822	41.3	0.0	.	152	75											
55-64	F	2008	All	All	339	191	144	71	3,206	3,206	523,700.6	621,959	36.5	0.1	.	144	71											
55-64	M	2008	All	All	304	169	116	58	4,061	4,061	464,510.2	555,253	36.4	0.0	.	116	58											
55-64	F	2009	All	All	262	155	114	55	3,183	3,183	543,085.3	647,933	28.5	0.0	.	114	55											
55-64	M	2009	All	All	379	189	152	74	4,079	4,079	476,689.9	574,124	39.6	0.0	.	152	74											
55-64	F	2010	All	All	266	163	152	73	3,077	3,077	565,237.1	672,592	28.8	0.1	.	152	73											
55-64	M	2010	All	All	367	188	140	70	4,050	4,050	491,716.0	591,359	38.2	0.0	.	140	70											
55-64	F	2011	All	All	345	188	160	76	3,341	3,341	588,609.2	700,600	31.9	0.1	.	160	76											
55-64	M	2011	All	All	379	185	120	60	4,109	4,109	510,019.7	612,006	36.3	0.0	.	120	60											
55-64	F	2012	All	All	359	176	148	69	3,416	3,416	596,928.9	709,994	29.5	0.1	.	148	69											
55-64	M	2012	All	All	425	218	130	65	4,300	4,300	516,725.0	618,962	42.2	0.1	.	130	65											
55-64	F	2013	All	All	328	156	138	69	3,457	3,457	599,356.4	714,068	26.0	0.0	.	138	69											
55-64	M	2013	All	All	390	185	120	60	4,258	4,258	521,048.9	625,259	35.5	0.0	.	120	60											
55-64	F	2014	All	All	380	202	146	73	3,534	3,534	609,383.5	747,915	33.1	0.1	.	146	73											
55-64	M	2014	All	All	455	226	148	71	4,309	4,309	531,844.8	657,095	42.5	0.1	.	148	71											
55-64	F	2015	All	All	326	177	122	60	3,447	3,447	625,932.1	764,065	28.3	0.1	.	122	60											
55-64	M	2015	All	All	445	209	130	64	4,507	4,507	548,515.7	674,720	38.1	0.0	.	130	64											
55-64	F	2016	All	All	106	53	10	5	1,718	1,718	600,903.4	734,067	8.8	0.0	.	10	5											
55-64	M	2016	All	All	171	79	10	5	2,179	2,179	531,175.0	652,763	14.9	0.0	.	10	5											
55-64	F	2017	All	All	65	33	0	0	908	908	317,606.2	677,842	10.4	0.0	.	0	0											
55-64	M	2017	All	All	78	39	2	1	1,157	1,157	278,347.8	600,013	14.0	0.0	.	2	1											
65-74	F	2000	All	All	161	121	104	49	2,245	2,245	119,437.5	257,853	101.3	0.1	.	104	49											
65-74	M	2000	All	All	164	118	98	47	2,607	2,607	97,136.4	210,237	121.5	0.0	.	98	47											
65-74	F	2001	All	All	363	259	220	105	4,840	4,840	237,284.4	276,911	109.2	0.1	.	220	105											
65-74	M	2001	All	All	303	227	164	81	5,419	5,419	192,435.8	226,076	118.0	0.0	.	164	81											
65-74	F	2002	All	All	317	234	160	76	4,838	4,838	241,336.9	282,340	97.0	0.0	.	160	76											
65-74	M	2002	All	All	322	249	180	87	5,487	5,487	194,822.7	230,519	127.8	0.0	.	180	87											
65-74	F	2003	All	All	351	259	210	98	4,964	4,964	243,355.4	285,560	106.4	0.1	.	210	98											
65-74	M	2003	All	All	358	248	180	87	5,538	5,538	197,293.9	233,821	125.7	0.0	.	180	87											
65-74	F	2004	All	All	314	223	174	85	4,945	4,945	255,556.2	304,936	87.3	0.0	.	174	85											
65-74	M	2004	All	All	321	218	156	77	5,432	5,432	207,955.3	250,593	104.8	0.0	.	156	77											
65-74	F	2005	All	All	448	302	210	101	5,045	5,045	269,889.5	321,815	111.9	0.1	.	210	101											
65-74	M	2005	All	All	461	294	206	101	5,677	5,677	221,286.4	266,523	132.9	0.1	.	206	101											
65-74	F	2006	All	All	420	279	158	75	4,707	4,707	270,691.8	318,259	103.1	0.1	.	158	75											

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category			Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record		Members with Record of Death and Corresponding COD Record		Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
Years	Sex	Year			Death Codes	Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table	Member-Years	Members	Member-Years	Members	Member-Years	Members	Death Rate	Standardized Death Rate	Stroke-Related COD Codes
65-74	M	2006	All	All	464	272	146	73	5,297	5,297	223,319.4	265,119	121.8	0.1	.		146	73	
65-74	F	2007	All	All	438	276	168	83	4,515	4,515	264,387.5	309,472	104.4	0.1	.		168	83	
65-74	M	2007	All	All	427	251	158	76	4,986	4,986	219,226.7	258,959	114.5	0.1	.		158	76	
65-74	F	2008	All	All	379	240	126	63	4,609	4,609	272,685.5	316,469	88.0	0.1	.		126	63	
65-74	M	2008	All	All	475	257	176	87	5,151	5,151	226,468.1	265,575	113.5	0.0	.		176	87	
65-74	F	2009	All	All	438	256	150	74	4,541	4,541	280,834.9	328,997	91.2	0.1	.		150	74	
65-74	M	2009	All	All	505	275	178	89	4,840	4,840	234,287.3	276,788	117.4	0.1	.		178	89	
65-74	F	2010	All	All	513	268	184	89	4,449	4,449	292,102.2	341,460	91.7	0.1	.		184	89	
65-74	M	2010	All	All	556	274	154	75	4,888	4,888	244,956.9	288,583	111.9	0.1	.		154	75	
65-74	F	2011	All	All	475	233	174	84	4,560	4,560	312,986.6	371,236	74.4	0.1	.		174	84	
65-74	M	2011	All	All	530	256	158	77	5,217	5,217	263,131.3	314,573	97.3	0.0	.		158	77	
65-74	F	2012	All	All	532	300	190	93	5,099	5,099	345,312.2	406,514	86.9	0.1	.		190	93	
65-74	M	2012	All	All	640	300	164	81	5,554	5,554	290,529.3	343,995	103.3	0.1	.		164	81	
65-74	F	2013	All	All	543	289	174	83	5,258	5,258	373,758.5	438,193	77.3	0.1	.		174	83	
65-74	M	2013	All	All	721	326	170	84	6,030	6,030	313,938.5	370,408	103.8	0.1	.		170	84	
65-74	F	2014	All	All	696	333	160	78	5,575	5,575	397,355.3	462,563	83.8	0.1	.		160	78	
65-74	M	2014	All	All	819	371	190	94	6,198	6,198	333,380.1	390,216	111.3	0.1	.		190	94	
65-74	F	2015	All	All	610	294	152	76	5,630	5,630	413,028.1	483,243	71.2	0.1	.		152	76	
65-74	M	2015	All	All	676	323	160	80	6,098	6,098	345,626.8	407,910	93.5	0.1	.		160	80	
65-74	F	2016	All	All	244	133	12	6	3,540	3,540	391,317.0	452,219	34.0	0.0	.		12	6	
65-74	M	2016	All	All	281	142	8	4	4,137	4,137	338,891.8	394,497	41.9	0.0	.		8	4	
65-74	F	2017	All	All	121	63	2	1	1,862	1,862	219,702.2	439,966	28.7	0.0	.		2	1	
65-74	M	2017	All	All	151	78	0	0	2,338	2,338	188,950.7	381,195	41.3	0.0	.		0	0	
75-84	F	2000	All	All	235	183	138	67	3,634	3,634	77,579.9	167,411	235.9	0.1	.		138	67	
75-84	M	2000	All	All	180	139	104	50	3,148	3,148	49,918.0	108,050	278.5	0.0	.		104	50	
75-84	F	2001	All	All	546	431	272	135	7,694	7,694	156,294.1	182,441	275.8	0.1	.		272	135	
75-84	M	2001	All	All	413	314	244	118	6,535	6,535	100,371.0	118,141	312.8	0.0	.		244	118	
75-84	F	2002	All	All	543	438	290	140	8,115	8,115	161,884.8	189,741	270.6	0.1	.		290	140	
75-84	M	2002	All	All	418	300	180	89	6,788	6,788	104,150.6	122,919	288.0	0.0	.		180	89	
75-84	F	2003	All	All	644	481	306	150	8,341	8,341	166,153.3	193,858	289.5	0.1	.		306	150	
75-84	M	2003	All	All	449	318	228	110	7,157	7,157	107,288.8	126,219	296.4	0.0	.		228	110	
75-84	F	2004	All	All	656	478	344	170	8,440	8,440	176,729.6	210,446	270.5	0.1	.		344	170	
75-84	M	2004	All	All	462	313	202	100	7,118	7,118	115,259.2	138,912	271.6	0.0	.		202	100	
75-84	F	2005	All	All	930	620	346	172	8,744	8,744	188,428.5	220,979	329.0	0.1	.		346	172	
75-84	M	2005	All	All	618	414	218	109	7,518	7,518	124,608.2	147,784	332.2	0.1	.		218	109	
75-84	F	2006	All	All	894	577	318	155	8,560	8,560	189,562.8	220,244	304.4	0.1	.		318	155	
75-84	M	2006	All	All	646	403	226	112	7,345	7,345	126,728.9	148,645	318.0	0.1	.		226	112	
75-84	F	2007	All	All	851	538	294	145	7,956	7,956	180,178.9	208,173	298.6	0.1	.		294	145	

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Death Codes	Death Codes			Death in	Death Table							
75-84	M	2007	All	All	660	401	196	95	6,791	6,791	121,060.0	140,988	331.2	0.1	.	196	95
75-84	F	2008	All	All	861	519	260	129	7,943	7,943	180,099.2	206,458	288.2	0.1	.	260	129
75-84	M	2008	All	All	717	405	220	107	6,819	6,819	122,482.6	141,364	330.7	0.1	.	220	107
75-84	F	2009	All	All	836	488	228	112	7,702	7,702	179,114.6	207,212	272.5	0.1	.	228	112
75-84	M	2009	All	All	657	380	214	106	6,649	6,649	123,705.2	143,650	307.2	0.1	.	214	106
75-84	F	2010	All	All	886	502	248	124	7,704	7,704	180,268.3	208,540	278.5	0.1	.	248	124
75-84	M	2010	All	All	782	380	202	97	6,727	6,727	126,602.7	147,089	300.2	0.1	.	202	97
75-84	F	2011	All	All	872	499	306	152	7,799	7,799	184,951.2	214,480	269.8	0.1	.	306	152
75-84	M	2011	All	All	778	372	208	99	6,758	6,758	131,774.3	153,414	282.3	0.1	.	208	99
75-84	F	2012	All	All	978	496	272	133	7,991	7,991	190,305.5	219,855	260.6	0.1	.	272	133
75-84	M	2012	All	All	769	370	200	100	6,996	6,996	137,402.5	159,290	269.3	0.1	.	200	100
75-84	F	2013	All	All	1,067	546	304	150	8,207	8,207	194,490.2	225,326	280.7	0.1	.	304	150
75-84	M	2013	All	All	921	442	162	78	7,541	7,541	142,194.6	165,543	310.8	0.1	.	162	78
75-84	F	2014	All	All	1,319	617	328	161	8,201	8,201	195,966.9	226,464	314.8	0.1	.	328	161
75-84	M	2014	All	All	1,077	481	210	105	7,450	7,450	144,768.3	167,969	332.3	0.1	.	210	105
75-84	F	2015	All	All	964	481	228	114	8,277	8,277	195,356.5	229,547	246.2	0.1	.	228	114
75-84	M	2015	All	All	891	443	236	115	7,294	7,294	145,388.7	172,168	304.7	0.1	.	236	115
75-84	F	2016	All	All	371	196	20	10	5,239	5,239	171,372.4	197,280	114.4	0.0	.	20	10
75-84	M	2016	All	All	340	175	12	6	5,646	5,646	138,563.3	160,458	126.3	0.0	.	12	6
75-84	F	2017	All	All	183	93	0	0	2,931	2,931	95,456.9	191,898	97.4	0.0	.	0	0
75-84	M	2017	All	All	197	107	2	1	3,069	3,069	77,624.4	156,169	137.8	0.0	.	2	1
85+	F	2000	All	All	181	159	76	38	4,138	4,138	27,713.0	61,107	573.7	0.0	.	76	38
85+	M	2000	All	All	89	66	36	18	1,867	1,867	11,297.4	25,229	584.2	0.0	.	36	18
85+	F	2001	All	All	411	349	194	97	8,712	8,712	55,835.2	68,364	625.1	0.0	.	194	97
85+	M	2001	All	All	221	175	58	28	4,035	4,035	22,955.9	28,721	762.3	0.0	.	58	28
85+	F	2002	All	All	477	377	198	97	9,184	9,184	58,256.6	71,578	647.1	0.0	.	198	97
85+	M	2002	All	All	184	142	56	27	4,294	4,294	24,085.9	30,422	589.6	0.0	.	56	27
85+	F	2003	All	All	506	406	174	84	9,603	9,603	60,710.0	74,336	668.8	0.0	.	174	84
85+	M	2003	All	All	213	163	86	41	4,513	4,513	25,550.3	31,913	638.0	0.0	.	86	41
85+	F	2004	All	All	548	411	198	96	9,675	9,675	65,522.9	82,223	627.3	0.0	.	198	96
85+	M	2004	All	All	276	200	122	59	4,677	4,677	28,185.7	36,255	709.6	0.0	.	122	59
85+	F	2005	All	All	869	638	226	111	10,499	10,499	71,913.9	87,754	887.2	0.1	.	226	111
85+	M	2005	All	All	375	264	98	49	5,033	5,033	31,568.8	39,486	836.3	0.1	.	98	49
85+	F	2006	All	All	921	628	234	116	10,247	10,247	74,824.2	90,863	839.3	0.1	.	234	116
85+	M	2006	All	All	404	261	104	52	5,176	5,176	33,474.3	41,576	779.7	0.1	.	104	52
85+	F	2007	All	All	902	614	220	107	10,300	10,300	75,529.8	90,702	812.9	0.1	.	220	107
85+	M	2007	All	All	478	291	120	59	5,068	5,068	34,164.8	41,656	851.8	0.1	.	120	59
85+	F	2008	All	All	1,077	638	246	122	10,587	10,587	78,527.5	93,667	812.5	0.1	.	246	122

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Primary Analysis

Age Category (Years)			Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record		Members with Record of Death and Corresponding COD Record		Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
Death Codes	Death Codes	Record					Record	Member-Years	Members	Member-Years	Deaths	Death Rate					Related COD Codes	Related COD Codes			
85+	M	2008	All	All	434	278	84	41	5,235	5,235	35,933.1	43,520	773.7	0.1	.	84	41				
85+	F	2009	All	All	978	591	234	117	10,710	10,710	81,434.6	96,935	725.7	0.1	.	234	117				
85+	M	2009	All	All	527	308	126	63	5,428	5,428	37,753.6	45,651	815.8	0.1	.	126	63				
85+	F	2010	All	All	1,148	661	248	122	11,146	11,146	84,441.0	100,334	782.8	0.1	.	248	122				
85+	M	2010	All	All	587	322	138	68	5,718	5,718	39,759.8	47,938	809.9	0.1	.	138	68				
85+	F	2011	All	All	1,115	638	252	124	11,572	11,572	88,205.7	104,823	723.3	0.1	.	252	124				
85+	M	2011	All	All	541	284	142	70	6,077	6,077	41,977.5	50,875	676.6	0.0	.	142	70				
85+	F	2012	All	All	1,285	714	266	132	11,915	11,915	92,146.9	108,812	774.8	0.1	.	266	132				
85+	M	2012	All	All	587	317	118	59	6,470	6,470	44,506.2	53,531	712.3	0.0	.	118	59				
85+	F	2013	All	All	1,317	747	266	129	13,054	13,054	94,665.2	112,244	789.1	0.1	.	266	129				
85+	M	2013	All	All	739	385	146	71	7,174	7,174	46,385.4	56,033	830.0	0.1	.	146	71				
85+	F	2014	All	All	1,511	824	262	129	13,035	13,035	95,101.8	112,218	866.4	0.1	.	262	129				
85+	M	2014	All	All	743	386	168	83	6,941	6,941	47,123.6	56,612	819.1	0.1	.	168	83				
85+	F	2015	All	All	1,430	806	298	147	13,020	13,020	93,053.1	112,023	866.2	0.1	.	298	147				
85+	M	2015	All	All	675	357	112	55	6,975	6,975	47,352.2	58,199	753.9	0.1	.	112	55				
85+	F	2016	All	All	406	252	10	5	8,917	8,917	78,839.2	91,760	319.6	0.0	.	10	5				
85+	M	2016	All	All	247	142	14	7	5,941	5,941	45,639.0	54,402	311.1	0.0	.	14	7				
85+	F	2017	All	All	214	121	4	2	5,014	5,014	42,709.9	87,291	283.3	0.0	.	4	2				
85+	M	2017	All	All	147	84	2	1	3,495	3,495	25,048.6	51,795	335.3	0.0	.	2	1				
All	All	All	American Indian/Alaskan Native	All	397	212	110	54	3,708	3,708	690,475.0	111,257	30.7	0.1	.	110	54				
All	All	All	Asian	All	5,468	3,073	2,386	1,165	42,422	42,422	11,575,696.2	1,664,660	26.5	0.1	.	2,386	1,165				
All	All	All	Black/African American	All	8,136	5,012	2,916	1,437	95,701	95,701	12,651,408.7	1,960,046	39.6	0.1	.	2,916	1,437				
All	All	All	Native Hawaiian/Pacific Islander	All	705	428	276	134	6,333	6,333	1,523,448.1	212,529	28.1	0.1	.	276	134				
All	All	All	Unknown	All	14,539	7,421	4,520	2,209	135,667	135,667	38,430,210.1	11,188,504	19.3	0.1	.	4,520	2,209				
All	All	All	White	All	51,030	31,021	16,866	8,243	648,858	648,858	63,974,175.1	9,575,649	48.5	0.0	.	16,866	8,243				
All	All	All	All	No	28,575	18,725	10,282	5,047	421,413	421,413	37,119,593.6	6,021,371	50.4	0.0	.	10,282	5,047				
All	All	All	All	Unknown	46,777	25,674	14,876	7,273	467,681	467,681	79,109,298.1	16,744,922	32.5	0.1	.	14,876	7,273				
All	All	All	All	Yes	4,923	2,768	1,916	922	43,595	43,595	12,616,521.6	1,946,352	21.9	0.1	.	1,916	922				

Table 3a. Number of Stroke-Related Cause of Death (COD) Codes, Main and Primary Analysis, by Source

Source	Aggregate
N: National Death Index	1,016
S: State Death Files	24,752
L: Other, locally defined	1,118
T: Tumor Data	188
Total	27,074

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members								Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members					
All	All	All	All	All	36,040	21,740	27,074	13,242	932,689	932,689	128,845,413	24,712,645	16.9	0.0	16.5	27,074	13,242
<45	All	All	All	All	1,646	1,056	1,602	775	52,215	52,215	76,679,294.5	18,007,648	1.4	0.0	.	1,602	775
45-54	All	All	All	All	2,742	1,612	2,760	1,340	63,852	63,852	19,081,661.5	5,278,030	8.4	0.0	.	2,760	1,340
55-64	All	All	All	All	4,858	2,772	4,236	2,066	118,234	118,234	16,401,336.4	4,174,214	16.9	0.0	.	4,236	2,066
65-74	All	All	All	All	6,968	4,117	5,374	2,619	172,116	172,116	9,534,659.2	2,279,937	43.2	0.0	.	5,374	2,619
75-84	All	All	All	All	10,651	6,418	7,766	3,816	250,827	250,827	5,204,085.1	1,169,299	123.3	0.0	.	7,766	3,816
85+	All	All	All	All	9,175	5,765	5,336	2,626	275,445	275,445	1,942,192.3	512,834	296.8	0.0	.	5,336	2,626
All	F	All	All	All	20,207	12,468	15,272	7,455	498,316	498,316	68,304,045.5	12,757,524	18.3	0.0	.	15,272	7,455
All	M	All	All	All	15,833	9,272	11,802	5,787	434,373	434,373	60,541,367.8	11,955,121	15.3	0.0	.	11,802	5,787
<45	F	All	All	All	827	519	872	417	22,299	22,299	39,900,261.3	9,189,785	1.3	0.0	.	872	417
<45	M	All	All	All	819	537	730	358	29,916	29,916	36,779,033.2	8,817,863	1.5	0.0	.	730	358
45-54	F	All	All	All	1,403	819	1,410	684	27,965	27,965	10,080,566.2	2,748,205	8.1	0.0	.	1,410	684
45-54	M	All	All	All	1,339	793	1,350	656	35,887	35,887	9,001,095.3	2,529,825	8.8	0.0	.	1,350	656
55-64	F	All	All	All	2,230	1,301	2,154	1,041	52,024	52,024	8,737,613.7	2,192,926	14.9	0.0	.	2,154	1,041
55-64	M	All	All	All	2,628	1,471	2,082	1,025	66,210	66,210	7,663,722.8	1,981,288	19.2	0.0	.	2,082	1,025
65-74	F	All	All	All	3,436	2,076	2,728	1,319	81,222	81,222	5,201,021.6	1,223,070	39.9	0.0	.	2,728	1,319
65-74	M	All	All	All	3,532	2,041	2,646	1,300	90,894	90,894	4,333,637.6	1,056,867	47.1	0.0	.	2,646	1,300
75-84	F	All	All	All	6,088	3,769	4,502	2,219	133,478	133,478	3,064,193.8	676,985	123.0	0.0	.	4,502	2,219
75-84	M	All	All	All	4,563	2,649	3,264	1,597	117,349	117,349	2,139,891.2	492,314	123.8	0.0	.	3,264	1,597
85+	F	All	All	All	6,223	3,984	3,606	1,775	181,328	181,328	1,319,430.3	337,545	301.9	0.0	.	3,606	1,775
85+	M	All	All	All	2,952	1,781	1,730	851	94,117	94,117	622,762.0	175,289	286.0	0.0	.	1,730	851
All	All	2000	All	All	671	502	808	389	24,352	24,352	3,265,482.3	7,070,831	15.4	0.0	16.4	808	389
All	All	2001	All	All	1,499	1,108	1,738	844	50,915	50,915	6,483,143.4	7,612,138	17.1	0.0	18.4	1,738	844
All	All	2002	All	All	1,505	1,115	1,662	805	53,216	53,216	6,546,876.2	7,743,773	17.0	0.0	17.8	1,662	805
All	All	2003	All	All	1,626	1,186	1,756	843	54,738	54,738	6,525,866.5	7,738,499	18.2	0.0	18.6	1,756	843
All	All	2004	All	All	1,687	1,178	1,834	896	55,151	55,151	6,820,683.9	8,226,065	17.3	0.0	17.2	1,834	896
All	All	2005	All	All	2,198	1,491	1,942	948	57,905	57,905	7,307,556.6	8,830,118	20.4	0.0	20.3	1,942	948
All	All	2006	All	All	2,216	1,402	1,762	862	56,139	56,139	7,528,293.6	8,844,496	18.6	0.0	18.7	1,762	862
All	All	2007	All	All	2,277	1,424	1,744	856	54,242	54,242	7,549,243.6	8,824,893	18.9	0.0	19.1	1,744	856
All	All	2008	All	All	2,346	1,402	1,652	816	54,737	54,737	7,649,117.1	8,987,418	18.3	0.0	18.3	1,652	816
All	All	2009	All	All	2,181	1,276	1,670	822	54,251	54,251	7,747,500.9	9,091,018	16.5	0.0	16.4	1,670	822
All	All	2010	All	All	2,368	1,320	1,700	833	54,485	54,485	7,918,332.3	9,256,124	16.7	0.0	16.5	1,700	833
All	All	2011	All	All	2,543	1,376	1,820	888	56,226	56,226	8,120,707.1	9,454,662	16.9	0.0	16.4	1,820	888
All	All	2012	All	All	2,664	1,480	1,766	871	58,704	58,704	8,263,418.9	9,527,543	17.9	0.0	16.9	1,766	871
All	All	2013	All	All	2,812	1,444	1,674	819	61,579	61,579	8,278,595.6	9,579,268	17.4	0.0	16.1	1,674	819
All	All	2014	All	All	3,026	1,604	1,814	894	62,002	62,002	8,473,785.2	9,889,824	18.9	0.0	17.4	1,814	894
All	All	2015	All	All	2,676	1,434	1,618	799	62,118	62,118	8,784,751.0	10,235,706	16.3	0.0	15.5	1,618	799
All	All	2016	All	All	1,163	664	102	51	39,919	39,919	7,602,857.6	8,929,174	8.7	0.0	7.9	102	51

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members				Records of Death in Table	Members with Record of Death in Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and a Corresponding COD Record									
All	All	2017	All	All	582	334	12	6	22,010	22,010	3,979,201.6	8,349,076	8.4	0.0	7.2	12	6
<45	All	2000	All	All	26	20	48	24	1,750	1,750	2,073,595.0	4,606,003	1.0	0.0	.	48	24
<45	All	2001	All	All	81	60	148	68	3,569	3,569	4,103,577.0	5,038,056	1.5	0.0	.	148	68
<45	All	2002	All	All	86	65	130	64	3,796	3,796	4,094,231.7	5,074,975	1.6	0.0	.	130	64
<45	All	2003	All	All	143	92	136	64	3,560	3,560	4,016,995.2	5,002,994	2.3	0.0	.	136	64
<45	All	2004	All	All	124	82	136	65	3,624	3,624	4,135,389.1	5,217,502	2.0	0.0	.	136	65
<45	All	2005	All	All	113	81	138	63	3,596	3,596	4,388,056.8	5,561,833	1.8	0.0	.	138	63
<45	All	2006	All	All	108	73	92	46	3,308	3,308	4,526,700.5	5,580,565	1.6	0.0	.	92	46
<45	All	2007	All	All	92	66	88	44	3,319	3,319	4,528,797.5	5,565,264	1.5	0.0	.	88	44
<45	All	2008	All	All	114	71	88	42	3,041	3,041	4,565,132.0	5,648,968	1.6	0.0	.	88	42
<45	All	2009	All	All	88	50	88	43	3,037	3,037	4,607,923.1	5,668,124	1.1	0.0	.	88	43
<45	All	2010	All	All	100	62	96	46	2,944	2,944	4,704,546.2	5,747,234	1.3	0.0	.	96	46
<45	All	2011	All	All	129	71	100	50	2,870	2,870	4,804,235.3	5,839,797	1.5	0.0	.	100	50
<45	All	2012	All	All	105	60	94	47	3,014	3,014	4,862,280.7	5,848,313	1.2	0.0	.	94	47
<45	All	2013	All	All	89	48	64	32	2,906	2,906	4,823,751.9	5,825,977	1.0	0.0	.	64	32
<45	All	2014	All	All	103	64	80	39	2,997	2,997	4,944,989.1	5,982,480	1.3	0.0	.	80	39
<45	All	2015	All	All	84	52	72	36	3,188	3,188	5,171,892.8	6,236,216	1.0	0.0	.	72	36
<45	All	2016	All	All	50	34	4	2	1,151	1,151	4,174,907.5	5,154,482	0.8	0.0	.	4	2
<45	All	2017	All	All	11	5	0	0	545	545	2,152,293.1	4,691,375	0.2	0.0	.	0	0
45-54	All	2000	All	All	68	49	86	41	1,777	1,777	483,633.7	1,064,035	10.1	0.0	.	86	41
45-54	All	2001	All	All	119	81	180	85	3,834	3,834	961,689.9	1,171,847	8.4	0.0	.	180	85
45-54	All	2002	All	All	155	111	186	92	3,987	3,987	973,206.0	1,202,357	11.4	0.0	.	186	92
45-54	All	2003	All	All	157	108	194	93	4,211	4,211	980,351.5	1,210,341	11.0	0.0	.	194	93
45-54	All	2004	All	All	173	102	218	104	4,195	4,195	1,039,798.8	1,314,546	9.8	0.0	.	218	104
45-54	All	2005	All	All	211	134	234	109	4,457	4,457	1,127,941.0	1,432,126	11.9	0.0	.	234	109
45-54	All	2006	All	All	194	108	198	97	4,268	4,268	1,159,523.2	1,424,199	9.3	0.0	.	198	97
45-54	All	2007	All	All	226	127	202	100	4,022	4,022	1,169,380.6	1,428,804	10.9	0.0	.	202	100
45-54	All	2008	All	All	222	120	192	96	4,085	4,085	1,179,371.2	1,448,806	10.2	0.0	.	192	96
45-54	All	2009	All	All	176	93	186	89	4,082	4,082	1,182,473.8	1,459,501	7.9	0.0	.	186	89
45-54	All	2010	All	All	145	82	138	69	3,782	3,782	1,188,540.8	1,466,377	6.9	0.0	.	138	69
45-54	All	2011	All	All	191	105	200	96	3,923	3,923	1,194,682.6	1,466,473	8.8	0.0	.	200	96
45-54	All	2012	All	All	192	109	184	92	3,949	3,949	1,187,165.6	1,444,840	9.2	0.0	.	184	92
45-54	All	2013	All	All	155	84	130	63	3,694	3,694	1,168,902.9	1,432,936	7.2	0.0	.	130	63
45-54	All	2014	All	All	135	78	122	61	3,762	3,762	1,173,795.0	1,481,403	6.6	0.0	.	122	61
45-54	All	2015	All	All	126	72	108	52	3,682	3,682	1,198,540.1	1,507,312	6.0	0.0	.	108	52
45-54	All	2016	All	All	83	40	2	1	1,451	1,451	1,131,209.2	1,418,332	3.5	0.0	.	2	1
45-54	All	2017	All	All	14	9	0	0	691	691	581,455.6	1,271,358	1.5	0.0	.	0	0
55-64	All	2000	All	All	116	73	118	55	3,186	3,186	325,118.1	707,840	22.5	0.0	.	118	55

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
55-64	All	2001	All	All	206	144	258	127	6,277	6,277	652,600.4	787,087	22.1	0.0	.	258	127
55-64	All	2002	All	All	243	160	282	133	6,727	6,727	694,788.8	839,368	23.0	0.0	.	282	133
55-64	All	2003	All	All	175	124	242	116	6,851	6,851	728,067.1	877,072	17.0	0.0	.	242	116
55-64	All	2004	All	All	244	169	284	140	7,045	7,045	796,195.3	983,173	21.2	0.0	.	284	140
55-64	All	2005	All	All	272	172	266	133	7,336	7,336	883,694.4	1,091,422	19.5	0.0	.	266	133
55-64	All	2006	All	All	296	169	286	136	7,231	7,231	923,240.3	1,103,706	18.3	0.0	.	286	136
55-64	All	2007	All	All	348	185	298	147	7,285	7,285	956,296.2	1,135,772	19.3	0.0	.	298	147
55-64	All	2008	All	All	313	191	260	129	7,267	7,267	988,210.8	1,177,212	19.3	0.0	.	260	129
55-64	All	2009	All	All	317	170	266	129	7,262	7,262	1,019,775.3	1,222,057	16.7	0.0	.	266	129
55-64	All	2010	All	All	305	164	292	143	7,127	7,127	1,056,953.1	1,263,951	15.5	0.0	.	292	143
55-64	All	2011	All	All	356	192	280	136	7,450	7,450	1,098,628.9	1,312,606	17.5	0.0	.	280	136
55-64	All	2012	All	All	350	190	278	134	7,716	7,716	1,113,653.9	1,328,956	17.1	0.0	.	278	134
55-64	All	2013	All	All	334	165	258	129	7,715	7,715	1,120,405.4	1,339,327	14.7	0.0	.	258	129
55-64	All	2014	All	All	414	220	294	144	7,843	7,843	1,141,228.3	1,405,010	19.3	0.0	.	294	144
55-64	All	2015	All	All	356	171	252	124	7,954	7,954	1,174,447.8	1,438,785	14.6	0.0	.	252	124
55-64	All	2016	All	All	137	72	20	10	3,897	3,897	1,132,078.5	1,386,830	6.4	0.0	.	20	10
55-64	All	2017	All	All	76	41	2	1	2,065	2,065	595,954.0	1,277,855	6.9	0.0	.	2	1
65-74	All	2000	All	All	153	118	202	96	4,852	4,852	216,573.8	468,090	54.5	0.0	.	202	96
65-74	All	2001	All	All	325	235	384	186	10,259	10,259	429,720.2	502,987	54.7	0.0	.	384	186
65-74	All	2002	All	All	305	221	340	163	10,325	10,325	436,159.6	512,859	50.7	0.0	.	340	163
65-74	All	2003	All	All	361	259	390	185	10,502	10,502	440,649.3	519,381	58.8	0.0	.	390	185
65-74	All	2004	All	All	312	210	330	162	10,377	10,377	463,511.5	555,529	45.3	0.0	.	330	162
65-74	All	2005	All	All	388	265	416	202	10,722	10,722	491,175.9	588,338	54.0	0.0	.	416	202
65-74	All	2006	All	All	383	241	304	148	10,004	10,004	494,011.3	583,378	48.8	0.0	.	304	148
65-74	All	2007	All	All	406	257	326	159	9,501	9,501	483,614.2	568,431	53.1	0.0	.	326	159
65-74	All	2008	All	All	414	237	302	150	9,760	9,760	499,153.6	582,044	47.5	0.0	.	302	150
65-74	All	2009	All	All	400	240	328	163	9,381	9,381	515,122.2	605,785	46.6	0.0	.	328	163
65-74	All	2010	All	All	486	256	338	164	9,337	9,337	537,059.1	630,043	47.7	0.0	.	338	164
65-74	All	2011	All	All	431	229	332	161	9,777	9,777	576,117.9	685,809	39.7	0.0	.	332	161
65-74	All	2012	All	All	537	294	354	174	10,653	10,653	635,841.5	750,509	46.2	0.0	.	354	174
65-74	All	2013	All	All	586	277	344	167	11,288	11,288	687,697.0	808,601	40.3	0.0	.	344	167
65-74	All	2014	All	All	617	308	350	172	11,773	11,773	730,735.4	852,779	42.1	0.0	.	350	172
65-74	All	2015	All	All	505	266	312	156	11,728	11,728	758,654.9	891,153	35.1	0.0	.	312	156
65-74	All	2016	All	All	238	136	20	10	7,677	7,677	730,208.9	846,716	18.6	0.0	.	20	10
65-74	All	2017	All	All	121	68	2	1	4,200	4,200	408,652.9	821,161	16.6	0.0	.	2	1
75-84	All	2000	All	All	202	158	242	117	6,782	6,782	127,497.8	275,461	123.9	0.0	.	242	117
75-84	All	2001	All	All	476	356	516	253	14,229	14,229	256,665.1	300,582	138.7	0.0	.	516	253
75-84	All	2002	All	All	434	339	470	229	14,903	14,903	266,035.4	312,660	127.4	0.0	.	470	229

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members								Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members					
75-84	All	2003	All	All	515	378	534	260	15,498	15,498	273,442.1	320,077	138.2	0.0	.	534	260
75-84	All	2004	All	All	502	355	546	270	15,558	15,558	291,988.8	349,358	121.6	0.0	.	546	270
75-84	All	2005	All	All	711	477	564	281	16,262	16,262	313,036.7	368,763	152.4	0.0	.	564	281
75-84	All	2006	All	All	699	455	544	267	15,905	15,905	316,291.7	368,889	143.9	0.0	.	544	267
75-84	All	2007	All	All	612	403	490	240	14,747	14,747	301,238.9	349,161	133.8	0.0	.	490	240
75-84	All	2008	All	All	666	409	480	236	14,762	14,762	302,581.8	347,822	135.2	0.0	.	480	236
75-84	All	2009	All	All	630	380	442	218	14,351	14,351	302,819.8	350,862	125.5	0.0	.	442	218
75-84	All	2010	All	All	687	373	450	221	14,431	14,431	306,871.0	355,629	121.5	0.0	.	450	221
75-84	All	2011	All	All	699	368	514	251	14,557	14,557	316,725.5	367,894	116.2	0.0	.	514	251
75-84	All	2012	All	All	717	381	472	233	14,987	14,987	327,708.0	379,145	116.3	0.0	.	472	233
75-84	All	2013	All	All	852	417	466	228	15,748	15,748	336,684.8	390,869	123.9	0.0	.	466	228
75-84	All	2014	All	All	905	467	538	266	15,651	15,651	340,735.2	394,433	137.1	0.0	.	538	266
75-84	All	2015	All	All	791	401	464	229	15,571	15,571	340,745.2	401,715	117.7	0.0	.	464	229
75-84	All	2016	All	All	364	193	32	16	10,885	10,885	309,935.8	357,738	62.3	0.0	.	32	16
75-84	All	2017	All	All	189	108	2	1	6,000	6,000	173,081.4	348,067	62.4	0.0	.	2	1
85+	All	2000	All	All	106	84	112	56	6,005	6,005	39,010.4	86,336	215.3	0.0	.	112	56
85+	All	2001	All	All	292	232	252	125	12,747	12,747	78,791.1	97,085	294.4	0.0	.	252	125
85+	All	2002	All	All	282	219	254	124	13,478	13,478	82,342.5	102,000	266.0	0.0	.	254	124
85+	All	2003	All	All	275	225	260	125	14,116	14,116	86,260.2	106,249	260.8	0.0	.	260	125
85+	All	2004	All	All	332	260	320	155	14,352	14,352	93,708.6	118,478	277.5	0.0	.	320	155
85+	All	2005	All	All	503	362	324	160	15,532	15,532	103,482.7	127,240	349.8	0.0	.	324	160
85+	All	2006	All	All	536	356	338	168	15,423	15,423	108,298.5	132,439	328.7	0.0	.	338	168
85+	All	2007	All	All	593	386	340	166	15,368	15,368	109,694.6	132,358	351.9	0.0	.	340	166
85+	All	2008	All	All	617	374	330	163	15,822	15,822	114,460.6	137,187	326.8	0.0	.	330	163
85+	All	2009	All	All	570	343	360	180	16,138	16,138	119,188.3	142,586	287.8	0.0	.	360	180
85+	All	2010	All	All	645	383	386	190	16,864	16,864	124,200.8	148,272	308.4	0.0	.	386	190
85+	All	2011	All	All	737	411	394	194	17,649	17,649	130,183.2	155,698	315.7	0.0	.	394	194
85+	All	2012	All	All	763	446	384	191	18,385	18,385	136,653.1	162,343	326.4	0.0	.	384	191
85+	All	2013	All	All	796	453	412	200	20,228	20,228	141,050.5	168,277	321.2	0.0	.	412	200
85+	All	2014	All	All	852	467	430	212	19,976	19,976	142,225.4	168,830	328.4	0.0	.	430	212
85+	All	2015	All	All	814	472	410	202	19,995	19,995	140,405.3	170,222	336.2	0.0	.	410	202
85+	All	2016	All	All	291	189	24	12	14,858	14,858	124,478.2	146,162	151.8	0.0	.	24	12
85+	All	2017	All	All	171	103	6	3	8,509	8,509	67,758.5	139,086	152.0	0.0	.	6	3
All	F	2000	All	All	372	277	442	212	12,841	12,841	1,733,630.5	3,745,400	16.0	0.0	.	442	212
All	M	2000	All	All	299	225	366	177	11,511	11,511	1,531,851.8	3,325,431	14.7	0.0	.	366	177
All	F	2001	All	All	860	639	1,008	489	27,103	27,103	3,442,534.7	4,021,150	18.6	0.0	.	1,008	489
All	M	2001	All	All	639	469	730	355	23,812	23,812	3,040,608.7	3,590,988	15.4	0.0	.	730	355
All	F	2002	All	All	853	640	948	459	28,230	28,230	3,476,371.4	4,090,749	18.4	0.0	.	948	459

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members								Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members					
All	M	2002	All	All	652	475	714	346	24,986	24,986	3,070,504.7	3,653,024	15.5	0.0	.	714	346
All	F	2003	All	All	939	701	1,018	487	29,225	29,225	3,467,145.7	4,093,147	20.2	0.0	.	1,018	487
All	M	2003	All	All	687	485	738	356	25,513	25,513	3,058,720.8	3,645,352	15.9	0.0	.	738	356
All	F	2004	All	All	955	694	1,044	507	29,531	29,531	3,626,632.2	4,358,320	19.1	0.0	.	1,044	507
All	M	2004	All	All	732	484	790	389	25,620	25,620	3,194,051.6	3,867,745	15.2	0.0	.	790	389
All	F	2005	All	All	1,279	867	1,112	541	30,932	30,932	3,885,176.6	4,676,687	22.3	0.0	.	1,112	541
All	M	2005	All	All	919	624	830	407	26,973	26,973	3,422,380.0	4,153,431	18.2	0.0	.	830	407
All	F	2006	All	All	1,294	824	1,008	490	30,048	30,048	3,995,822.7	4,680,320	20.6	0.0	.	1,008	490
All	M	2006	All	All	922	578	754	372	26,091	26,091	3,532,470.9	4,164,176	16.4	0.0	.	754	372
All	F	2007	All	All	1,295	818	958	472	29,070	29,070	4,001,162.6	4,664,665	20.4	0.0	.	958	472
All	M	2007	All	All	982	606	786	384	25,172	25,172	3,548,081.0	4,160,228	17.1	0.0	.	786	384
All	F	2008	All	All	1,352	823	914	452	29,411	29,411	4,052,641.0	4,748,304	20.3	0.0	.	914	452
All	M	2008	All	All	994	579	738	364	25,326	25,326	3,596,476.0	4,239,114	16.1	0.0	.	738	364
All	F	2009	All	All	1,138	675	878	430	29,304	29,304	4,117,085.7	4,811,557	16.4	0.0	.	878	430
All	M	2009	All	All	1,043	601	792	392	24,947	24,947	3,630,415.1	4,279,461	16.6	0.0	.	792	392
All	F	2010	All	All	1,309	760	958	470	29,352	29,352	4,218,318.0	4,910,750	18.0	0.0	.	958	470
All	M	2010	All	All	1,059	560	742	363	25,133	25,133	3,700,014.3	4,345,374	15.1	0.0	.	742	363
All	F	2011	All	All	1,406	794	1,034	506	30,306	30,306	4,323,540.1	5,015,224	18.4	0.0	.	1,034	506
All	M	2011	All	All	1,137	582	786	382	25,920	25,920	3,797,166.9	4,439,438	15.3	0.0	.	786	382
All	F	2012	All	All	1,487	843	1,010	494	31,507	31,507	4,394,360.3	5,051,941	19.2	0.0	.	1,010	494
All	M	2012	All	All	1,177	637	756	377	27,197	27,197	3,869,058.6	4,475,602	16.5	0.0	.	756	377
All	F	2013	All	All	1,590	841	986	481	32,905	32,905	4,395,345.2	5,074,204	19.1	0.0	.	986	481
All	M	2013	All	All	1,222	603	688	338	28,674	28,674	3,883,250.5	4,505,064	15.5	0.0	.	688	338
All	F	2014	All	All	1,702	931	998	491	33,361	33,361	4,496,695.3	5,222,592	20.7	0.0	.	998	491
All	M	2014	All	All	1,324	673	816	403	28,641	28,641	3,977,089.9	4,667,232	16.9	0.0	.	816	403
All	F	2015	All	All	1,473	804	898	445	33,484	33,484	4,659,689.2	5,397,787	17.3	0.0	.	898	445
All	M	2015	All	All	1,203	630	720	354	28,634	28,634	4,125,061.8	4,837,919	15.3	0.0	.	720	354
All	F	2016	All	All	608	362	52	26	20,473	20,473	3,946,765.6	4,611,176	9.2	0.0	.	52	26
All	M	2016	All	All	555	302	50	25	19,446	19,446	3,656,092.1	4,317,998	8.3	0.0	.	50	25
All	F	2017	All	All	295	175	6	3	11,233	11,233	2,071,128.6	4,325,660	8.4	0.0	.	6	3
All	M	2017	All	All	287	159	6	3	10,777	10,777	1,908,073.0	4,023,416	8.3	0.0	.	6	3
<45	F	2000	All	All	10	7	22	11	727	727	1,080,761.2	2,396,652	0.6	0.0	.	22	11
<45	M	2000	All	All	16	13	26	13	1,023	1,023	992,833.9	2,209,351	1.3	0.0	.	26	13
<45	F	2001	All	All	43	31	84	38	1,466	1,466	2,137,799.7	2,614,368	1.5	0.0	.	84	38
<45	M	2001	All	All	38	29	64	30	2,103	2,103	1,965,777.2	2,423,688	1.5	0.0	.	64	30
<45	F	2002	All	All	49	34	68	34	1,521	1,521	2,130,649.6	2,632,375	1.6	0.0	.	68	34
<45	M	2002	All	All	37	31	62	30	2,275	2,275	1,963,582.1	2,442,600	1.6	0.0	.	62	30
<45	F	2003	All	All	77	49	84	40	1,542	1,542	2,091,318.3	2,599,056	2.3	0.0	.	84	40

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
<45	M	2003	All	All	66	43	52	24	2,018	2,018	1,925,676.8	2,403,938	2.2	0.0	.	52	24
<45	F	2004	All	All	71	45	90	42	1,563	1,563	2,155,321.2	2,715,255	2.1	0.0	.	90	42
<45	M	2004	All	All	53	37	46	23	2,061	2,061	1,980,067.9	2,502,247	1.9	0.0	.	46	23
<45	F	2005	All	All	70	48	86	38	1,491	1,491	2,287,699.5	2,893,988	2.1	0.0	.	86	38
<45	M	2005	All	All	43	33	52	25	2,105	2,105	2,100,357.3	2,667,845	1.6	0.0	.	52	25
<45	F	2006	All	All	54	32	52	26	1,426	1,426	2,358,068.9	2,903,840	1.4	0.0	.	52	26
<45	M	2006	All	All	54	41	40	20	1,882	1,882	2,168,631.5	2,676,725	1.9	0.0	.	40	20
<45	F	2007	All	All	35	27	36	18	1,406	1,406	2,355,718.1	2,894,205	1.1	0.0	.	36	18
<45	M	2007	All	All	57	39	52	26	1,913	1,913	2,173,079.4	2,671,059	1.8	0.0	.	52	26
<45	F	2008	All	All	64	40	38	17	1,282	1,282	2,374,122.5	2,937,544	1.7	0.0	.	38	17
<45	M	2008	All	All	50	31	50	25	1,759	1,759	2,191,009.5	2,711,424	1.4	0.0	.	50	25
<45	F	2009	All	All	31	17	40	19	1,357	1,357	2,405,712.3	2,954,419	0.7	0.0	.	40	19
<45	M	2009	All	All	57	33	48	24	1,680	1,680	2,202,210.8	2,713,705	1.5	0.0	.	48	24
<45	F	2010	All	All	44	27	52	25	1,307	1,307	2,464,819.5	3,005,342	1.1	0.0	.	52	25
<45	M	2010	All	All	56	35	44	21	1,637	1,637	2,239,726.7	2,741,892	1.6	0.0	.	44	21
<45	F	2011	All	All	65	34	46	23	1,264	1,264	2,514,107.1	3,050,258	1.4	0.0	.	46	23
<45	M	2011	All	All	64	37	54	27	1,606	1,606	2,290,128.1	2,789,539	1.6	0.0	.	54	27
<45	F	2012	All	All	59	32	48	24	1,340	1,340	2,539,938.2	3,052,212	1.3	0.0	.	48	24
<45	M	2012	All	All	46	28	46	23	1,674	1,674	2,322,342.5	2,796,101	1.2	0.0	.	46	23
<45	F	2013	All	All	46	24	36	18	1,245	1,245	2,514,879.4	3,037,621	1.0	0.0	.	36	18
<45	M	2013	All	All	43	24	28	14	1,661	1,661	2,308,872.5	2,788,356	1.0	0.0	.	28	14
<45	F	2014	All	All	51	33	46	22	1,299	1,299	2,579,600.7	3,108,031	1.3	0.0	.	46	22
<45	M	2014	All	All	52	31	34	17	1,698	1,698	2,365,388.4	2,874,449	1.3	0.0	.	34	17
<45	F	2015	All	All	43	26	44	22	1,400	1,400	2,700,928.9	3,239,095	1.0	0.0	.	44	22
<45	M	2015	All	All	41	26	28	14	1,788	1,788	2,470,963.9	2,997,121	1.1	0.0	.	28	14
<45	F	2016	All	All	14	12	0	0	442	442	2,116,349.3	2,602,784	0.6	0.0	.	0	0
<45	M	2016	All	All	36	22	4	2	709	709	2,058,558.2	2,551,698	1.1	0.0	.	4	2
<45	F	2017	All	All	1	1	0	0	221	221	1,092,466.8	2,375,185	0.1	0.0	.	0	0
<45	M	2017	All	All	10	4	0	0	324	324	1,059,826.3	2,316,190	0.4	0.0	.	0	0
45-54	F	2000	All	All	35	24	40	20	750	750	255,394.0	561,436	9.4	0.0	.	40	20
45-54	M	2000	All	All	33	25	46	21	1,027	1,027	228,239.7	502,599	11.0	0.0	.	46	21
45-54	F	2001	All	All	67	44	94	44	1,639	1,639	507,735.0	616,631	8.7	0.0	.	94	44
45-54	M	2001	All	All	52	37	86	41	2,195	2,195	453,954.9	555,216	8.2	0.0	.	86	41
45-54	F	2002	All	All	79	56	88	44	1,688	1,688	513,978.7	632,245	10.9	0.0	.	88	44
45-54	M	2002	All	All	76	55	98	48	2,299	2,299	459,227.3	570,112	12.0	0.0	.	98	48
45-54	F	2003	All	All	72	52	102	48	1,735	1,735	517,359.2	636,311	10.1	0.0	.	102	48
45-54	M	2003	All	All	85	56	92	45	2,476	2,476	462,992.2	574,030	12.1	0.0	.	92	45
45-54	F	2004	All	All	84	51	116	54	1,848	1,848	549,661.4	693,435	9.3	0.0	.	116	54

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Stroke-Related COD Codes	Members with Stroke-Related COD Codes			
45-54	M	2004	All	All	89	51	102	50	2,347	2,347	490,137.5	621,111	10.4	0.0	.	102	50
45-54	F	2005	All	All	110	70	114	54	1,938	1,938	597,781.7	756,978	11.7	0.0	.	114	54
45-54	M	2005	All	All	101	64	120	55	2,519	2,519	530,159.3	675,148	12.1	0.0	.	120	55
45-54	F	2006	All	All	115	56	116	57	1,867	1,867	613,986.6	751,743	9.1	0.0	.	116	57
45-54	M	2006	All	All	79	52	82	40	2,401	2,401	545,536.6	672,456	9.5	0.0	.	82	40
45-54	F	2007	All	All	107	59	94	47	1,695	1,695	618,852.1	753,503	9.5	0.0	.	94	47
45-54	M	2007	All	All	119	68	108	53	2,327	2,327	550,528.4	675,301	12.4	0.0	.	108	53
45-54	F	2008	All	All	102	60	100	50	1,784	1,784	623,417.7	763,509	9.6	0.0	.	100	50
45-54	M	2008	All	All	120	60	92	46	2,301	2,301	555,953.5	685,297	10.8	0.0	.	92	46
45-54	F	2009	All	All	98	49	112	53	1,811	1,811	626,816.9	770,086	7.8	0.0	.	112	53
45-54	M	2009	All	All	78	44	74	36	2,271	2,271	555,656.9	689,415	7.9	0.0	.	74	36
45-54	F	2010	All	All	89	47	74	37	1,669	1,669	631,377.8	775,255	7.4	0.0	.	74	37
45-54	M	2010	All	All	56	35	64	32	2,113	2,113	557,163.0	691,122	6.3	0.0	.	64	32
45-54	F	2011	All	All	72	47	96	47	1,770	1,770	634,619.5	775,898	7.4	0.0	.	96	47
45-54	M	2011	All	All	119	58	104	49	2,153	2,153	560,063.0	690,575	10.4	0.0	.	104	49
45-54	F	2012	All	All	102	52	86	43	1,746	1,746	629,675.6	763,771	8.3	0.0	.	86	43
45-54	M	2012	All	All	90	57	98	49	2,203	2,203	557,490.0	681,069	10.2	0.0	.	98	49
45-54	F	2013	All	All	78	43	68	32	1,684	1,684	618,144.8	755,276	7.0	0.0	.	68	32
45-54	M	2013	All	All	77	41	62	31	2,010	2,010	550,758.2	677,660	7.4	0.0	.	62	31
45-54	F	2014	All	All	57	36	56	28	1,717	1,717	619,250.4	778,289	5.8	0.0	.	56	28
45-54	M	2014	All	All	78	42	66	33	2,045	2,045	554,544.6	703,114	7.6	0.0	.	66	33
45-54	F	2015	All	All	79	44	54	26	1,710	1,710	631,364.9	790,242	7.0	0.0	.	54	26
45-54	M	2015	All	All	47	28	54	26	1,972	1,972	567,175.2	717,070	4.9	0.0	.	54	26
45-54	F	2016	All	All	46	22	0	0	617	617	587,967.0	734,596	3.7	0.0	.	0	0
45-54	M	2016	All	All	37	18	2	1	834	834	543,242.2	683,736	3.3	0.0	.	2	1
45-54	F	2017	All	All	11	7	0	0	297	297	303,182.9	659,718	2.3	0.0	.	0	0
45-54	M	2017	All	All	3	2	0	0	394	394	278,272.7	611,640	0.7	0.0	.	0	0
55-64	F	2000	All	All	49	27	62	27	1,347	1,347	172,724.7	375,655	15.6	0.0	.	62	27
55-64	M	2000	All	All	67	46	56	28	1,839	1,839	152,393.4	332,185	30.2	0.0	.	56	28
55-64	F	2001	All	All	109	72	144	70	2,752	2,752	347,548.2	417,640	20.7	0.0	.	144	70
55-64	M	2001	All	All	97	72	114	57	3,525	3,525	305,052.2	369,447	23.6	0.0	.	114	57
55-64	F	2002	All	All	104	73	144	68	2,884	2,884	370,221.7	445,468	19.7	0.0	.	144	68
55-64	M	2002	All	All	139	87	138	65	3,843	3,843	324,567.1	393,900	26.8	0.0	.	138	65
55-64	F	2003	All	All	84	60	142	67	3,040	3,040	388,213.0	465,729	15.5	0.0	.	142	67
55-64	M	2003	All	All	91	64	100	49	3,811	3,811	339,854.1	411,343	18.8	0.0	.	100	49
55-64	F	2004	All	All	109	80	122	60	3,060	3,060	423,803.1	521,473	18.9	0.0	.	122	60
55-64	M	2004	All	All	135	89	162	80	3,985	3,985	372,392.2	461,700	23.9	0.0	.	162	80
55-64	F	2005	All	All	130	85	130	65	3,215	3,215	469,383.5	578,893	18.1	0.0	.	130	65

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members							Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table								
55-64	M	2005	All	All	142	87	136	68	4,121	4,121	414,310.9	512,529	21.0	0.0	.	136	68	
55-64	F	2006	All	All	157	86	130	61	3,241	3,241	488,581.2	583,363	17.6	0.0	.	130	61	
55-64	M	2006	All	All	139	83	156	75	3,990	3,990	434,659.1	520,343	19.1	0.0	.	156	75	
55-64	F	2007	All	All	166	85	146	72	3,198	3,198	506,395.4	599,950	16.8	0.0	.	146	72	
55-64	M	2007	All	All	182	100	152	75	4,087	4,087	449,900.8	535,822	22.2	0.0	.	152	75	
55-64	F	2008	All	All	152	96	144	71	3,206	3,206	523,700.6	621,959	18.3	0.0	.	144	71	
55-64	M	2008	All	All	161	95	116	58	4,061	4,061	464,510.2	555,253	20.5	0.0	.	116	58	
55-64	F	2009	All	All	111	63	114	55	3,183	3,183	543,085.3	647,933	11.6	0.0	.	114	55	
55-64	M	2009	All	All	206	107	152	74	4,079	4,079	476,689.9	574,124	22.4	0.0	.	152	74	
55-64	F	2010	All	All	130	77	152	73	3,077	3,077	565,237.1	672,592	13.6	0.0	.	152	73	
55-64	M	2010	All	All	175	87	140	70	4,050	4,050	491,716.0	591,359	17.7	0.0	.	140	70	
55-64	F	2011	All	All	174	94	160	76	3,341	3,341	588,609.2	700,600	16.0	0.0	.	160	76	
55-64	M	2011	All	All	182	98	120	60	4,109	4,109	510,019.7	612,006	19.2	0.0	.	120	60	
55-64	F	2012	All	All	147	84	148	69	3,416	3,416	596,928.9	709,994	14.1	0.0	.	148	69	
55-64	M	2012	All	All	203	106	130	65	4,300	4,300	516,725.0	618,962	20.5	0.0	.	130	65	
55-64	F	2013	All	All	165	83	138	69	3,457	3,457	599,356.4	714,068	13.8	0.0	.	138	69	
55-64	M	2013	All	All	169	82	120	60	4,258	4,258	521,048.9	625,259	15.7	0.0	.	120	60	
55-64	F	2014	All	All	203	113	146	73	3,534	3,534	609,383.5	747,915	18.5	0.0	.	146	73	
55-64	M	2014	All	All	211	107	148	71	4,309	4,309	531,844.8	657,095	20.1	0.0	.	148	71	
55-64	F	2015	All	All	154	77	122	60	3,447	3,447	625,932.1	764,065	12.3	0.0	.	122	60	
55-64	M	2015	All	All	202	94	130	64	4,507	4,507	548,515.7	674,720	17.1	0.0	.	130	64	
55-64	F	2016	All	All	55	30	10	5	1,718	1,718	600,903.4	734,067	5.0	0.0	.	10	5	
55-64	M	2016	All	All	82	42	10	5	2,179	2,179	531,175.0	652,763	7.9	0.0	.	10	5	
55-64	F	2017	All	All	31	16	0	0	908	908	317,606.2	677,842	5.0	0.0	.	0	0	
55-64	M	2017	All	All	45	25	2	1	1,157	1,157	278,347.8	600,013	9.0	0.0	.	2	1	
65-74	F	2000	All	All	82	62	104	49	2,245	2,245	119,437.5	257,853	51.9	0.0	.	104	49	
65-74	M	2000	All	All	71	56	98	47	2,607	2,607	97,136.4	210,237	57.7	0.0	.	98	47	
65-74	F	2001	All	All	184	131	220	105	4,840	4,840	237,284.4	276,911	55.2	0.0	.	220	105	
65-74	M	2001	All	All	141	104	164	81	5,419	5,419	192,435.8	226,076	54.0	0.0	.	164	81	
65-74	F	2002	All	All	158	110	160	76	4,838	4,838	241,336.9	282,340	45.6	0.0	.	160	76	
65-74	M	2002	All	All	147	111	180	87	5,487	5,487	194,822.7	230,519	57.0	0.0	.	180	87	
65-74	F	2003	All	All	173	131	210	98	4,964	4,964	243,355.4	285,560	53.8	0.0	.	210	98	
65-74	M	2003	All	All	188	128	180	87	5,538	5,538	197,293.9	233,821	64.9	0.0	.	180	87	
65-74	F	2004	All	All	156	108	174	85	4,945	4,945	255,556.2	304,936	42.3	0.0	.	174	85	
65-74	M	2004	All	All	156	102	156	77	5,432	5,432	207,955.3	250,593	49.0	0.0	.	156	77	
65-74	F	2005	All	All	210	139	210	101	5,045	5,045	269,889.5	321,815	51.5	0.0	.	210	101	
65-74	M	2005	All	All	178	126	206	101	5,677	5,677	221,286.4	266,523	56.9	0.0	.	206	101	
65-74	F	2006	All	All	176	124	158	75	4,707	4,707	270,691.8	318,259	45.8	0.0	.	158	75	

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

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					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table								
65-74	M	2006	All	All	207	117	146	73	5,297	5,297	223,319.4	265,119	52.4	0.0	.	146	73	
65-74	F	2007	All	All	224	141	168	83	4,515	4,515	264,387.5	309,472	53.3	0.0	.	168	83	
65-74	M	2007	All	All	182	116	158	76	4,986	4,986	219,226.7	258,959	52.9	0.0	.	158	76	
65-74	F	2008	All	All	184	111	126	63	4,609	4,609	272,685.5	316,469	40.7	0.0	.	126	63	
65-74	M	2008	All	All	230	126	176	87	5,151	5,151	226,468.1	265,575	55.6	0.0	.	176	87	
65-74	F	2009	All	All	190	112	150	74	4,541	4,541	280,834.9	328,997	39.9	0.0	.	150	74	
65-74	M	2009	All	All	210	128	178	89	4,840	4,840	234,287.3	276,788	54.6	0.0	.	178	89	
65-74	F	2010	All	All	237	127	184	89	4,449	4,449	292,102.2	341,460	43.5	0.0	.	184	89	
65-74	M	2010	All	All	249	129	154	75	4,888	4,888	244,956.9	288,583	52.7	0.0	.	154	75	
65-74	F	2011	All	All	214	114	174	84	4,560	4,560	312,986.6	371,236	36.4	0.0	.	174	84	
65-74	M	2011	All	All	217	115	158	77	5,217	5,217	263,131.3	314,573	43.7	0.0	.	158	77	
65-74	F	2012	All	All	265	154	190	93	5,099	5,099	345,312.2	406,514	44.6	0.0	.	190	93	
65-74	M	2012	All	All	272	140	164	81	5,554	5,554	290,529.3	343,995	48.2	0.0	.	164	81	
65-74	F	2013	All	All	268	131	174	83	5,258	5,258	373,758.5	438,193	35.0	0.0	.	174	83	
65-74	M	2013	All	All	318	146	170	84	6,030	6,030	313,938.5	370,408	46.5	0.0	.	170	84	
65-74	F	2014	All	All	307	159	160	78	5,575	5,575	397,355.3	462,563	40.0	0.0	.	160	78	
65-74	M	2014	All	All	310	149	190	94	6,198	6,198	333,380.1	390,216	44.7	0.0	.	190	94	
65-74	F	2015	All	All	227	116	152	76	5,630	5,630	413,028.1	483,243	28.1	0.0	.	152	76	
65-74	M	2015	All	All	278	150	160	80	6,098	6,098	345,626.8	407,910	43.4	0.0	.	160	80	
65-74	F	2016	All	All	122	72	12	6	3,540	3,540	391,317.0	452,219	18.4	0.0	.	12	6	
65-74	M	2016	All	All	116	64	8	4	4,137	4,137	338,891.8	394,497	18.9	0.0	.	8	4	
65-74	F	2017	All	All	59	34	2	1	1,862	1,862	219,702.2	439,966	15.5	0.0	.	2	1	
65-74	M	2017	All	All	62	34	0	0	2,338	2,338	188,950.7	381,195	18.0	0.0	.	0	0	
75-84	F	2000	All	All	130	102	138	67	3,634	3,634	77,579.9	167,411	131.5	0.0	.	138	67	
75-84	M	2000	All	All	72	56	104	50	3,148	3,148	49,918.0	108,050	112.2	0.0	.	104	50	
75-84	F	2001	All	All	261	201	272	135	7,694	7,694	156,294.1	182,441	128.6	0.0	.	272	135	
75-84	M	2001	All	All	215	155	244	118	6,535	6,535	100,371.0	118,141	154.4	0.0	.	244	118	
75-84	F	2002	All	All	250	203	290	140	8,115	8,115	161,884.8	189,741	125.4	0.0	.	290	140	
75-84	M	2002	All	All	184	136	180	89	6,788	6,788	104,150.6	122,919	130.6	0.0	.	180	89	
75-84	F	2003	All	All	327	240	306	150	8,341	8,341	166,153.3	193,858	144.4	0.0	.	306	150	
75-84	M	2003	All	All	188	138	228	110	7,157	7,157	107,288.8	126,219	128.6	0.0	.	228	110	
75-84	F	2004	All	All	306	226	344	170	8,440	8,440	176,729.6	210,446	127.9	0.0	.	344	170	
75-84	M	2004	All	All	196	129	202	100	7,118	7,118	115,259.2	138,912	111.9	0.0	.	202	100	
75-84	F	2005	All	All	422	280	346	172	8,744	8,744	188,428.5	220,979	148.6	0.0	.	346	172	
75-84	M	2005	All	All	289	197	218	109	7,518	7,518	124,608.2	147,784	158.1	0.0	.	218	109	
75-84	F	2006	All	All	400	264	318	155	8,560	8,560	189,562.8	220,244	139.3	0.0	.	318	155	
75-84	M	2006	All	All	299	191	226	112	7,345	7,345	126,728.9	148,645	150.7	0.0	.	226	112	
75-84	F	2007	All	All	362	241	294	145	7,956	7,956	180,178.9	208,173	133.8	0.0	.	294	145	

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

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					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table			Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths			
75-84	M	2007	All	All	250	162	196	95	6,791	6,791	121,060.0	140,988	133.8	0.0	.	196	95
75-84	F	2008	All	All	387	239	260	129	7,943	7,943	180,099.2	206,458	132.7	0.0	.	260	129
75-84	M	2008	All	All	279	170	220	107	6,819	6,819	122,482.6	141,364	138.8	0.0	.	220	107
75-84	F	2009	All	All	352	214	228	112	7,702	7,702	179,114.6	207,212	119.5	0.0	.	228	112
75-84	M	2009	All	All	278	166	214	106	6,649	6,649	123,705.2	143,650	134.2	0.0	.	214	106
75-84	F	2010	All	All	376	222	248	124	7,704	7,704	180,268.3	208,540	123.1	0.0	.	248	124
75-84	M	2010	All	All	311	151	202	97	6,727	6,727	126,602.7	147,089	119.3	0.0	.	202	97
75-84	F	2011	All	All	389	223	306	152	7,799	7,799	184,951.2	214,480	120.6	0.0	.	306	152
75-84	M	2011	All	All	310	145	208	99	6,758	6,758	131,774.3	153,414	110.0	0.0	.	208	99
75-84	F	2012	All	All	401	217	272	133	7,991	7,991	190,305.5	219,855	114.0	0.0	.	272	133
75-84	M	2012	All	All	316	164	200	100	6,996	6,996	137,402.5	159,290	119.4	0.0	.	200	100
75-84	F	2013	All	All	492	244	304	150	8,207	8,207	194,490.2	225,326	125.5	0.0	.	304	150
75-84	M	2013	All	All	360	173	162	78	7,541	7,541	142,194.6	165,543	121.7	0.0	.	162	78
75-84	F	2014	All	All	533	274	328	161	8,201	8,201	195,966.9	226,464	139.8	0.0	.	328	161
75-84	M	2014	All	All	372	193	210	105	7,450	7,450	144,768.3	167,969	133.3	0.0	.	210	105
75-84	F	2015	All	All	425	221	228	114	8,277	8,277	195,356.5	229,547	113.1	0.0	.	228	114
75-84	M	2015	All	All	366	180	236	115	7,294	7,294	145,388.7	172,168	123.8	0.0	.	236	115
75-84	F	2016	All	All	187	105	20	10	5,239	5,239	171,372.4	197,280	61.3	0.0	.	20	10
75-84	M	2016	All	All	177	88	12	6	5,646	5,646	138,563.3	160,458	63.5	0.0	.	12	6
75-84	F	2017	All	All	88	53	0	0	2,931	2,931	95,456.9	191,898	55.5	0.0	.	0	0
75-84	M	2017	All	All	101	55	2	1	3,069	3,069	77,624.4	156,169	70.9	0.0	.	2	1
85+	F	2000	All	All	66	55	76	38	4,138	4,138	27,713.0	61,107	198.5	0.0	.	76	38
85+	M	2000	All	All	40	29	36	18	1,867	1,867	11,297.4	25,229	256.7	0.0	.	36	18
85+	F	2001	All	All	196	160	194	97	8,712	8,712	55,835.2	68,364	286.6	0.0	.	194	97
85+	M	2001	All	All	96	72	58	28	4,035	4,035	22,955.9	28,721	313.6	0.0	.	58	28
85+	F	2002	All	All	213	164	198	97	9,184	9,184	58,256.6	71,578	281.5	0.0	.	198	97
85+	M	2002	All	All	69	55	56	27	4,294	4,294	24,085.9	30,422	228.3	0.0	.	56	27
85+	F	2003	All	All	206	169	174	84	9,603	9,603	60,710.0	74,336	278.4	0.0	.	174	84
85+	M	2003	All	All	69	56	86	41	4,513	4,513	25,550.3	31,913	219.2	0.0	.	86	41
85+	F	2004	All	All	229	184	198	96	9,675	9,675	65,522.9	82,223	280.8	0.0	.	198	96
85+	M	2004	All	All	103	76	122	59	4,677	4,677	28,185.7	36,255	269.6	0.0	.	122	59
85+	F	2005	All	All	337	245	226	111	10,499	10,499	71,913.9	87,754	340.7	0.0	.	226	111
85+	M	2005	All	All	166	117	98	49	5,033	5,033	31,568.8	39,486	370.6	0.0	.	98	49
85+	F	2006	All	All	392	262	234	116	10,247	10,247	74,824.2	90,863	350.2	0.0	.	234	116
85+	M	2006	All	All	144	94	104	52	5,176	5,176	33,474.3	41,576	280.8	0.0	.	104	52
85+	F	2007	All	All	401	265	220	107	10,300	10,300	75,529.8	90,702	350.9	0.0	.	220	107
85+	M	2007	All	All	192	121	120	59	5,068	5,068	34,164.8	41,656	354.2	0.0	.	120	59
85+	F	2008	All	All	463	277	246	122	10,587	10,587	78,527.5	93,667	352.7	0.0	.	246	122

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Stroke-Related COD Codes	Members with Stroke-Related COD Codes	
85+	M	2008	All	All	154	97	84	41	5,235	5,235	35,933.1	43,520	269.9	0.0	.	84	41
85+	F	2009	All	All	356	220	234	117	10,710	10,710	81,434.6	96,935	270.2	0.0	.	234	117
85+	M	2009	All	All	214	123	126	63	5,428	5,428	37,753.6	45,651	325.8	0.0	.	126	63
85+	F	2010	All	All	433	260	248	122	11,146	11,146	84,441.0	100,334	307.9	0.0	.	248	122
85+	M	2010	All	All	212	123	138	68	5,718	5,718	39,759.8	47,938	309.4	0.0	.	138	68
85+	F	2011	All	All	492	282	252	124	11,572	11,572	88,205.7	104,823	319.7	0.0	.	252	124
85+	M	2011	All	All	245	129	142	70	6,077	6,077	41,977.5	50,875	307.3	0.0	.	142	70
85+	F	2012	All	All	513	304	266	132	11,915	11,915	92,146.9	108,812	329.9	0.0	.	266	132
85+	M	2012	All	All	250	142	118	59	6,470	6,470	44,506.2	53,531	319.1	0.0	.	118	59
85+	F	2013	All	All	541	316	266	129	13,054	13,054	94,665.2	112,244	333.8	0.0	.	266	129
85+	M	2013	All	All	255	137	146	71	7,174	7,174	46,385.4	56,033	295.4	0.0	.	146	71
85+	F	2014	All	All	551	316	262	129	13,035	13,035	95,101.8	112,218	332.3	0.0	.	262	129
85+	M	2014	All	All	301	151	168	83	6,941	6,941	47,123.6	56,612	320.4	0.0	.	168	83
85+	F	2015	All	All	545	320	298	147	13,020	13,020	93,053.1	112,023	343.9	0.0	.	298	147
85+	M	2015	All	All	269	152	112	55	6,975	6,975	47,352.2	58,199	321.0	0.0	.	112	55
85+	F	2016	All	All	184	121	10	5	8,917	8,917	78,839.2	91,760	153.5	0.0	.	10	5
85+	M	2016	All	All	107	68	14	7	5,941	5,941	45,639.0	54,402	149.0	0.0	.	14	7
85+	F	2017	All	All	105	64	4	2	5,014	5,014	42,709.9	87,291	149.8	0.0	.	4	2
85+	M	2017	All	All	66	39	2	1	3,495	3,495	25,048.6	51,795	155.7	0.0	.	2	1
All	All	All	American Indian/Alaskan Native	All	180	99	110	54	3,708	3,708	690,475.0	111,257	14.3	0.0	.	110	54
All	All	All	Asian	All	2,666	1,544	2,386	1,165	42,422	42,422	11,575,696.2	1,664,660	13.3	0.0	.	2,386	1,165
All	All	All	Black/African American	All	3,211	2,103	2,916	1,437	95,701	95,701	12,651,408.7	1,960,046	16.6	0.0	.	2,916	1,437
All	All	All	Native Hawaiian/Pacific Islander	All	327	199	276	134	6,333	6,333	1,523,448.1	212,529	13.1	0.0	.	276	134
All	All	All	Unknown	All	6,579	3,442	4,520	2,209	135,667	135,667	38,430,210.1	11,188,504	9.0	0.0	.	4,520	2,209
All	All	All	White	All	23,077	14,353	16,866	8,243	648,858	648,858	63,974,175.1	9,575,649	22.4	0.0	.	16,866	8,243
All	All	All	All	No	12,594	8,323	10,282	5,047	421,413	421,413	37,119,593.6	6,021,371	22.4	0.0	.	10,282	5,047
All	All	All	All	Unknown	21,130	12,066	14,876	7,273	467,681	467,681	79,109,298.1	16,744,922	15.3	0.0	.	14,876	7,273
All	All	All	All	Yes	2,316	1,351	1,916	922	43,595	43,595	12,616,521.6	1,946,352	10.7	0.0	.	1,916	922

Table 4a. Number of Stroke-Related Cause of Death (COD) Codes, Main and Secondary Analysis, by Source

Source	Aggregate
N: National Death Index	1,016
S: State Death Files	24,752
L: Other, locally defined	1,118
T: Tumor Data	188
Total	27,074

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record					Rate of Stroke-Related Death per 100,000 Member-Years				
All	All	All	All	All	85,487	49,198	40,611	13,242	932,689	932,689	128,845,413	24,712,645	38.2	0.1	37.6	40,611	13,242
<45	All	All	All	All	2,874	1,769	2,403	775	52,215	52,215	76,679,294.5	18,007,648	2.3	0.0	.	2,403	775
45-54	All	All	All	All	4,977	2,857	4,140	1,340	63,852	63,852	19,081,661.5	5,278,030	15.0	0.0	.	4,140	1,340
55-64	All	All	All	All	10,290	5,641	6,354	2,066	118,234	118,234	16,401,336.4	4,174,214	34.4	0.0	.	6,354	2,066
65-74	All	All	All	All	16,313	9,154	8,061	2,619	172,116	172,116	9,534,659.2	2,279,937	96.0	0.1	.	8,061	2,619
75-84	All	All	All	All	26,229	14,984	11,649	3,816	250,827	250,827	5,204,085.1	1,169,299	287.9	0.1	.	11,649	3,816
85+	All	All	All	All	24,804	14,793	8,004	2,626	275,445	275,445	1,942,192.3	512,834	761.7	0.1	.	8,004	2,626
All	F	All	All	All	47,450	28,093	22,908	7,455	498,316	498,316	68,304,045.5	12,757,524	41.1	0.1	.	22,908	7,455
All	M	All	All	All	38,037	21,105	17,703	5,787	434,373	434,373	60,541,367.8	11,955,121	34.9	0.0	.	17,703	5,787
<45	F	All	All	All	1,423	873	1,308	417	22,299	22,299	39,900,261.3	9,189,785	2.2	0.0	.	1,308	417
<45	M	All	All	All	1,451	896	1,095	358	29,916	29,916	36,779,033.2	8,817,863	2.4	0.0	.	1,095	358
45-54	F	All	All	All	2,467	1,408	2,115	684	27,965	27,965	10,080,566.2	2,748,205	14.0	0.1	.	2,115	684
45-54	M	All	All	All	2,510	1,449	2,025	656	35,887	35,887	9,001,095.3	2,529,825	16.1	0.0	.	2,025	656
55-64	F	All	All	All	4,685	2,640	3,231	1,041	52,024	52,024	8,737,613.7	2,192,926	30.2	0.1	.	3,231	1,041
55-64	M	All	All	All	5,605	3,001	3,123	1,025	66,210	66,210	7,663,722.8	1,981,288	39.2	0.0	.	3,123	1,025
65-74	F	All	All	All	7,719	4,530	4,092	1,319	81,222	81,222	5,201,021.6	1,223,070	87.1	0.1	.	4,092	1,319
65-74	M	All	All	All	8,594	4,624	3,969	1,300	90,894	90,894	4,333,637.6	1,056,867	106.7	0.1	.	3,969	1,300
75-84	F	All	All	All	14,518	8,534	6,753	2,219	133,478	133,478	3,064,193.8	676,985	278.5	0.1	.	6,753	2,219
75-84	M	All	All	All	11,711	6,450	4,896	1,597	117,349	117,349	2,139,891.2	492,314	301.4	0.1	.	4,896	1,597
85+	F	All	All	All	16,638	10,108	5,409	1,775	181,328	181,328	1,319,430.3	337,545	766.1	0.1	.	5,409	1,775
85+	M	All	All	All	8,166	4,685	2,595	851	94,117	94,117	622,762.0	175,289	752.3	0.0	.	2,595	851
All	All	2000	All	All	1,471	1,070	1,212	389	24,352	24,352	3,265,482.3	7,070,831	32.8	0.0	35.7	1,212	389
All	All	2001	All	All	3,087	2,297	2,607	844	50,915	50,915	6,483,143.4	7,612,138	35.4	0.0	38.6	2,607	844
All	All	2002	All	All	3,167	2,346	2,493	805	53,216	53,216	6,546,876.2	7,743,773	35.8	0.0	37.9	2,493	805
All	All	2003	All	All	3,480	2,485	2,634	843	54,738	54,738	6,525,866.5	7,738,499	38.1	0.0	39.3	2,634	843
All	All	2004	All	All	3,652	2,520	2,751	896	55,151	55,151	6,820,683.9	8,226,065	36.9	0.0	37.2	2,751	896
All	All	2005	All	All	5,074	3,321	2,913	948	57,905	57,905	7,307,556.6	8,830,118	45.4	0.1	45.8	2,913	948
All	All	2006	All	All	5,174	3,220	2,643	862	56,139	56,139	7,528,293.6	8,844,496	42.8	0.1	43.1	2,643	862
All	All	2007	All	All	5,182	3,190	2,616	856	54,242	54,242	7,549,243.6	8,824,893	42.3	0.1	43.2	2,616	856
All	All	2008	All	All	5,385	3,118	2,478	816	54,737	54,737	7,649,117.1	8,987,418	40.8	0.1	41.2	2,478	816
All	All	2009	All	All	5,379	3,048	2,505	822	54,251	54,251	7,747,500.9	9,091,018	39.3	0.1	39.4	2,505	822
All	All	2010	All	All	6,048	3,203	2,550	833	54,485	54,485	7,918,332.3	9,256,124	40.5	0.1	40.3	2,550	833
All	All	2011	All	All	6,059	3,126	2,730	888	56,226	56,226	8,120,707.1	9,454,662	38.5	0.1	37.6	2,730	888
All	All	2012	All	All	6,618	3,364	2,649	871	58,704	58,704	8,263,418.9	9,527,543	40.7	0.1	38.5	2,649	871
All	All	2013	All	All	6,930	3,493	2,511	819	61,579	61,579	8,278,595.6	9,579,268	42.2	0.1	39.1	2,511	819
All	All	2014	All	All	8,029	3,886	2,721	894	62,002	62,002	8,473,785.2	9,889,824	45.9	0.1	42.5	2,721	894
All	All	2015	All	All	6,934	3,506	2,427	799	62,118	62,118	8,784,751.0	10,235,706	39.9	0.1	38.0	2,427	799

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with		Records of	Members with	Members		Eligible Member-Years	Eligible Members	Rate of	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Death and a Corresponding Cause of Death (COD) Record	Record of Death and Corresponding COD Record	Records of Death in Death Table	with Record of Death in Death Table			Stroke-Related Death per 100,000 Member-Years				
All	All	2016	All	All	2,503	1,330	153	51	39,919	39,919	7,602,857.6	8,929,174	17.5	0.0	15.9	153	51
All	All	2017	All	All	1,315	675	18	6	22,010	22,010	3,979,201.6	8,349,076	17.0	0.0	14.6	18	6
<45	All	2000	All	All	47	34	72	24	1,750	1,750	2,073,595.0	4,606,003	1.6	0.0	.	72	24
<45	All	2001	All	All	142	96	222	68	3,569	3,569	4,103,577.0	5,038,056	2.3	0.0	.	222	68
<45	All	2002	All	All	140	102	195	64	3,796	3,796	4,094,231.7	5,074,975	2.5	0.0	.	195	64
<45	All	2003	All	All	212	131	204	64	3,560	3,560	4,016,995.2	5,002,994	3.3	0.0	.	204	64
<45	All	2004	All	All	206	131	204	65	3,624	3,624	4,135,389.1	5,217,502	3.2	0.0	.	204	65
<45	All	2005	All	All	197	130	207	63	3,596	3,596	4,388,056.8	5,561,833	3.0	0.0	.	207	63
<45	All	2006	All	All	168	113	138	46	3,308	3,308	4,526,700.5	5,580,565	2.5	0.0	.	138	46
<45	All	2007	All	All	155	108	132	44	3,319	3,319	4,528,797.5	5,565,264	2.4	0.0	.	132	44
<45	All	2008	All	All	194	113	132	42	3,041	3,041	4,565,132.0	5,648,968	2.5	0.0	.	132	42
<45	All	2009	All	All	155	95	132	43	3,037	3,037	4,607,923.1	5,668,124	2.1	0.0	.	132	43
<45	All	2010	All	All	180	118	144	46	2,944	2,944	4,704,546.2	5,747,234	2.5	0.0	.	144	46
<45	All	2011	All	All	207	117	150	50	2,870	2,870	4,804,235.3	5,839,797	2.4	0.0	.	150	50
<45	All	2012	All	All	183	99	141	47	3,014	3,014	4,862,280.7	5,848,313	2.0	0.0	.	141	47
<45	All	2013	All	All	156	89	96	32	2,906	2,906	4,823,751.9	5,825,977	1.8	0.0	.	96	32
<45	All	2014	All	All	199	115	120	39	2,997	2,997	4,944,989.1	5,982,480	2.3	0.0	.	120	39
<45	All	2015	All	All	196	112	108	36	3,188	3,188	5,171,892.8	6,236,216	2.2	0.0	.	108	36
<45	All	2016	All	All	93	57	6	2	1,151	1,151	4,174,907.5	5,154,482	1.4	0.0	.	6	2
<45	All	2017	All	All	44	9	0	0	545	545	2,152,293.1	4,691,375	0.4	0.0	.	0	0
45-54	All	2000	All	All	123	82	129	41	1,777	1,777	483,633.7	1,064,035	17.0	0.0	.	129	41
45-54	All	2001	All	All	212	142	270	85	3,834	3,834	961,689.9	1,171,847	14.8	0.0	.	270	85
45-54	All	2002	All	All	235	173	279	92	3,987	3,987	973,206.0	1,202,357	17.8	0.0	.	279	92
45-54	All	2003	All	All	265	178	291	93	4,211	4,211	980,351.5	1,210,341	18.2	0.0	.	291	93
45-54	All	2004	All	All	274	171	327	104	4,195	4,195	1,039,798.8	1,314,546	16.4	0.0	.	327	104
45-54	All	2005	All	All	333	202	351	109	4,457	4,457	1,127,941.0	1,432,126	17.9	0.0	.	351	109
45-54	All	2006	All	All	323	190	297	97	4,268	4,268	1,159,523.2	1,424,199	16.4	0.0	.	297	97
45-54	All	2007	All	All	355	210	303	100	4,022	4,022	1,169,380.6	1,428,804	18.0	0.1	.	303	100
45-54	All	2008	All	All	381	200	288	96	4,085	4,085	1,179,371.2	1,448,806	17.0	0.0	.	288	96
45-54	All	2009	All	All	330	176	279	89	4,082	4,082	1,182,473.8	1,459,501	14.9	0.0	.	279	89
45-54	All	2010	All	All	283	154	207	69	3,782	3,782	1,188,540.8	1,466,377	13.0	0.0	.	207	69
45-54	All	2011	All	All	367	192	300	96	3,923	3,923	1,194,682.6	1,466,473	16.1	0.0	.	300	96
45-54	All	2012	All	All	426	209	276	92	3,949	3,949	1,187,165.6	1,444,840	17.6	0.1	.	276	92
45-54	All	2013	All	All	303	164	195	63	3,694	3,694	1,168,902.9	1,432,936	14.0	0.0	.	195	63
45-54	All	2014	All	All	299	174	183	61	3,762	3,762	1,173,795.0	1,481,403	14.8	0.0	.	183	61
45-54	All	2015	All	All	281	152	162	52	3,682	3,682	1,198,540.1	1,507,312	12.7	0.0	.	162	52
45-54	All	2016	All	All	139	66	3	1	1,451	1,451	1,131,209.2	1,418,332	5.8	0.0	.	3	1

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table							
45-54	All	2017	All	All	48	22	0	0	691	691	581,455.6	1,271,358	3.8	0.0	.	0	0
55-64	All	2000	All	All	220	138	177	55	3,186	3,186	325,118.1	707,840	42.4	0.0	.	177	55
55-64	All	2001	All	All	373	258	387	127	6,277	6,277	652,600.4	787,087	39.5	0.0	.	387	127
55-64	All	2002	All	All	421	281	423	133	6,727	6,727	694,788.8	839,368	40.4	0.0	.	423	133
55-64	All	2003	All	All	373	253	363	116	6,851	6,851	728,067.1	877,072	34.7	0.0	.	363	116
55-64	All	2004	All	All	471	313	426	140	7,045	7,045	796,195.3	983,173	39.3	0.0	.	426	140
55-64	All	2005	All	All	544	336	399	133	7,336	7,336	883,694.4	1,091,422	38.0	0.0	.	399	133
55-64	All	2006	All	All	652	373	429	136	7,231	7,231	923,240.3	1,103,706	40.4	0.1	.	429	136
55-64	All	2007	All	All	671	380	447	147	7,285	7,285	956,296.2	1,135,772	39.7	0.1	.	447	147
55-64	All	2008	All	All	672	371	390	129	7,267	7,267	988,210.8	1,177,212	37.5	0.1	.	390	129
55-64	All	2009	All	All	661	353	399	129	7,262	7,262	1,019,775.3	1,222,057	34.6	0.0	.	399	129
55-64	All	2010	All	All	696	370	438	143	7,127	7,127	1,056,953.1	1,263,951	35.0	0.1	.	438	143
55-64	All	2011	All	All	779	397	420	136	7,450	7,450	1,098,628.9	1,312,606	36.1	0.1	.	420	136
55-64	All	2012	All	All	830	410	417	134	7,716	7,716	1,113,653.9	1,328,956	36.8	0.1	.	417	134
55-64	All	2013	All	All	757	351	387	129	7,715	7,715	1,120,405.4	1,339,327	31.3	0.0	.	387	129
55-64	All	2014	All	All	895	446	441	144	7,843	7,843	1,141,228.3	1,405,010	39.1	0.1	.	441	144
55-64	All	2015	All	All	828	402	378	124	7,954	7,954	1,174,447.8	1,438,785	34.2	0.1	.	378	124
55-64	All	2016	All	All	286	134	30	10	3,897	3,897	1,132,078.5	1,386,830	11.8	0.0	.	30	10
55-64	All	2017	All	All	161	75	3	1	2,065	2,065	595,954.0	1,277,855	12.6	0.0	.	3	1
65-74	All	2000	All	All	346	245	303	96	4,852	4,852	216,573.8	468,090	113.1	0.1	.	303	96
65-74	All	2001	All	All	694	497	576	186	10,259	10,259	429,720.2	502,987	115.7	0.0	.	576	186
65-74	All	2002	All	All	665	498	510	163	10,325	10,325	436,159.6	512,859	114.2	0.0	.	510	163
65-74	All	2003	All	All	730	515	585	185	10,502	10,502	440,649.3	519,381	116.9	0.0	.	585	185
65-74	All	2004	All	All	658	456	495	162	10,377	10,377	463,511.5	555,529	98.4	0.0	.	495	162
65-74	All	2005	All	All	967	618	624	202	10,722	10,722	491,175.9	588,338	125.8	0.1	.	624	202
65-74	All	2006	All	All	931	572	456	148	10,004	10,004	494,011.3	583,378	115.8	0.1	.	456	148
65-74	All	2007	All	All	894	544	489	159	9,501	9,501	483,614.2	568,431	112.5	0.1	.	489	159
65-74	All	2008	All	All	890	514	453	150	9,760	9,760	499,153.6	582,044	103.0	0.1	.	453	150
65-74	All	2009	All	All	1,008	556	492	163	9,381	9,381	515,122.2	605,785	107.9	0.1	.	492	163
65-74	All	2010	All	All	1,122	570	507	164	9,337	9,337	537,059.1	630,043	106.1	0.1	.	507	164
65-74	All	2011	All	All	1,081	510	498	161	9,777	9,777	576,117.9	685,809	88.5	0.1	.	498	161
65-74	All	2012	All	All	1,243	628	531	174	10,653	10,653	635,841.5	750,509	98.8	0.1	.	531	174
65-74	All	2013	All	All	1,324	634	516	167	11,288	11,288	687,697.0	808,601	92.2	0.1	.	516	167
65-74	All	2014	All	All	1,590	729	525	172	11,773	11,773	730,735.4	852,779	99.8	0.1	.	525	172
65-74	All	2015	All	All	1,345	643	468	156	11,728	11,728	758,654.9	891,153	84.8	0.1	.	468	156
65-74	All	2016	All	All	547	279	30	10	7,677	7,677	730,208.9	846,716	38.2	0.0	.	30	10
65-74	All	2017	All	All	278	146	3	1	4,200	4,200	408,652.9	821,161	35.7	0.0	.	3	1

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table			Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
75-84	All	2000	All	All	453	340	363	117	6,782	6,782	127,497.8	275,461	266.7	0.1	.	363	117
75-84	All	2001	All	All	991	761	774	253	14,229	14,229	256,665.1	300,582	296.5	0.1	.	774	253
75-84	All	2002	All	All	1,009	758	705	229	14,903	14,903	266,035.4	312,660	284.9	0.1	.	705	229
75-84	All	2003	All	All	1,149	821	801	260	15,498	15,498	273,442.1	320,077	300.2	0.1	.	801	260
75-84	All	2004	All	All	1,167	812	819	270	15,558	15,558	291,988.8	349,358	278.1	0.1	.	819	270
75-84	All	2005	All	All	1,652	1,076	846	281	16,262	16,262	313,036.7	368,763	343.7	0.1	.	846	281
75-84	All	2006	All	All	1,651	1,031	816	267	15,905	15,905	316,291.7	368,889	326.0	0.1	.	816	267
75-84	All	2007	All	All	1,620	993	735	240	14,747	14,747	301,238.9	349,161	329.6	0.1	.	735	240
75-84	All	2008	All	All	1,662	971	720	236	14,762	14,762	302,581.8	347,822	320.9	0.1	.	720	236
75-84	All	2009	All	All	1,598	914	663	218	14,351	14,351	302,819.8	350,862	301.8	0.1	.	663	218
75-84	All	2010	All	All	1,843	930	675	221	14,431	14,431	306,871.0	355,629	303.1	0.1	.	675	221
75-84	All	2011	All	All	1,777	921	771	251	14,557	14,557	316,725.5	367,894	290.8	0.1	.	771	251
75-84	All	2012	All	All	1,896	915	708	233	14,987	14,987	327,708.0	379,145	279.2	0.1	.	708	233
75-84	All	2013	All	All	2,085	1,025	699	228	15,748	15,748	336,684.8	390,869	304.4	0.1	.	699	228
75-84	All	2014	All	All	2,554	1,145	807	266	15,651	15,651	340,735.2	394,433	336.0	0.1	.	807	266
75-84	All	2015	All	All	1,985	978	696	229	15,571	15,571	340,745.2	401,715	287.0	0.1	.	696	229
75-84	All	2016	All	All	743	384	48	16	10,885	10,885	309,935.8	357,738	123.9	0.0	.	48	16
75-84	All	2017	All	All	394	209	3	1	6,000	6,000	173,081.4	348,067	120.8	0.0	.	3	1
85+	All	2000	All	All	282	231	168	56	6,005	6,005	39,010.4	86,336	592.1	0.0	.	168	56
85+	All	2001	All	All	675	543	378	125	12,747	12,747	78,791.1	97,085	689.2	0.0	.	378	125
85+	All	2002	All	All	697	534	381	124	13,478	13,478	82,342.5	102,000	648.5	0.0	.	381	124
85+	All	2003	All	All	751	587	390	125	14,116	14,116	86,260.2	106,249	680.5	0.0	.	390	125
85+	All	2004	All	All	876	637	480	155	14,352	14,352	93,708.6	118,478	679.8	0.0	.	480	155
85+	All	2005	All	All	1,381	959	486	160	15,532	15,532	103,482.7	127,240	926.7	0.1	.	486	160
85+	All	2006	All	All	1,449	941	507	168	15,423	15,423	108,298.5	132,439	868.9	0.1	.	507	168
85+	All	2007	All	All	1,487	955	510	166	15,368	15,368	109,694.6	132,358	870.6	0.1	.	510	166
85+	All	2008	All	All	1,586	949	495	163	15,822	15,822	114,460.6	137,187	829.1	0.1	.	495	163
85+	All	2009	All	All	1,627	954	540	180	16,138	16,138	119,188.3	142,586	800.4	0.1	.	540	180
85+	All	2010	All	All	1,924	1,061	579	190	16,864	16,864	124,200.8	148,272	854.3	0.1	.	579	190
85+	All	2011	All	All	1,848	989	591	194	17,649	17,649	130,183.2	155,698	759.7	0.1	.	591	194
85+	All	2012	All	All	2,040	1,103	576	191	18,385	18,385	136,653.1	162,343	807.2	0.1	.	576	191
85+	All	2013	All	All	2,305	1,230	618	200	20,228	20,228	141,050.5	168,277	872.0	0.1	.	618	200
85+	All	2014	All	All	2,492	1,277	645	212	19,976	19,976	142,225.4	168,830	897.9	0.1	.	645	212
85+	All	2015	All	All	2,299	1,219	615	202	19,995	19,995	140,405.3	170,222	868.2	0.1	.	615	202
85+	All	2016	All	All	695	410	36	12	14,858	14,858	124,478.2	146,162	329.4	0.0	.	36	12
85+	All	2017	All	All	390	214	9	3	8,509	8,509	67,758.5	139,086	315.8	0.0	.	9	3
All	F	2000	All	All	783	593	663	212	12,841	12,841	1,733,630.5	3,745,400	34.2	0.0	.	663	212

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
All	M	2000	All	All	688	477	549	177	11,511	11,511	1,531,851.8	3,325,431	31.1	0.0	.	549	177
All	F	2001	All	All	1,759	1,317	1,512	489	27,103	27,103	3,442,534.7	4,021,150	38.3	0.0	.	1,512	489
All	M	2001	All	All	1,328	980	1,095	355	23,812	23,812	3,040,608.7	3,590,988	32.2	0.0	.	1,095	355
All	F	2002	All	All	1,799	1,344	1,422	459	28,230	28,230	3,476,371.4	4,090,749	38.7	0.0	.	1,422	459
All	M	2002	All	All	1,368	1,002	1,071	346	24,986	24,986	3,070,504.7	3,653,024	32.6	0.0	.	1,071	346
All	F	2003	All	All	2,001	1,465	1,527	487	29,225	29,225	3,467,145.7	4,093,147	42.3	0.1	.	1,527	487
All	M	2003	All	All	1,479	1,020	1,107	356	25,513	25,513	3,058,720.8	3,645,352	33.3	0.0	.	1,107	356
All	F	2004	All	All	2,035	1,450	1,566	507	29,531	29,531	3,626,632.2	4,358,320	40.0	0.0	.	1,566	507
All	M	2004	All	All	1,617	1,070	1,185	389	25,620	25,620	3,194,051.6	3,867,745	33.5	0.0	.	1,185	389
All	F	2005	All	All	2,976	1,967	1,668	541	30,932	30,932	3,885,176.6	4,676,687	50.6	0.1	.	1,668	541
All	M	2005	All	All	2,098	1,354	1,245	407	26,973	26,973	3,422,380.0	4,153,431	39.6	0.1	.	1,245	407
All	F	2006	All	All	2,938	1,857	1,512	490	30,048	30,048	3,995,822.7	4,680,320	46.5	0.1	.	1,512	490
All	M	2006	All	All	2,236	1,363	1,131	372	26,091	26,091	3,532,470.9	4,164,176	38.6	0.1	.	1,131	372
All	F	2007	All	All	2,894	1,818	1,437	472	29,070	29,070	4,001,162.6	4,664,665	45.4	0.1	.	1,437	472
All	M	2007	All	All	2,288	1,372	1,179	384	25,172	25,172	3,548,081.0	4,160,228	38.7	0.1	.	1,179	384
All	F	2008	All	All	3,018	1,799	1,371	452	29,411	29,411	4,052,641.0	4,748,304	44.4	0.1	.	1,371	452
All	M	2008	All	All	2,367	1,319	1,107	364	25,326	25,326	3,596,476.0	4,239,114	36.7	0.1	.	1,107	364
All	F	2009	All	All	2,949	1,710	1,317	430	29,304	29,304	4,117,085.7	4,811,557	41.5	0.1	.	1,317	430
All	M	2009	All	All	2,430	1,338	1,188	392	24,947	24,947	3,630,415.1	4,279,461	36.9	0.1	.	1,188	392
All	F	2010	All	All	3,343	1,838	1,437	470	29,352	29,352	4,218,318.0	4,910,750	43.6	0.1	.	1,437	470
All	M	2010	All	All	2,705	1,365	1,113	363	25,133	25,133	3,700,014.3	4,345,374	36.9	0.1	.	1,113	363
All	F	2011	All	All	3,319	1,809	1,551	506	30,306	30,306	4,323,540.1	5,015,224	41.8	0.1	.	1,551	506
All	M	2011	All	All	2,740	1,317	1,179	382	25,920	25,920	3,797,166.9	4,439,438	34.7	0.1	.	1,179	382
All	F	2012	All	All	3,733	1,943	1,515	494	31,507	31,507	4,394,360.3	5,051,941	44.2	0.1	.	1,515	494
All	M	2012	All	All	2,885	1,421	1,134	377	27,197	27,197	3,869,058.6	4,475,602	36.7	0.1	.	1,134	377
All	F	2013	All	All	3,752	1,966	1,479	481	32,905	32,905	4,395,345.2	5,074,204	44.7	0.1	.	1,479	481
All	M	2013	All	All	3,178	1,527	1,032	338	28,674	28,674	3,883,250.5	4,505,064	39.3	0.1	.	1,032	338
All	F	2014	All	All	4,404	2,192	1,497	491	33,361	33,361	4,496,695.3	5,222,592	48.7	0.1	.	1,497	491
All	M	2014	All	All	3,625	1,694	1,224	403	28,641	28,641	3,977,089.9	4,667,232	42.6	0.1	.	1,224	403
All	F	2015	All	All	3,813	1,975	1,347	445	33,484	33,484	4,659,689.2	5,397,787	42.4	0.1	.	1,347	445
All	M	2015	All	All	3,121	1,531	1,080	354	28,634	28,634	4,125,061.8	4,837,919	37.1	0.1	.	1,080	354
All	F	2016	All	All	1,289	711	78	26	20,473	20,473	3,946,765.6	4,611,176	18.0	0.0	.	78	26
All	M	2016	All	All	1,214	619	75	25	19,446	19,446	3,656,092.1	4,317,998	16.9	0.0	.	75	25
All	F	2017	All	All	645	339	9	3	11,233	11,233	2,071,128.6	4,325,660	16.4	0.0	.	9	3
All	M	2017	All	All	670	336	9	3	10,777	10,777	1,908,073.0	4,023,416	17.6	0.0	.	9	3
<45	F	2000	All	All	24	17	33	11	727	727	1,080,761.2	2,396,652	1.6	0.0	.	33	11
<45	M	2000	All	All	23	17	39	13	1,023	1,023	992,833.9	2,209,351	1.7	0.0	.	39	13

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table							
<45	F	2001	All	All	82	52	126	38	1,466	1,466	2,137,799.7	2,614,368	2.4	0.0	.	126	38
<45	M	2001	All	All	60	44	96	30	2,103	2,103	1,965,777.2	2,423,688	2.2	0.0	.	96	30
<45	F	2002	All	All	71	48	102	34	1,521	1,521	2,130,649.6	2,632,375	2.3	0.0	.	102	34
<45	M	2002	All	All	69	54	93	30	2,275	2,275	1,963,582.1	2,442,600	2.8	0.0	.	93	30
<45	F	2003	All	All	124	74	126	40	1,542	1,542	2,091,318.3	2,599,056	3.5	0.0	.	126	40
<45	M	2003	All	All	88	57	78	24	2,018	2,018	1,925,676.8	2,403,938	3.0	0.0	.	78	24
<45	F	2004	All	All	113	72	135	42	1,563	1,563	2,155,321.2	2,715,255	3.3	0.0	.	135	42
<45	M	2004	All	All	93	59	69	23	2,061	2,061	1,980,067.9	2,502,247	3.0	0.0	.	69	23
<45	F	2005	All	All	121	74	129	38	1,491	1,491	2,287,699.5	2,893,988	3.2	0.0	.	129	38
<45	M	2005	All	All	76	56	78	25	2,105	2,105	2,100,357.3	2,667,845	2.7	0.0	.	78	25
<45	F	2006	All	All	80	49	78	26	1,426	1,426	2,358,068.9	2,903,840	2.1	0.0	.	78	26
<45	M	2006	All	All	88	64	60	20	1,882	1,882	2,168,631.5	2,676,725	3.0	0.0	.	60	20
<45	F	2007	All	All	65	48	54	18	1,406	1,406	2,355,718.1	2,894,205	2.0	0.0	.	54	18
<45	M	2007	All	All	90	60	78	26	1,913	1,913	2,173,079.4	2,671,059	2.8	0.0	.	78	26
<45	F	2008	All	All	93	60	57	17	1,282	1,282	2,374,122.5	2,937,544	2.5	0.0	.	57	17
<45	M	2008	All	All	101	53	75	25	1,759	1,759	2,191,009.5	2,711,424	2.4	0.0	.	75	25
<45	F	2009	All	All	76	44	60	19	1,357	1,357	2,405,712.3	2,954,419	1.8	0.0	.	60	19
<45	M	2009	All	All	79	51	72	24	1,680	1,680	2,202,210.8	2,713,705	2.3	0.0	.	72	24
<45	F	2010	All	All	83	53	78	25	1,307	1,307	2,464,819.5	3,005,342	2.2	0.0	.	78	25
<45	M	2010	All	All	97	65	66	21	1,637	1,637	2,239,726.7	2,741,892	2.9	0.0	.	66	21
<45	F	2011	All	All	101	55	69	23	1,264	1,264	2,514,107.1	3,050,258	2.2	0.0	.	69	23
<45	M	2011	All	All	106	62	81	27	1,606	1,606	2,290,128.1	2,789,539	2.7	0.0	.	81	27
<45	F	2012	All	All	100	54	72	24	1,340	1,340	2,539,938.2	3,052,212	2.1	0.0	.	72	24
<45	M	2012	All	All	83	45	69	23	1,674	1,674	2,322,342.5	2,796,101	1.9	0.0	.	69	23
<45	F	2013	All	All	83	46	54	18	1,245	1,245	2,514,879.4	3,037,621	1.8	0.0	.	54	18
<45	M	2013	All	All	73	43	42	14	1,661	1,661	2,308,872.5	2,788,356	1.9	0.0	.	42	14
<45	F	2014	All	All	75	49	69	22	1,299	1,299	2,579,600.7	3,108,031	1.9	0.0	.	69	22
<45	M	2014	All	All	124	66	51	17	1,698	1,698	2,365,388.4	2,874,449	2.8	0.0	.	51	17
<45	F	2015	All	All	96	55	66	22	1,400	1,400	2,700,928.9	3,239,095	2.0	0.0	.	66	22
<45	M	2015	All	All	100	57	42	14	1,788	1,788	2,470,963.9	2,997,121	2.3	0.0	.	42	14
<45	F	2016	All	All	32	20	0	0	442	442	2,116,349.3	2,602,784	0.9	0.0	.	0	0
<45	M	2016	All	All	61	37	6	2	709	709	2,058,558.2	2,551,698	1.8	0.1	.	6	2
<45	F	2017	All	All	4	3	0	0	221	221	1,092,466.8	2,375,185	0.3	0.0	.	0	0
<45	M	2017	All	All	40	6	0	0	324	324	1,059,826.3	2,316,190	0.6	0.0	.	0	0
45-54	F	2000	All	All	67	43	60	20	750	750	255,394.0	561,436	16.8	0.1	.	60	20
45-54	M	2000	All	All	56	39	69	21	1,027	1,027	228,239.7	502,599	17.1	0.0	.	69	21
45-54	F	2001	All	All	112	75	141	44	1,639	1,639	507,735.0	616,631	14.8	0.0	.	141	44

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with				Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Record of Death and Corresponding COD Record									
45-54	M	2001	All	All	100	67	129	41	2,195	2,195	453,954.9	555,216	14.8	0.0	.	129	41
45-54	F	2002	All	All	126	89	132	44	1,688	1,688	513,978.7	632,245	17.3	0.1	.	132	44
45-54	M	2002	All	All	109	84	147	48	2,299	2,299	459,227.3	570,112	18.3	0.0	.	147	48
45-54	F	2003	All	All	128	88	153	48	1,735	1,735	517,359.2	636,311	17.0	0.1	.	153	48
45-54	M	2003	All	All	137	90	138	45	2,476	2,476	462,992.2	574,030	19.4	0.0	.	138	45
45-54	F	2004	All	All	127	82	174	54	1,848	1,848	549,661.4	693,435	14.9	0.0	.	174	54
45-54	M	2004	All	All	147	89	153	50	2,347	2,347	490,137.5	621,111	18.2	0.0	.	153	50
45-54	F	2005	All	All	165	99	171	54	1,938	1,938	597,781.7	756,978	16.6	0.1	.	171	54
45-54	M	2005	All	All	168	103	180	55	2,519	2,519	530,159.3	675,148	19.4	0.0	.	180	55
45-54	F	2006	All	All	184	94	174	57	1,867	1,867	613,986.6	751,743	15.3	0.1	.	174	57
45-54	M	2006	All	All	139	96	123	40	2,401	2,401	545,536.6	672,456	17.6	0.0	.	123	40
45-54	F	2007	All	All	163	98	141	47	1,695	1,695	618,852.1	753,503	15.8	0.1	.	141	47
45-54	M	2007	All	All	192	112	162	53	2,327	2,327	550,528.4	675,301	20.3	0.0	.	162	53
45-54	F	2008	All	All	155	94	150	50	1,784	1,784	623,417.7	763,509	15.1	0.1	.	150	50
45-54	M	2008	All	All	226	106	138	46	2,301	2,301	555,953.5	685,297	19.1	0.0	.	138	46
45-54	F	2009	All	All	175	87	168	53	1,811	1,811	626,816.9	770,086	13.9	0.0	.	168	53
45-54	M	2009	All	All	155	89	111	36	2,271	2,271	555,656.9	689,415	16.0	0.0	.	111	36
45-54	F	2010	All	All	172	85	111	37	1,669	1,669	631,377.8	775,255	13.5	0.1	.	111	37
45-54	M	2010	All	All	111	69	96	32	2,113	2,113	557,163.0	691,122	12.4	0.0	.	96	32
45-54	F	2011	All	All	159	93	144	47	1,770	1,770	634,619.5	775,898	14.7	0.1	.	144	47
45-54	M	2011	All	All	208	99	156	49	2,153	2,153	560,063.0	690,575	17.7	0.0	.	156	49
45-54	F	2012	All	All	212	102	129	43	1,746	1,746	629,675.6	763,771	16.2	0.1	.	129	43
45-54	M	2012	All	All	214	107	147	49	2,203	2,203	557,490.0	681,069	19.2	0.0	.	147	49
45-54	F	2013	All	All	153	79	102	32	1,684	1,684	618,144.8	755,276	12.8	0.0	.	102	32
45-54	M	2013	All	All	150	85	93	31	2,010	2,010	550,758.2	677,660	15.4	0.0	.	93	31
45-54	F	2014	All	All	116	73	84	28	1,717	1,717	619,250.4	778,289	11.8	0.0	.	84	28
45-54	M	2014	All	All	183	101	99	33	2,045	2,045	554,544.6	703,114	18.2	0.0	.	99	33
45-54	F	2015	All	All	159	82	81	26	1,710	1,710	631,364.9	790,242	13.0	0.0	.	81	26
45-54	M	2015	All	All	122	70	81	26	1,972	1,972	567,175.2	717,070	12.3	0.0	.	81	26
45-54	F	2016	All	All	74	36	0	0	617	617	587,967.0	734,596	6.1	0.1	.	0	0
45-54	M	2016	All	All	65	30	3	1	834	834	543,242.2	683,736	5.5	0.0	.	3	1
45-54	F	2017	All	All	20	9	0	0	297	297	303,182.9	659,718	3.0	0.0	.	0	0
45-54	M	2017	All	All	28	13	0	0	394	394	278,272.7	611,640	4.7	0.0	.	0	0
55-64	F	2000	All	All	86	56	93	27	1,347	1,347	172,724.7	375,655	32.4	0.0	.	93	27
55-64	M	2000	All	All	134	82	84	28	1,839	1,839	152,393.4	332,185	53.8	0.0	.	84	28
55-64	F	2001	All	All	185	126	216	70	2,752	2,752	347,548.2	417,640	36.3	0.0	.	216	70
55-64	M	2001	All	All	188	132	171	57	3,525	3,525	305,052.2	369,447	43.3	0.0	.	171	57

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table			Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
55-64	F	2002	All	All	179	121	216	68	2,884	2,884	370,221.7	445,468	32.7	0.0	.	216	68
55-64	M	2002	All	All	242	160	207	65	3,843	3,843	324,567.1	393,900	49.3	0.0	.	207	65
55-64	F	2003	All	All	194	128	213	67	3,040	3,040	388,213.0	465,729	33.0	0.0	.	213	67
55-64	M	2003	All	All	179	125	150	49	3,811	3,811	339,854.1	411,343	36.8	0.0	.	150	49
55-64	F	2004	All	All	199	143	183	60	3,060	3,060	423,803.1	521,473	33.7	0.0	.	183	60
55-64	M	2004	All	All	272	170	243	80	3,985	3,985	372,392.2	461,700	45.7	0.0	.	243	80
55-64	F	2005	All	All	268	166	195	65	3,215	3,215	469,383.5	578,893	35.4	0.1	.	195	65
55-64	M	2005	All	All	276	170	204	68	4,121	4,121	414,310.9	512,529	41.0	0.0	.	204	68
55-64	F	2006	All	All	300	170	195	61	3,241	3,241	488,581.2	583,363	34.8	0.1	.	195	61
55-64	M	2006	All	All	352	203	234	75	3,990	3,990	434,659.1	520,343	46.7	0.1	.	234	75
55-64	F	2007	All	All	326	179	219	72	3,198	3,198	506,395.4	599,950	35.3	0.1	.	219	72
55-64	M	2007	All	All	345	201	228	75	4,087	4,087	449,900.8	535,822	44.7	0.0	.	228	75
55-64	F	2008	All	All	348	194	216	71	3,206	3,206	523,700.6	621,959	37.0	0.1	.	216	71
55-64	M	2008	All	All	324	177	174	58	4,061	4,061	464,510.2	555,253	38.1	0.0	.	174	58
55-64	F	2009	All	All	272	161	171	55	3,183	3,183	543,085.3	647,933	29.6	0.1	.	171	55
55-64	M	2009	All	All	389	192	228	74	4,079	4,079	476,689.9	574,124	40.3	0.0	.	228	74
55-64	F	2010	All	All	314	173	228	73	3,077	3,077	565,237.1	672,592	30.6	0.1	.	228	73
55-64	M	2010	All	All	382	197	210	70	4,050	4,050	491,716.0	591,359	40.1	0.0	.	210	70
55-64	F	2011	All	All	368	200	240	76	3,341	3,341	588,609.2	700,600	34.0	0.1	.	240	76
55-64	M	2011	All	All	411	197	180	60	4,109	4,109	510,019.7	612,006	38.6	0.0	.	180	60
55-64	F	2012	All	All	387	184	222	69	3,416	3,416	596,928.9	709,994	30.8	0.1	.	222	69
55-64	M	2012	All	All	443	226	195	65	4,300	4,300	516,725.0	618,962	43.7	0.1	.	195	65
55-64	F	2013	All	All	344	160	207	69	3,457	3,457	599,356.4	714,068	26.7	0.0	.	207	69
55-64	M	2013	All	All	413	191	180	60	4,258	4,258	521,048.9	625,259	36.7	0.0	.	180	60
55-64	F	2014	All	All	394	209	219	73	3,534	3,534	609,383.5	747,915	34.3	0.1	.	219	73
55-64	M	2014	All	All	501	237	222	71	4,309	4,309	531,844.8	657,095	44.6	0.1	.	222	71
55-64	F	2015	All	All	335	181	183	60	3,447	3,447	625,932.1	764,065	28.9	0.1	.	183	60
55-64	M	2015	All	All	493	221	195	64	4,507	4,507	548,515.7	674,720	40.3	0.0	.	195	64
55-64	F	2016	All	All	111	54	15	5	1,718	1,718	600,903.4	734,067	9.0	0.0	.	15	5
55-64	M	2016	All	All	175	80	15	5	2,179	2,179	531,175.0	652,763	15.1	0.0	.	15	5
55-64	F	2017	All	All	75	35	0	0	908	908	317,606.2	677,842	11.0	0.0	.	0	0
55-64	M	2017	All	All	86	40	3	1	1,157	1,157	278,347.8	600,013	14.4	0.0	.	3	1
65-74	F	2000	All	All	167	124	156	49	2,245	2,245	119,437.5	257,853	103.8	0.1	.	156	49
65-74	M	2000	All	All	179	121	147	47	2,607	2,607	97,136.4	210,237	124.6	0.0	.	147	47
65-74	F	2001	All	All	373	264	330	105	4,840	4,840	237,284.4	276,911	111.3	0.1	.	330	105
65-74	M	2001	All	All	321	233	246	81	5,419	5,419	192,435.8	226,076	121.1	0.0	.	246	81
65-74	F	2002	All	All	333	245	240	76	4,838	4,838	241,336.9	282,340	101.5	0.1	.	240	76

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category		Sex	Year	Race	Hispanic	Members with Stroke-Related Death		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
(Years)	Stroke-Related Death Codes					Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table	Rate of Stroke-Related Death per 100,000 Member-Years			Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes	
65-74	M	2002	All	All	332	253	270	87	5,487	5,487	194,822.7	230,519	129.9	0.0	.	270	87	
65-74	F	2003	All	All	358	263	315	98	4,964	4,964	243,355.4	285,560	108.1	0.1	.	315	98	
65-74	M	2003	All	All	372	252	270	87	5,538	5,538	197,293.9	233,821	127.7	0.0	.	270	87	
65-74	F	2004	All	All	322	230	261	85	4,945	4,945	255,556.2	304,936	90.0	0.0	.	261	85	
65-74	M	2004	All	All	336	226	234	77	5,432	5,432	207,955.3	250,593	108.7	0.0	.	234	77	
65-74	F	2005	All	All	474	313	315	101	5,045	5,045	269,889.5	321,815	116.0	0.1	.	315	101	
65-74	M	2005	All	All	493	305	309	101	5,677	5,677	221,286.4	266,523	137.8	0.1	.	309	101	
65-74	F	2006	All	All	446	292	237	75	4,707	4,707	270,691.8	318,259	107.9	0.1	.	237	75	
65-74	M	2006	All	All	485	280	219	73	5,297	5,297	223,319.4	265,119	125.4	0.1	.	219	73	
65-74	F	2007	All	All	453	284	252	83	4,515	4,515	264,387.5	309,472	107.4	0.1	.	252	83	
65-74	M	2007	All	All	441	260	237	76	4,986	4,986	219,226.7	258,959	118.6	0.1	.	237	76	
65-74	F	2008	All	All	394	249	189	63	4,609	4,609	272,685.5	316,469	91.3	0.1	.	189	63	
65-74	M	2008	All	All	496	265	264	87	5,151	5,151	226,468.1	265,575	117.0	0.1	.	264	87	
65-74	F	2009	All	All	475	271	225	74	4,541	4,541	280,834.9	328,997	96.5	0.1	.	225	74	
65-74	M	2009	All	All	533	285	267	89	4,840	4,840	234,287.3	276,788	121.6	0.1	.	267	89	
65-74	F	2010	All	All	536	281	276	89	4,449	4,449	292,102.2	341,460	96.2	0.1	.	276	89	
65-74	M	2010	All	All	586	289	231	75	4,888	4,888	244,956.9	288,583	118.0	0.1	.	231	75	
65-74	F	2011	All	All	501	244	261	84	4,560	4,560	312,986.6	371,236	78.0	0.1	.	261	84	
65-74	M	2011	All	All	580	266	237	77	5,217	5,217	263,131.3	314,573	101.1	0.1	.	237	77	
65-74	F	2012	All	All	579	317	285	93	5,099	5,099	345,312.2	406,514	91.8	0.1	.	285	93	
65-74	M	2012	All	All	664	311	246	81	5,554	5,554	290,529.3	343,995	107.0	0.1	.	246	81	
65-74	F	2013	All	All	566	299	261	83	5,258	5,258	373,758.5	438,193	80.0	0.1	.	261	83	
65-74	M	2013	All	All	758	335	255	84	6,030	6,030	313,938.5	370,408	106.7	0.1	.	255	84	
65-74	F	2014	All	All	730	349	240	78	5,575	5,575	397,355.3	462,563	87.8	0.1	.	240	78	
65-74	M	2014	All	All	860	380	285	94	6,198	6,198	333,380.1	390,216	114.0	0.1	.	285	94	
65-74	F	2015	All	All	639	306	228	76	5,630	5,630	413,028.1	483,243	74.1	0.1	.	228	76	
65-74	M	2015	All	All	706	337	240	80	6,098	6,098	345,626.8	407,910	97.5	0.1	.	240	80	
65-74	F	2016	All	All	248	133	18	6	3,540	3,540	391,317.0	452,219	34.0	0.0	.	18	6	
65-74	M	2016	All	All	299	146	12	4	4,137	4,137	338,891.8	394,497	43.1	0.0	.	12	4	
65-74	F	2017	All	All	125	66	3	1	1,862	1,862	219,702.2	439,966	30.0	0.0	.	3	1	
65-74	M	2017	All	All	153	80	0	0	2,338	2,338	188,950.7	381,195	42.3	0.0	.	0	0	
75-84	F	2000	All	All	250	191	207	67	3,634	3,634	77,579.9	167,411	246.2	0.1	.	207	67	
75-84	M	2000	All	All	203	149	156	50	3,148	3,148	49,918.0	108,050	298.5	0.0	.	156	50	
75-84	F	2001	All	All	563	438	408	135	7,694	7,694	156,294.1	182,441	280.2	0.1	.	408	135	
75-84	M	2001	All	All	428	323	366	118	6,535	6,535	100,371.0	118,141	321.8	0.0	.	366	118	
75-84	F	2002	All	All	584	453	435	140	8,115	8,115	161,884.8	189,741	279.8	0.1	.	435	140	
75-84	M	2002	All	All	425	305	270	89	6,788	6,788	104,150.6	122,919	292.8	0.0	.	270	89	

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table			Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Deaths among all	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
75-84	F	2003	All	All	667	491	459	150	8,341	8,341	166,153.3	193,858	295.5	0.1	.	459	150
75-84	M	2003	All	All	482	330	342	110	7,157	7,157	107,288.8	126,219	307.6	0.0	.	342	110
75-84	F	2004	All	All	691	493	516	170	8,440	8,440	176,729.6	210,446	279.0	0.1	.	516	170
75-84	M	2004	All	All	476	319	303	100	7,118	7,118	115,259.2	138,912	276.8	0.0	.	303	100
75-84	F	2005	All	All	988	638	519	172	8,744	8,744	188,428.5	220,979	338.6	0.1	.	519	172
75-84	M	2005	All	All	664	438	327	109	7,518	7,518	124,608.2	147,784	351.5	0.1	.	327	109
75-84	F	2006	All	All	940	596	477	155	8,560	8,560	189,562.8	220,244	314.4	0.1	.	477	155
75-84	M	2006	All	All	711	435	339	112	7,345	7,345	126,728.9	148,645	343.3	0.1	.	339	112
75-84	F	2007	All	All	919	566	441	145	7,956	7,956	180,178.9	208,173	314.1	0.1	.	441	145
75-84	M	2007	All	All	701	427	294	95	6,791	6,791	121,060.0	140,988	352.7	0.1	.	294	95
75-84	F	2008	All	All	906	546	390	129	7,943	7,943	180,099.2	206,458	303.2	0.1	.	390	129
75-84	M	2008	All	All	756	425	330	107	6,819	6,819	122,482.6	141,364	347.0	0.1	.	330	107
75-84	F	2009	All	All	897	516	342	112	7,702	7,702	179,114.6	207,212	288.1	0.1	.	342	112
75-84	M	2009	All	All	701	398	321	106	6,649	6,649	123,705.2	143,650	321.7	0.1	.	321	106
75-84	F	2010	All	All	968	530	372	124	7,704	7,704	180,268.3	208,540	294.0	0.1	.	372	124
75-84	M	2010	All	All	875	400	303	97	6,727	6,727	126,602.7	147,089	315.9	0.1	.	303	97
75-84	F	2011	All	All	946	528	459	152	7,799	7,799	184,951.2	214,480	285.5	0.1	.	459	152
75-84	M	2011	All	All	831	393	312	99	6,758	6,758	131,774.3	153,414	298.2	0.1	.	312	99
75-84	F	2012	All	All	1,056	522	408	133	7,991	7,991	190,305.5	219,855	274.3	0.1	.	408	133
75-84	M	2012	All	All	840	393	300	100	6,996	6,996	137,402.5	159,290	286.0	0.1	.	300	100
75-84	F	2013	All	All	1,121	569	456	150	8,207	8,207	194,490.2	225,326	292.6	0.1	.	456	150
75-84	M	2013	All	All	964	456	243	78	7,541	7,541	142,194.6	165,543	320.7	0.1	.	243	78
75-84	F	2014	All	All	1,419	643	492	161	8,201	8,201	195,966.9	226,464	328.1	0.1	.	492	161
75-84	M	2014	All	All	1,135	502	315	105	7,450	7,450	144,768.3	167,969	346.8	0.1	.	315	105
75-84	F	2015	All	All	1,030	513	342	114	8,277	8,277	195,356.5	229,547	262.6	0.1	.	342	114
75-84	M	2015	All	All	955	465	354	115	7,294	7,294	145,388.7	172,168	319.8	0.1	.	354	115
75-84	F	2016	All	All	384	203	30	10	5,239	5,239	171,372.4	197,280	118.5	0.0	.	30	10
75-84	M	2016	All	All	359	181	18	6	5,646	5,646	138,563.3	160,458	130.6	0.0	.	18	6
75-84	F	2017	All	All	189	98	0	0	2,931	2,931	95,456.9	191,898	102.7	0.0	.	0	0
75-84	M	2017	All	All	205	111	3	1	3,069	3,069	77,624.4	156,169	143.0	0.0	.	3	1
85+	F	2000	All	All	189	162	114	38	4,138	4,138	27,713.0	61,107	584.6	0.0	.	114	38
85+	M	2000	All	All	93	69	54	18	1,867	1,867	11,297.4	25,229	610.8	0.0	.	54	18
85+	F	2001	All	All	444	362	291	97	8,712	8,712	55,835.2	68,364	648.3	0.0	.	291	97
85+	M	2001	All	All	231	181	87	28	4,035	4,035	22,955.9	28,721	788.5	0.0	.	87	28
85+	F	2002	All	All	506	388	297	97	9,184	9,184	58,256.6	71,578	666.0	0.0	.	297	97
85+	M	2002	All	All	191	146	84	27	4,294	4,294	24,085.9	30,422	606.2	0.0	.	84	27
85+	F	2003	All	All	530	421	261	84	9,603	9,603	60,710.0	74,336	693.5	0.0	.	261	84

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Members with Record of Death in Death Table		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Stroke-Related Death Codes	Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Records of Death in Death Table			Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
85+	M	2003	All	All	221	166	129	41	4,513	4,513	25,550.3	31,913	649.7	0.0	.	129	41
85+	F	2004	All	All	583	430	297	96	9,675	9,675	65,522.9	82,223	656.3	0.0	.	297	96
85+	M	2004	All	All	293	207	183	59	4,677	4,677	28,185.7	36,255	734.4	0.0	.	183	59
85+	F	2005	All	All	960	677	339	111	10,499	10,499	71,913.9	87,754	941.4	0.1	.	339	111
85+	M	2005	All	All	421	282	147	49	5,033	5,033	31,568.8	39,486	893.3	0.1	.	147	49
85+	F	2006	All	All	988	656	351	116	10,247	10,247	74,824.2	90,863	876.7	0.1	.	351	116
85+	M	2006	All	All	461	285	156	52	5,176	5,176	33,474.3	41,576	851.4	0.1	.	156	52
85+	F	2007	All	All	968	643	330	107	10,300	10,300	75,529.8	90,702	851.3	0.1	.	330	107
85+	M	2007	All	All	519	312	180	59	5,068	5,068	34,164.8	41,656	913.2	0.1	.	180	59
85+	F	2008	All	All	1,122	656	369	122	10,587	10,587	78,527.5	93,667	835.4	0.1	.	369	122
85+	M	2008	All	All	464	293	126	41	5,235	5,235	35,933.1	43,520	815.4	0.1	.	126	41
85+	F	2009	All	All	1,054	631	351	117	10,710	10,710	81,434.6	96,935	774.9	0.1	.	351	117
85+	M	2009	All	All	573	323	189	63	5,428	5,428	37,753.6	45,651	855.5	0.1	.	189	63
85+	F	2010	All	All	1,270	716	372	122	11,146	11,146	84,441.0	100,334	847.9	0.1	.	372	122
85+	M	2010	All	All	654	345	207	68	5,718	5,718	39,759.8	47,938	867.7	0.1	.	207	68
85+	F	2011	All	All	1,244	689	378	124	11,572	11,572	88,205.7	104,823	781.1	0.1	.	378	124
85+	M	2011	All	All	604	300	213	70	6,077	6,077	41,977.5	50,875	714.7	0.0	.	213	70
85+	F	2012	All	All	1,399	764	399	132	11,915	11,915	92,146.9	108,812	829.1	0.1	.	399	132
85+	M	2012	All	All	641	339	177	59	6,470	6,470	44,506.2	53,531	761.7	0.1	.	177	59
85+	F	2013	All	All	1,485	813	399	129	13,054	13,054	94,665.2	112,244	858.8	0.1	.	399	129
85+	M	2013	All	All	820	417	219	71	7,174	7,174	46,385.4	56,033	899.0	0.1	.	219	71
85+	F	2014	All	All	1,670	869	393	129	13,035	13,035	95,101.8	112,218	913.8	0.1	.	393	129
85+	M	2014	All	All	822	408	252	83	6,941	6,941	47,123.6	56,612	865.8	0.1	.	252	83
85+	F	2015	All	All	1,554	838	447	147	13,020	13,020	93,053.1	112,023	900.6	0.1	.	447	147
85+	M	2015	All	All	745	381	168	55	6,975	6,975	47,352.2	58,199	804.6	0.1	.	168	55
85+	F	2016	All	All	440	265	15	5	8,917	8,917	78,839.2	91,760	336.1	0.0	.	15	5
85+	M	2016	All	All	255	145	21	7	5,941	5,941	45,639.0	54,402	317.7	0.0	.	21	7
85+	F	2017	All	All	232	128	6	2	5,014	5,014	42,709.9	87,291	299.7	0.0	.	6	2
85+	M	2017	All	All	158	86	3	1	3,495	3,495	25,048.6	51,795	343.3	0.0	.	3	1
All	All	All	American Indian/Alaskan Native	All	414	219	165	54	3,708	3,708	690,475.0	111,257	31.7	0.1	.	165	54
All	All	All	Asian	All	5,764	3,168	3,579	1,165	42,422	42,422	11,575,696.2	1,664,660	27.4	0.1	.	3,579	1,165
All	All	All	Black/African American	All	8,736	5,272	4,374	1,437	95,701	95,701	12,651,408.7	1,960,046	41.7	0.1	.	4,374	1,437
All	All	All	Native Hawaiian/Pacific Islander	All	740	441	414	134	6,333	6,333	1,523,448.1	212,529	28.9	0.1	.	414	134
All	All	All	Unknown	All	15,770	7,855	6,780	2,209	135,667	135,667	38,430,210.1	11,188,504	20.4	0.1	.	6,780	2,209
All	All	All	White	All	54,063	32,243	25,299	8,243	648,858	648,858	63,974,175.1	9,575,649	50.4	0.0	.	25,299	8,243

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Primary Analysis

Age Category			Race	Hispanic	Members with Stroke-Related Death Codes		Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
(Years)	Sex	Year			Stroke-Related Death Codes	Stroke-Related Death Codes	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Member-Years	Eligible Members	Member-Years	Rate of Stroke-Related Death among all Deaths	Stroke-Related COD Codes	Members with Stroke-Related COD Codes		
All	All	All	All	No	30,334	19,519	15,423	5,047	421,413	421,413	37,119,593.6	6,021,371	52.6	0.0	.	15,423	5,047
All	All	All	All	Unknown	50,012	26,826	22,314	7,273	467,681	467,681	79,109,298.1	16,744,922	33.9	0.1	.	22,314	7,273
All	All	All	All	Yes	5,141	2,853	2,874	922	43,595	43,595	12,616,521.6	1,946,352	22.6	0.1	.	2,874	922

Table 5a. Number of Stroke-Related Cause of Death (COD) Codes, Sensitivity and Primary Analysis, by Source

Source	Aggregate
N: National Death Index	1,524
S: State Death Files	37,128
L: Other, locally defined	1,677
T: Tumor Data	282
Total	40,611

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Stroke-Related	Members with Stroke-Related	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Death Codes	Death Codes	Corresponding Cause of Death (COD) Record	Record of Death and Corresponding COD Record	Death Table	Death Table	Member-Years	Members	per 100,000 Member-Years	among all Deaths	Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
All	All	All	All	All	37,553	22,860	40,611	13,242	932,689	932,689	128,845,413	24,712,645	17.7	0.0	17.4	40,611	13,242
<45	All	All	All	All	1,656	1,063	2,403	775	52,215	52,215	76,679,294.5	18,007,648	1.4	0.0	.	2,403	775
45-54	All	All	All	All	2,783	1,641	4,140	1,340	63,852	63,852	19,081,661.5	5,278,030	8.6	0.0	.	4,140	1,340
55-64	All	All	All	All	5,007	2,865	6,354	2,066	118,234	118,234	16,401,336.4	4,174,214	17.5	0.0	.	6,354	2,066
65-74	All	All	All	All	7,167	4,266	8,061	2,619	172,116	172,116	9,534,659.2	2,279,937	44.7	0.0	.	8,061	2,619
75-84	All	All	All	All	11,112	6,762	11,649	3,816	250,827	250,827	5,204,085.1	1,169,299	129.9	0.0	.	11,649	3,816
85+	All	All	All	All	9,828	6,263	8,004	2,626	275,445	275,445	1,942,192.3	512,834	322.5	0.0	.	8,004	2,626
All	F	All	All	All	21,071	13,108	22,908	7,455	498,316	498,316	68,304,045.5	12,757,524	19.2	0.0	.	22,908	7,455
All	M	All	All	All	16,482	9,752	17,703	5,787	434,373	434,373	60,541,367.8	11,955,121	16.1	0.0	.	17,703	5,787
<45	F	All	All	All	836	526	1,308	417	22,299	22,299	39,900,261.3	9,189,785	1.3	0.0	.	1,308	417
<45	M	All	All	All	820	537	1,095	358	29,916	29,916	36,779,033.2	8,817,863	1.5	0.0	.	1,095	358
45-54	F	All	All	All	1,426	834	2,115	684	27,965	27,965	10,080,566.2	2,748,205	8.3	0.0	.	2,115	684
45-54	M	All	All	All	1,357	807	2,025	656	35,887	35,887	9,001,095.3	2,529,825	9.0	0.0	.	2,025	656
55-64	F	All	All	All	2,286	1,334	3,231	1,041	52,024	52,024	8,737,613.7	2,192,926	15.3	0.0	.	3,231	1,041
55-64	M	All	All	All	2,721	1,531	3,123	1,025	66,210	66,210	7,663,722.8	1,981,288	20.0	0.0	.	3,123	1,025
65-74	F	All	All	All	3,517	2,138	4,092	1,319	81,222	81,222	5,201,021.6	1,223,070	41.1	0.0	.	4,092	1,319
65-74	M	All	All	All	3,650	2,128	3,969	1,300	90,894	90,894	4,333,637.6	1,056,867	49.1	0.0	.	3,969	1,300
75-84	F	All	All	All	6,345	3,962	6,753	2,219	133,478	133,478	3,064,193.8	676,985	129.3	0.0	.	6,753	2,219
75-84	M	All	All	All	4,767	2,800	4,896	1,597	117,349	117,349	2,139,891.2	492,314	130.8	0.0	.	4,896	1,597
85+	F	All	All	All	6,661	4,314	5,409	1,775	181,328	181,328	1,319,430.3	337,545	327.0	0.0	.	5,409	1,775
85+	M	All	All	All	3,167	1,949	2,595	851	94,117	94,117	622,762.0	175,289	313.0	0.0	.	2,595	851
All	All	2000	All	All	690	517	1,212	389	24,352	24,352	3,265,482.3	7,070,831	15.8	0.0	17.0	1,212	389
All	All	2001	All	All	1,529	1,131	2,607	844	50,915	50,915	6,483,143.4	7,612,138	17.4	0.0	18.8	2,607	844
All	All	2002	All	All	1,538	1,144	2,493	805	53,216	53,216	6,546,876.2	7,743,773	17.5	0.0	18.3	2,493	805
All	All	2003	All	All	1,653	1,209	2,634	843	54,738	54,738	6,525,866.5	7,738,499	18.5	0.0	18.9	2,634	843
All	All	2004	All	All	1,722	1,203	2,751	896	55,151	55,151	6,820,683.9	8,226,065	17.6	0.0	17.6	2,751	896
All	All	2005	All	All	2,307	1,557	2,913	948	57,905	57,905	7,307,556.6	8,830,118	21.3	0.0	21.2	2,913	948
All	All	2006	All	All	2,304	1,470	2,643	862	56,139	56,139	7,528,293.6	8,844,496	19.5	0.0	19.6	2,643	862
All	All	2007	All	All	2,351	1,482	2,616	856	54,242	54,242	7,549,243.6	8,824,893	19.6	0.0	19.9	2,616	856
All	All	2008	All	All	2,416	1,456	2,478	816	54,737	54,737	7,649,117.1	8,987,418	19.0	0.0	19.1	2,478	816
All	All	2009	All	All	2,274	1,351	2,505	822	54,251	54,251	7,747,500.9	9,091,018	17.4	0.0	17.4	2,505	822
All	All	2010	All	All	2,502	1,422	2,550	833	54,485	54,485	7,918,332.3	9,256,124	18.0	0.0	17.8	2,550	833
All	All	2011	All	All	2,682	1,487	2,730	888	56,226	56,226	8,120,707.1	9,454,662	18.3	0.0	17.8	2,730	888
All	All	2012	All	All	2,789	1,567	2,649	871	58,704	58,704	8,263,418.9	9,527,543	19.0	0.0	17.9	2,649	871
All	All	2013	All	All	2,961	1,550	2,511	819	61,579	61,579	8,278,595.6	9,579,268	18.7	0.0	17.3	2,511	819
All	All	2014	All	All	3,195	1,728	2,721	894	62,002	62,002	8,473,785.2	9,889,824	20.4	0.0	18.8	2,721	894
All	All	2015	All	All	2,830	1,544	2,427	799	62,118	62,118	8,784,751.0	10,235,706	17.6	0.0	16.8	2,427	799
All	All	2016	All	All	1,202	692	153	51	39,919	39,919	7,602,857.6	8,929,174	9.1	0.0	8.3	153	51

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Members	Records of Death	Members with	Records of	Members	Rate of Stroke-	Rate of Stroke-	Age	Stroke-	Members			
					Stroke-Related Death Codes	with Stroke-Related Death Codes	and a Corresponding Cause of Death (COD) Record								Record of Death and Corresponding COD Record	Death in Death Table	with Record of Death in Death Table
All	All	2017	All	All	608	350	18	6	22,010	22,010	3,979,201.6	8,349,076	8.8	0.0	7.5	18	6
<45	All	2000	All	All	26	20	72	24	1,750	1,750	2,073,595.0	4,606,003	1.0	0.0	.	72	24
<45	All	2001	All	All	82	61	222	68	3,569	3,569	4,103,577.0	5,038,056	1.5	0.0	.	222	68
<45	All	2002	All	All	86	65	195	64	3,796	3,796	4,094,231.7	5,074,975	1.6	0.0	.	195	64
<45	All	2003	All	All	143	92	204	64	3,560	3,560	4,016,995.2	5,002,994	2.3	0.0	.	204	64
<45	All	2004	All	All	124	82	204	65	3,624	3,624	4,135,389.1	5,217,502	2.0	0.0	.	204	65
<45	All	2005	All	All	113	81	207	63	3,596	3,596	4,388,056.8	5,561,833	1.8	0.0	.	207	63
<45	All	2006	All	All	108	73	138	46	3,308	3,308	4,526,700.5	5,580,565	1.6	0.0	.	138	46
<45	All	2007	All	All	92	66	132	44	3,319	3,319	4,528,797.5	5,565,264	1.5	0.0	.	132	44
<45	All	2008	All	All	114	71	132	42	3,041	3,041	4,565,132.0	5,648,968	1.6	0.0	.	132	42
<45	All	2009	All	All	89	50	132	43	3,037	3,037	4,607,923.1	5,668,124	1.1	0.0	.	132	43
<45	All	2010	All	All	100	62	144	46	2,944	2,944	4,704,546.2	5,747,234	1.3	0.0	.	144	46
<45	All	2011	All	All	133	74	150	50	2,870	2,870	4,804,235.3	5,839,797	1.5	0.0	.	150	50
<45	All	2012	All	All	105	60	141	47	3,014	3,014	4,862,280.7	5,848,313	1.2	0.0	.	141	47
<45	All	2013	All	All	89	48	96	32	2,906	2,906	4,823,751.9	5,825,977	1.0	0.0	.	96	32
<45	All	2014	All	All	103	64	120	39	2,997	2,997	4,944,989.1	5,982,480	1.3	0.0	.	120	39
<45	All	2015	All	All	87	54	108	36	3,188	3,188	5,171,892.8	6,236,216	1.0	0.0	.	108	36
<45	All	2016	All	All	51	35	6	2	1,151	1,151	4,174,907.5	5,154,482	0.8	0.0	.	6	2
<45	All	2017	All	All	11	5	0	0	545	545	2,152,293.1	4,691,375	0.2	0.0	.	0	0
45-54	All	2000	All	All	69	50	129	41	1,777	1,777	483,633.7	1,064,035	10.3	0.0	.	129	41
45-54	All	2001	All	All	122	83	270	85	3,834	3,834	961,689.9	1,171,847	8.6	0.0	.	270	85
45-54	All	2002	All	All	156	112	279	92	3,987	3,987	973,206.0	1,202,357	11.5	0.0	.	279	92
45-54	All	2003	All	All	159	110	291	93	4,211	4,211	980,351.5	1,210,341	11.2	0.0	.	291	93
45-54	All	2004	All	All	173	102	327	104	4,195	4,195	1,039,798.8	1,314,546	9.8	0.0	.	327	104
45-54	All	2005	All	All	220	140	351	109	4,457	4,457	1,127,941.0	1,432,126	12.4	0.0	.	351	109
45-54	All	2006	All	All	194	108	297	97	4,268	4,268	1,159,523.2	1,424,199	9.3	0.0	.	297	97
45-54	All	2007	All	All	230	129	303	100	4,022	4,022	1,169,380.6	1,428,804	11.0	0.0	.	303	100
45-54	All	2008	All	All	224	121	288	96	4,085	4,085	1,179,371.2	1,448,806	10.3	0.0	.	288	96
45-54	All	2009	All	All	179	96	279	89	4,082	4,082	1,182,473.8	1,459,501	8.1	0.0	.	279	89
45-54	All	2010	All	All	148	84	207	69	3,782	3,782	1,188,540.8	1,466,377	7.1	0.0	.	207	69
45-54	All	2011	All	All	192	106	300	96	3,923	3,923	1,194,682.6	1,466,473	8.9	0.0	.	300	96
45-54	All	2012	All	All	198	112	276	92	3,949	3,949	1,187,165.6	1,444,840	9.4	0.0	.	276	92
45-54	All	2013	All	All	156	85	195	63	3,694	3,694	1,168,902.9	1,432,936	7.3	0.0	.	195	63
45-54	All	2014	All	All	136	78	183	61	3,762	3,762	1,173,795.0	1,481,403	6.6	0.0	.	183	61
45-54	All	2015	All	All	129	75	162	52	3,682	3,682	1,198,540.1	1,507,312	6.3	0.0	.	162	52
45-54	All	2016	All	All	84	41	3	1	1,451	1,451	1,131,209.2	1,418,332	3.6	0.0	.	3	1
45-54	All	2017	All	All	14	9	0	0	691	691	581,455.6	1,271,358	1.5	0.0	.	0	0
55-64	All	2000	All	All	118	74	177	55	3,186	3,186	325,118.1	707,840	22.8	0.0	.	177	55

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					206	144	387	127	6,277	6,277	652,600.4	787,087	22.1	0.0	.	387	127
55-64	All	2001	All	All	206	144	387	127	6,277	6,277	652,600.4	787,087	22.1	0.0	.	387	127
55-64	All	2002	All	All	245	161	423	133	6,727	6,727	694,788.8	839,368	23.2	0.0	.	423	133
55-64	All	2003	All	All	180	128	363	116	6,851	6,851	728,067.1	877,072	17.6	0.0	.	363	116
55-64	All	2004	All	All	251	175	426	140	7,045	7,045	796,195.3	983,173	22.0	0.0	.	426	140
55-64	All	2005	All	All	291	180	399	133	7,336	7,336	883,694.4	1,091,422	20.4	0.0	.	399	133
55-64	All	2006	All	All	307	178	429	136	7,231	7,231	923,240.3	1,103,706	19.3	0.0	.	429	136
55-64	All	2007	All	All	355	190	447	147	7,285	7,285	956,296.2	1,135,772	19.9	0.0	.	447	147
55-64	All	2008	All	All	321	198	390	129	7,267	7,267	988,210.8	1,177,212	20.0	0.0	.	390	129
55-64	All	2009	All	All	321	174	399	129	7,262	7,262	1,019,775.3	1,222,057	17.1	0.0	.	399	129
55-64	All	2010	All	All	315	170	438	143	7,127	7,127	1,056,953.1	1,263,951	16.1	0.0	.	438	143
55-64	All	2011	All	All	369	204	420	136	7,450	7,450	1,098,628.9	1,312,606	18.6	0.0	.	420	136
55-64	All	2012	All	All	362	196	417	134	7,716	7,716	1,113,653.9	1,328,956	17.6	0.0	.	417	134
55-64	All	2013	All	All	345	170	387	129	7,715	7,715	1,120,405.4	1,339,327	15.2	0.0	.	387	129
55-64	All	2014	All	All	425	226	441	144	7,843	7,843	1,141,228.3	1,405,010	19.8	0.0	.	441	144
55-64	All	2015	All	All	372	179	378	124	7,954	7,954	1,174,447.8	1,438,785	15.2	0.0	.	378	124
55-64	All	2016	All	All	140	74	30	10	3,897	3,897	1,132,078.5	1,386,830	6.5	0.0	.	30	10
55-64	All	2017	All	All	84	44	3	1	2,065	2,065	595,954.0	1,277,855	7.4	0.0	.	3	1
65-74	All	2000	All	All	157	122	303	96	4,852	4,852	216,573.8	468,090	56.3	0.0	.	303	96
65-74	All	2001	All	All	332	241	576	186	10,259	10,259	429,720.2	502,987	56.1	0.0	.	576	186
65-74	All	2002	All	All	308	224	510	163	10,325	10,325	436,159.6	512,859	51.4	0.0	.	510	163
65-74	All	2003	All	All	366	263	585	185	10,502	10,502	440,649.3	519,381	59.7	0.0	.	585	185
65-74	All	2004	All	All	318	214	495	162	10,377	10,377	463,511.5	555,529	46.2	0.0	.	495	162
65-74	All	2005	All	All	401	273	624	202	10,722	10,722	491,175.9	588,338	55.6	0.0	.	624	202
65-74	All	2006	All	All	395	250	456	148	10,004	10,004	494,011.3	583,378	50.6	0.0	.	456	148
65-74	All	2007	All	All	413	264	489	159	9,501	9,501	483,614.2	568,431	54.6	0.0	.	489	159
65-74	All	2008	All	All	427	245	453	150	9,760	9,760	499,153.6	582,044	49.1	0.0	.	453	150
65-74	All	2009	All	All	416	250	492	163	9,381	9,381	515,122.2	605,785	48.5	0.0	.	492	163
65-74	All	2010	All	All	499	268	507	164	9,337	9,337	537,059.1	630,043	49.9	0.0	.	507	164
65-74	All	2011	All	All	447	242	498	161	9,777	9,777	576,117.9	685,809	42.0	0.0	.	498	161
65-74	All	2012	All	All	551	304	531	174	10,653	10,653	635,841.5	750,509	47.8	0.0	.	531	174
65-74	All	2013	All	All	605	291	516	167	11,288	11,288	687,697.0	808,601	42.3	0.0	.	516	167
65-74	All	2014	All	All	637	323	525	172	11,773	11,773	730,735.4	852,779	44.2	0.0	.	525	172
65-74	All	2015	All	All	527	283	468	156	11,728	11,728	758,654.9	891,153	37.3	0.0	.	468	156
65-74	All	2016	All	All	245	139	30	10	7,677	7,677	730,208.9	846,716	19.0	0.0	.	30	10
65-74	All	2017	All	All	123	70	3	1	4,200	4,200	408,652.9	821,161	17.1	0.0	.	3	1
75-84	All	2000	All	All	211	164	363	117	6,782	6,782	127,497.8	275,461	128.6	0.0	.	363	117
75-84	All	2001	All	All	485	363	774	253	14,229	14,229	256,665.1	300,582	141.4	0.0	.	774	253
75-84	All	2002	All	All	451	354	705	229	14,903	14,903	266,035.4	312,660	133.1	0.0	.	705	229

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
Years	Sex	Year			Death Codes	Death Codes	Cause of Death (COD) Record	Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
75-84	All	2003	All	All	523	385	801	260	15,498	15,498	273,442.1	320,077	140.8	0.0	.	801	260
75-84	All	2004	All	All	515	363	819	270	15,558	15,558	291,988.8	349,358	124.3	0.0	.	819	270
75-84	All	2005	All	All	737	493	846	281	16,262	16,262	313,036.7	368,763	157.5	0.0	.	846	281
75-84	All	2006	All	All	724	473	816	267	15,905	15,905	316,291.7	368,889	149.5	0.0	.	816	267
75-84	All	2007	All	All	637	423	735	240	14,747	14,747	301,238.9	349,161	140.4	0.0	.	735	240
75-84	All	2008	All	All	688	429	720	236	14,762	14,762	302,581.8	347,822	141.8	0.0	.	720	236
75-84	All	2009	All	All	657	400	663	218	14,351	14,351	302,819.8	350,862	132.1	0.0	.	663	218
75-84	All	2010	All	All	736	407	675	221	14,431	14,431	306,871.0	355,629	132.6	0.0	.	675	221
75-84	All	2011	All	All	750	409	771	251	14,557	14,557	316,725.5	367,894	129.1	0.0	.	771	251
75-84	All	2012	All	All	761	409	708	233	14,987	14,987	327,708.0	379,145	124.8	0.0	.	708	233
75-84	All	2013	All	All	880	439	699	228	15,748	15,748	336,684.8	390,869	130.4	0.0	.	699	228
75-84	All	2014	All	All	960	507	807	266	15,651	15,651	340,735.2	394,433	148.8	0.0	.	807	266
75-84	All	2015	All	All	833	435	696	229	15,571	15,571	340,745.2	401,715	127.7	0.0	.	696	229
75-84	All	2016	All	All	373	200	48	16	10,885	10,885	309,935.8	357,738	64.5	0.0	.	48	16
75-84	All	2017	All	All	191	109	3	1	6,000	6,000	173,081.4	348,067	63.0	0.0	.	3	1
85+	All	2000	All	All	109	87	168	56	6,005	6,005	39,010.4	86,336	223.0	0.0	.	168	56
85+	All	2001	All	All	302	239	378	125	12,747	12,747	78,791.1	97,085	303.3	0.0	.	378	125
85+	All	2002	All	All	292	228	381	124	13,478	13,478	82,342.5	102,000	276.9	0.0	.	381	124
85+	All	2003	All	All	282	231	390	125	14,116	14,116	86,260.2	106,249	267.8	0.0	.	390	125
85+	All	2004	All	All	341	267	480	155	14,352	14,352	93,708.6	118,478	284.9	0.0	.	480	155
85+	All	2005	All	All	545	390	486	160	15,532	15,532	103,482.7	127,240	376.9	0.0	.	486	160
85+	All	2006	All	All	576	388	507	168	15,423	15,423	108,298.5	132,439	358.3	0.0	.	507	168
85+	All	2007	All	All	624	410	510	166	15,368	15,368	109,694.6	132,358	373.8	0.0	.	510	166
85+	All	2008	All	All	642	392	495	163	15,822	15,822	114,460.6	137,187	342.5	0.0	.	495	163
85+	All	2009	All	All	612	381	540	180	16,138	16,138	119,188.3	142,586	319.7	0.0	.	540	180
85+	All	2010	All	All	704	431	579	190	16,864	16,864	124,200.8	148,272	347.0	0.0	.	579	190
85+	All	2011	All	All	791	452	591	194	17,649	17,649	130,183.2	155,698	347.2	0.0	.	591	194
85+	All	2012	All	All	812	486	576	191	18,385	18,385	136,653.1	162,343	355.6	0.0	.	576	191
85+	All	2013	All	All	886	517	618	200	20,228	20,228	141,050.5	168,277	366.5	0.0	.	618	200
85+	All	2014	All	All	934	530	645	212	19,976	19,976	142,225.4	168,830	372.6	0.0	.	645	212
85+	All	2015	All	All	882	518	615	202	19,995	19,995	140,405.3	170,222	368.9	0.0	.	615	202
85+	All	2016	All	All	309	203	36	12	14,858	14,858	124,478.2	146,162	163.1	0.0	.	36	12
85+	All	2017	All	All	185	113	9	3	8,509	8,509	67,758.5	139,086	166.8	0.0	.	9	3
All	F	2000	All	All	378	283	663	212	12,841	12,841	1,733,630.5	3,745,400	16.3	0.0	.	663	212
All	M	2000	All	All	312	234	549	177	11,511	11,511	1,531,851.8	3,325,431	15.3	0.0	.	549	177
All	F	2001	All	All	876	650	1,512	489	27,103	27,103	3,442,534.7	4,021,150	18.9	0.0	.	1,512	489
All	M	2001	All	All	653	481	1,095	355	23,812	23,812	3,040,608.7	3,590,988	15.8	0.0	.	1,095	355
All	F	2002	All	All	878	662	1,422	459	28,230	28,230	3,476,371.4	4,090,749	19.0	0.0	.	1,422	459

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
Years	Sex				Death Codes	Death Codes	Record	Record	Death Table	Death Table	Member-Years	Members	Member-Years	Deaths	Death Rate	Codes	Codes
All	M	2002	All	All	660	482	1,071	346	24,986	24,986	3,070,504.7	3,653,024	15.7	0.0	.	1,071	346
All	F	2003	All	All	954	714	1,527	487	29,225	29,225	3,467,145.7	4,093,147	20.6	0.0	.	1,527	487
All	M	2003	All	All	699	495	1,107	356	25,513	25,513	3,058,720.8	3,645,352	16.2	0.0	.	1,107	356
All	F	2004	All	All	974	709	1,566	507	29,531	29,531	3,626,632.2	4,358,320	19.5	0.0	.	1,566	507
All	M	2004	All	All	748	494	1,185	389	25,620	25,620	3,194,051.6	3,867,745	15.5	0.0	.	1,185	389
All	F	2005	All	All	1,342	902	1,668	541	30,932	30,932	3,885,176.6	4,676,687	23.2	0.0	.	1,668	541
All	M	2005	All	All	965	655	1,245	407	26,973	26,973	3,422,380.0	4,153,431	19.1	0.0	.	1,245	407
All	F	2006	All	All	1,349	864	1,512	490	30,048	30,048	3,995,822.7	4,680,320	21.6	0.0	.	1,512	490
All	M	2006	All	All	955	606	1,131	372	26,091	26,091	3,532,470.9	4,164,176	17.2	0.0	.	1,131	372
All	F	2007	All	All	1,340	852	1,437	472	29,070	29,070	4,001,162.6	4,664,665	21.3	0.0	.	1,437	472
All	M	2007	All	All	1,011	630	1,179	384	25,172	25,172	3,548,081.0	4,160,228	17.8	0.0	.	1,179	384
All	F	2008	All	All	1,382	846	1,371	452	29,411	29,411	4,052,641.0	4,748,304	20.9	0.0	.	1,371	452
All	M	2008	All	All	1,034	610	1,107	364	25,326	25,326	3,596,476.0	4,239,114	17.0	0.0	.	1,107	364
All	F	2009	All	All	1,189	716	1,317	430	29,304	29,304	4,117,085.7	4,811,557	17.4	0.0	.	1,317	430
All	M	2009	All	All	1,085	635	1,188	392	24,947	24,947	3,630,415.1	4,279,461	17.5	0.0	.	1,188	392
All	F	2010	All	All	1,387	824	1,437	470	29,352	29,352	4,218,318.0	4,910,750	19.5	0.0	.	1,437	470
All	M	2010	All	All	1,115	598	1,113	363	25,133	25,133	3,700,014.3	4,345,374	16.2	0.0	.	1,113	363
All	F	2011	All	All	1,485	859	1,551	506	30,306	30,306	4,323,540.1	5,015,224	19.9	0.0	.	1,551	506
All	M	2011	All	All	1,197	628	1,179	382	25,920	25,920	3,797,166.9	4,439,438	16.5	0.0	.	1,179	382
All	F	2012	All	All	1,560	893	1,515	494	31,507	31,507	4,394,360.3	5,051,941	20.3	0.0	.	1,515	494
All	M	2012	All	All	1,229	674	1,134	377	27,197	27,197	3,869,058.6	4,475,602	17.4	0.0	.	1,134	377
All	F	2013	All	All	1,682	901	1,479	481	32,905	32,905	4,395,345.2	5,074,204	20.5	0.0	.	1,479	481
All	M	2013	All	All	1,279	649	1,032	338	28,674	28,674	3,883,250.5	4,505,064	16.7	0.0	.	1,032	338
All	F	2014	All	All	1,796	1,000	1,497	491	33,361	33,361	4,496,695.3	5,222,592	22.2	0.0	.	1,497	491
All	M	2014	All	All	1,399	728	1,224	403	28,641	28,641	3,977,089.9	4,667,232	18.3	0.0	.	1,224	403
All	F	2015	All	All	1,560	870	1,347	445	33,484	33,484	4,659,689.2	5,397,787	18.7	0.0	.	1,347	445
All	M	2015	All	All	1,270	674	1,080	354	28,634	28,634	4,125,061.8	4,837,919	16.3	0.0	.	1,080	354
All	F	2016	All	All	627	376	78	26	20,473	20,473	3,946,765.6	4,611,176	9.5	0.0	.	78	26
All	M	2016	All	All	575	316	75	25	19,446	19,446	3,656,092.1	4,317,998	8.6	0.0	.	75	25
All	F	2017	All	All	312	187	9	3	11,233	11,233	2,071,128.6	4,325,660	9.0	0.0	.	9	3
All	M	2017	All	All	296	163	9	3	10,777	10,777	1,908,073.0	4,023,416	8.5	0.0	.	9	3
<45	F	2000	All	All	10	7	33	11	727	727	1,080,761.2	2,396,652	0.6	0.0	.	33	11
<45	M	2000	All	All	16	13	39	13	1,023	1,023	992,833.9	2,209,351	1.3	0.0	.	39	13
<45	F	2001	All	All	44	32	126	38	1,466	1,466	2,137,799.7	2,614,368	1.5	0.0	.	126	38
<45	M	2001	All	All	38	29	96	30	2,103	2,103	1,965,777.2	2,423,688	1.5	0.0	.	96	30
<45	F	2002	All	All	49	34	102	34	1,521	1,521	2,130,649.6	2,632,375	1.6	0.0	.	102	34
<45	M	2002	All	All	37	31	93	30	2,275	2,275	1,963,582.1	2,442,600	1.6	0.0	.	93	30
<45	F	2003	All	All	77	49	126	40	1,542	1,542	2,091,318.3	2,599,056	2.3	0.0	.	126	40

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Stroke-Related	Members with Stroke-Related	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
					Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes	Death Codes
<45	M	2003	All	All	66	43	78	24	2,018	2,018	1,925,676.8	2,403,938	2.2	0.0	.	78	24
<45	F	2004	All	All	71	45	135	42	1,563	1,563	2,155,321.2	2,715,255	2.1	0.0	.	135	42
<45	M	2004	All	All	53	37	69	23	2,061	2,061	1,980,067.9	2,502,247	1.9	0.0	.	69	23
<45	F	2005	All	All	70	48	129	38	1,491	1,491	2,287,699.5	2,893,988	2.1	0.0	.	129	38
<45	M	2005	All	All	43	33	78	25	2,105	2,105	2,100,357.3	2,667,845	1.6	0.0	.	78	25
<45	F	2006	All	All	54	32	78	26	1,426	1,426	2,358,068.9	2,903,840	1.4	0.0	.	78	26
<45	M	2006	All	All	54	41	60	20	1,882	1,882	2,168,631.5	2,676,725	1.9	0.0	.	60	20
<45	F	2007	All	All	35	27	54	18	1,406	1,406	2,355,718.1	2,894,205	1.1	0.0	.	54	18
<45	M	2007	All	All	57	39	78	26	1,913	1,913	2,173,079.4	2,671,059	1.8	0.0	.	78	26
<45	F	2008	All	All	64	40	57	17	1,282	1,282	2,374,122.5	2,937,544	1.7	0.0	.	57	17
<45	M	2008	All	All	50	31	75	25	1,759	1,759	2,191,009.5	2,711,424	1.4	0.0	.	75	25
<45	F	2009	All	All	32	17	60	19	1,357	1,357	2,405,712.3	2,954,419	0.7	0.0	.	60	19
<45	M	2009	All	All	57	33	72	24	1,680	1,680	2,202,210.8	2,713,705	1.5	0.0	.	72	24
<45	F	2010	All	All	44	27	78	25	1,307	1,307	2,464,819.5	3,005,342	1.1	0.0	.	78	25
<45	M	2010	All	All	56	35	66	21	1,637	1,637	2,239,726.7	2,741,892	1.6	0.0	.	66	21
<45	F	2011	All	All	68	37	69	23	1,264	1,264	2,514,107.1	3,050,258	1.5	0.0	.	69	23
<45	M	2011	All	All	65	37	81	27	1,606	1,606	2,290,128.1	2,789,539	1.6	0.0	.	81	27
<45	F	2012	All	All	59	32	72	24	1,340	1,340	2,539,938.2	3,052,212	1.3	0.0	.	72	24
<45	M	2012	All	All	46	28	69	23	1,674	1,674	2,322,342.5	2,796,101	1.2	0.0	.	69	23
<45	F	2013	All	All	46	24	54	18	1,245	1,245	2,514,879.4	3,037,621	1.0	0.0	.	54	18
<45	M	2013	All	All	43	24	42	14	1,661	1,661	2,308,872.5	2,788,356	1.0	0.0	.	42	14
<45	F	2014	All	All	51	33	69	22	1,299	1,299	2,579,600.7	3,108,031	1.3	0.0	.	69	22
<45	M	2014	All	All	52	31	51	17	1,698	1,698	2,365,388.4	2,874,449	1.3	0.0	.	51	17
<45	F	2015	All	All	46	28	66	22	1,400	1,400	2,700,928.9	3,239,095	1.0	0.0	.	66	22
<45	M	2015	All	All	41	26	42	14	1,788	1,788	2,470,963.9	2,997,121	1.1	0.0	.	42	14
<45	F	2016	All	All	15	13	0	0	442	442	2,116,349.3	2,602,784	0.6	0.0	.	0	0
<45	M	2016	All	All	36	22	6	2	709	709	2,058,558.2	2,551,698	1.1	0.0	.	6	2
<45	F	2017	All	All	1	1	0	0	221	221	1,092,466.8	2,375,185	0.1	0.0	.	0	0
<45	M	2017	All	All	10	4	0	0	324	324	1,059,826.3	2,316,190	0.4	0.0	.	0	0
45-54	F	2000	All	All	36	25	60	20	750	750	255,394.0	561,436	9.8	0.0	.	60	20
45-54	M	2000	All	All	33	25	69	21	1,027	1,027	228,239.7	502,599	11.0	0.0	.	69	21
45-54	F	2001	All	All	69	45	141	44	1,639	1,639	507,735.0	616,631	8.9	0.0	.	141	44
45-54	M	2001	All	All	53	38	129	41	2,195	2,195	453,954.9	555,216	8.4	0.0	.	129	41
45-54	F	2002	All	All	80	57	132	44	1,688	1,688	513,978.7	632,245	11.1	0.0	.	132	44
45-54	M	2002	All	All	76	55	147	48	2,299	2,299	459,227.3	570,112	12.0	0.0	.	147	48
45-54	F	2003	All	All	74	54	153	48	1,735	1,735	517,359.2	636,311	10.4	0.0	.	153	48
45-54	M	2003	All	All	85	56	138	45	2,476	2,476	462,992.2	574,030	12.1	0.0	.	138	45
45-54	F	2004	All	All	84	51	174	54	1,848	1,848	549,661.4	693,435	9.3	0.0	.	174	54

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
(Years)	Sex	Year			Death Codes	Death Codes	Record	Record	Death Table	Death Table	Member-Years	Members	Member-Years	Deaths	Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
45-54	M	2004	All	All	89	51	153	50	2,347	2,347	490,137.5	621,111	10.4	0.0	.	153	50
45-54	F	2005	All	All	115	72	171	54	1,938	1,938	597,781.7	756,978	12.0	0.0	.	171	54
45-54	M	2005	All	All	105	68	180	55	2,519	2,519	530,159.3	675,148	12.8	0.0	.	180	55
45-54	F	2006	All	All	115	56	174	57	1,867	1,867	613,986.6	751,743	9.1	0.0	.	174	57
45-54	M	2006	All	All	79	52	123	40	2,401	2,401	545,536.6	672,456	9.5	0.0	.	123	40
45-54	F	2007	All	All	108	60	141	47	1,695	1,695	618,852.1	753,503	9.7	0.0	.	141	47
45-54	M	2007	All	All	122	69	162	53	2,327	2,327	550,528.4	675,301	12.5	0.0	.	162	53
45-54	F	2008	All	All	102	60	150	50	1,784	1,784	623,417.7	763,509	9.6	0.0	.	150	50
45-54	M	2008	All	All	122	61	138	46	2,301	2,301	555,953.5	685,297	11.0	0.0	.	138	46
45-54	F	2009	All	All	100	51	168	53	1,811	1,811	626,816.9	770,086	8.1	0.0	.	168	53
45-54	M	2009	All	All	79	45	111	36	2,271	2,271	555,656.9	689,415	8.1	0.0	.	111	36
45-54	F	2010	All	All	90	48	111	37	1,669	1,669	631,377.8	775,255	7.6	0.0	.	111	37
45-54	M	2010	All	All	58	36	96	32	2,113	2,113	557,163.0	691,122	6.5	0.0	.	96	32
45-54	F	2011	All	All	72	47	144	47	1,770	1,770	634,619.5	775,898	7.4	0.0	.	144	47
45-54	M	2011	All	All	120	59	156	49	2,153	2,153	560,063.0	690,575	10.5	0.0	.	156	49
45-54	F	2012	All	All	106	53	129	43	1,746	1,746	629,675.6	763,771	8.4	0.0	.	129	43
45-54	M	2012	All	All	92	59	147	49	2,203	2,203	557,490.0	681,069	10.6	0.0	.	147	49
45-54	F	2013	All	All	78	43	102	32	1,684	1,684	618,144.8	755,276	7.0	0.0	.	102	32
45-54	M	2013	All	All	78	42	93	31	2,010	2,010	550,758.2	677,660	7.6	0.0	.	93	31
45-54	F	2014	All	All	58	36	84	28	1,717	1,717	619,250.4	778,289	5.8	0.0	.	84	28
45-54	M	2014	All	All	78	42	99	33	2,045	2,045	554,544.6	703,114	7.6	0.0	.	99	33
45-54	F	2015	All	All	82	47	81	26	1,710	1,710	631,364.9	790,242	7.4	0.0	.	81	26
45-54	M	2015	All	All	47	28	81	26	1,972	1,972	567,175.2	717,070	4.9	0.0	.	81	26
45-54	F	2016	All	All	46	22	0	0	617	617	587,967.0	734,596	3.7	0.0	.	0	0
45-54	M	2016	All	All	38	19	3	1	834	834	543,242.2	683,736	3.5	0.0	.	3	1
45-54	F	2017	All	All	11	7	0	0	297	297	303,182.9	659,718	2.3	0.0	.	0	0
45-54	M	2017	All	All	3	2	0	0	394	394	278,272.7	611,640	0.7	0.0	.	0	0
55-64	F	2000	All	All	49	27	93	27	1,347	1,347	172,724.7	375,655	15.6	0.0	.	93	27
55-64	M	2000	All	All	69	47	84	28	1,839	1,839	152,393.4	332,185	30.8	0.0	.	84	28
55-64	F	2001	All	All	109	72	216	70	2,752	2,752	347,548.2	417,640	20.7	0.0	.	216	70
55-64	M	2001	All	All	97	72	171	57	3,525	3,525	305,052.2	369,447	23.6	0.0	.	171	57
55-64	F	2002	All	All	104	73	216	68	2,884	2,884	370,221.7	445,468	19.7	0.0	.	216	68
55-64	M	2002	All	All	141	88	207	65	3,843	3,843	324,567.1	393,900	27.1	0.0	.	207	65
55-64	F	2003	All	All	87	62	213	67	3,040	3,040	388,213.0	465,729	16.0	0.0	.	213	67
55-64	M	2003	All	All	93	66	150	49	3,811	3,811	339,854.1	411,343	19.4	0.0	.	150	49
55-64	F	2004	All	All	111	82	183	60	3,060	3,060	423,803.1	521,473	19.3	0.0	.	183	60
55-64	M	2004	All	All	140	93	243	80	3,985	3,985	372,392.2	461,700	25.0	0.0	.	243	80
55-64	F	2005	All	All	138	90	195	65	3,215	3,215	469,383.5	578,893	19.2	0.0	.	195	65

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
(Years)	Sex	Year			Death Codes	Death Codes	Cause of Death (COD) Record	Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
55-64	M	2005	All	All	153	90	204	68	4,121	4,121	414,310.9	512,529	21.7	0.0	.	204	68
55-64	F	2006	All	All	163	92	195	61	3,241	3,241	488,581.2	583,363	18.8	0.0	.	195	61
55-64	M	2006	All	All	144	86	234	75	3,990	3,990	434,659.1	520,343	19.8	0.0	.	234	75
55-64	F	2007	All	All	169	86	219	72	3,198	3,198	506,395.4	599,950	17.0	0.0	.	219	72
55-64	M	2007	All	All	186	104	228	75	4,087	4,087	449,900.8	535,822	23.1	0.0	.	228	75
55-64	F	2008	All	All	153	97	216	71	3,206	3,206	523,700.6	621,959	18.5	0.0	.	216	71
55-64	M	2008	All	All	168	101	174	58	4,061	4,061	464,510.2	555,253	21.7	0.0	.	174	58
55-64	F	2009	All	All	113	65	171	55	3,183	3,183	543,085.3	647,933	12.0	0.0	.	171	55
55-64	M	2009	All	All	208	109	228	74	4,079	4,079	476,689.9	574,124	22.9	0.0	.	228	74
55-64	F	2010	All	All	138	81	228	73	3,077	3,077	565,237.1	672,592	14.3	0.0	.	228	73
55-64	M	2010	All	All	177	89	210	70	4,050	4,050	491,716.0	591,359	18.1	0.0	.	210	70
55-64	F	2011	All	All	176	96	240	76	3,341	3,341	588,609.2	700,600	16.3	0.0	.	240	76
55-64	M	2011	All	All	193	108	180	60	4,109	4,109	510,019.7	612,006	21.2	0.0	.	180	60
55-64	F	2012	All	All	153	87	222	69	3,416	3,416	596,928.9	709,994	14.6	0.0	.	222	69
55-64	M	2012	All	All	209	109	195	65	4,300	4,300	516,725.0	618,962	21.1	0.0	.	195	65
55-64	F	2013	All	All	170	84	207	69	3,457	3,457	599,356.4	714,068	14.0	0.0	.	207	69
55-64	M	2013	All	All	175	86	180	60	4,258	4,258	521,048.9	625,259	16.5	0.0	.	180	60
55-64	F	2014	All	All	204	114	219	73	3,534	3,534	609,383.5	747,915	18.7	0.0	.	219	73
55-64	M	2014	All	All	221	112	222	71	4,309	4,309	531,844.8	657,095	21.1	0.0	.	222	71
55-64	F	2015	All	All	157	78	183	60	3,447	3,447	625,932.1	764,065	12.5	0.0	.	183	60
55-64	M	2015	All	All	215	101	195	64	4,507	4,507	548,515.7	674,720	18.4	0.0	.	195	64
55-64	F	2016	All	All	56	30	15	5	1,718	1,718	600,903.4	734,067	5.0	0.0	.	15	5
55-64	M	2016	All	All	84	44	15	5	2,179	2,179	531,175.0	652,763	8.3	0.0	.	15	5
55-64	F	2017	All	All	36	18	0	0	908	908	317,606.2	677,842	5.7	0.0	.	0	0
55-64	M	2017	All	All	48	26	3	1	1,157	1,157	278,347.8	600,013	9.3	0.0	.	3	1
65-74	F	2000	All	All	84	64	156	49	2,245	2,245	119,437.5	257,853	53.6	0.0	.	156	49
65-74	M	2000	All	All	73	58	147	47	2,607	2,607	97,136.4	210,237	59.7	0.0	.	147	47
65-74	F	2001	All	All	186	133	330	105	4,840	4,840	237,284.4	276,911	56.1	0.0	.	330	105
65-74	M	2001	All	All	146	108	246	81	5,419	5,419	192,435.8	226,076	56.1	0.0	.	246	81
65-74	F	2002	All	All	160	112	240	76	4,838	4,838	241,336.9	282,340	46.4	0.0	.	240	76
65-74	M	2002	All	All	148	112	270	87	5,487	5,487	194,822.7	230,519	57.5	0.0	.	270	87
65-74	F	2003	All	All	176	133	315	98	4,964	4,964	243,355.4	285,560	54.7	0.0	.	315	98
65-74	M	2003	All	All	190	130	270	87	5,538	5,538	197,293.9	233,821	65.9	0.0	.	270	87
65-74	F	2004	All	All	158	110	261	85	4,945	4,945	255,556.2	304,936	43.0	0.0	.	261	85
65-74	M	2004	All	All	160	104	234	77	5,432	5,432	207,955.3	250,593	50.0	0.0	.	234	77
65-74	F	2005	All	All	214	142	315	101	5,045	5,045	269,889.5	321,815	52.6	0.0	.	315	101
65-74	M	2005	All	All	187	131	309	101	5,677	5,677	221,286.4	266,523	59.2	0.0	.	309	101
65-74	F	2006	All	All	185	131	237	75	4,707	4,707	270,691.8	318,259	48.4	0.0	.	237	75

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
Years	Sex	Year			Codes	Codes	Codes	Codes	Codes	Codes	Codes	Codes	Codes	Codes	Codes	Codes	Codes
65-74	M	2006	All	All	210	119	219	73	5,297	5,297	223,319.4	265,119	53.3	0.0	.	219	73
65-74	F	2007	All	All	226	143	252	83	4,515	4,515	264,387.5	309,472	54.1	0.0	.	252	83
65-74	M	2007	All	All	187	121	237	76	4,986	4,986	219,226.7	258,959	55.2	0.0	.	237	76
65-74	F	2008	All	All	187	112	189	63	4,609	4,609	272,685.5	316,469	41.1	0.0	.	189	63
65-74	M	2008	All	All	240	133	264	87	5,151	5,151	226,468.1	265,575	58.7	0.0	.	264	87
65-74	F	2009	All	All	198	116	225	74	4,541	4,541	280,834.9	328,997	41.3	0.0	.	225	74
65-74	M	2009	All	All	218	134	267	89	4,840	4,840	234,287.3	276,788	57.2	0.0	.	267	89
65-74	F	2010	All	All	244	134	276	89	4,449	4,449	292,102.2	341,460	45.9	0.0	.	276	89
65-74	M	2010	All	All	255	134	231	75	4,888	4,888	244,956.9	288,583	54.7	0.0	.	231	75
65-74	F	2011	All	All	219	117	261	84	4,560	4,560	312,986.6	371,236	37.4	0.0	.	261	84
65-74	M	2011	All	All	228	125	237	77	5,217	5,217	263,131.3	314,573	47.5	0.0	.	237	77
65-74	F	2012	All	All	273	158	285	93	5,099	5,099	345,312.2	406,514	45.8	0.0	.	285	93
65-74	M	2012	All	All	278	146	246	81	5,554	5,554	290,529.3	343,995	50.3	0.0	.	246	81
65-74	F	2013	All	All	277	138	261	83	5,258	5,258	373,758.5	438,193	36.9	0.0	.	261	83
65-74	M	2013	All	All	328	153	255	84	6,030	6,030	313,938.5	370,408	48.7	0.0	.	255	84
65-74	F	2014	All	All	312	164	240	78	5,575	5,575	397,355.3	462,563	41.3	0.0	.	240	78
65-74	M	2014	All	All	325	159	285	94	6,198	6,198	333,380.1	390,216	47.7	0.0	.	285	94
65-74	F	2015	All	All	236	124	228	76	5,630	5,630	413,028.1	483,243	30.0	0.0	.	228	76
65-74	M	2015	All	All	291	159	240	80	6,098	6,098	345,626.8	407,910	46.0	0.0	.	240	80
65-74	F	2016	All	All	122	72	18	6	3,540	3,540	391,317.0	452,219	18.4	0.0	.	18	6
65-74	M	2016	All	All	123	67	12	4	4,137	4,137	338,891.8	394,497	19.8	0.0	.	12	4
65-74	F	2017	All	All	60	35	3	1	1,862	1,862	219,702.2	439,966	15.9	0.0	.	3	1
65-74	M	2017	All	All	63	35	0	0	2,338	2,338	188,950.7	381,195	18.5	0.0	.	0	0
75-84	F	2000	All	All	132	104	207	67	3,634	3,634	77,579.9	167,411	134.1	0.0	.	207	67
75-84	M	2000	All	All	79	60	156	50	3,148	3,148	49,918.0	108,050	120.2	0.0	.	156	50
75-84	F	2001	All	All	264	203	408	135	7,694	7,694	156,294.1	182,441	129.9	0.0	.	408	135
75-84	M	2001	All	All	221	160	366	118	6,535	6,535	100,371.0	118,141	159.4	0.0	.	366	118
75-84	F	2002	All	All	264	215	435	140	8,115	8,115	161,884.8	189,741	132.8	0.0	.	435	140
75-84	M	2002	All	All	187	139	270	89	6,788	6,788	104,150.6	122,919	133.5	0.0	.	270	89
75-84	F	2003	All	All	330	243	459	150	8,341	8,341	166,153.3	193,858	146.3	0.0	.	459	150
75-84	M	2003	All	All	193	142	342	110	7,157	7,157	107,288.8	126,219	132.4	0.0	.	342	110
75-84	F	2004	All	All	315	232	516	170	8,440	8,440	176,729.6	210,446	131.3	0.0	.	516	170
75-84	M	2004	All	All	200	131	303	100	7,118	7,118	115,259.2	138,912	113.7	0.0	.	303	100
75-84	F	2005	All	All	438	287	519	172	8,744	8,744	188,428.5	220,979	152.3	0.0	.	519	172
75-84	M	2005	All	All	299	206	327	109	7,518	7,518	124,608.2	147,784	165.3	0.0	.	327	109
75-84	F	2006	All	All	414	273	477	155	8,560	8,560	189,562.8	220,244	144.0	0.0	.	477	155
75-84	M	2006	All	All	310	200	339	112	7,345	7,345	126,728.9	148,645	157.8	0.0	.	339	112
75-84	F	2007	All	All	380	254	441	145	7,956	7,956	180,178.9	208,173	141.0	0.0	.	441	145

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
Years	Sex	Year			Death Codes	Death Codes	Cause of Death (COD) Record	Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes
75-84	M	2007	All	All	257	169	294	95	6,791	6,791	121,060.0	140,988	139.6	0.0	.	294	95
75-84	F	2008	All	All	397	248	390	129	7,943	7,943	180,099.2	206,458	137.7	0.0	.	390	129
75-84	M	2008	All	All	291	181	330	107	6,819	6,819	122,482.6	141,364	147.8	0.0	.	330	107
75-84	F	2009	All	All	368	226	342	112	7,702	7,702	179,114.6	207,212	126.2	0.0	.	342	112
75-84	M	2009	All	All	289	174	321	106	6,649	6,649	123,705.2	143,650	140.7	0.0	.	321	106
75-84	F	2010	All	All	401	241	372	124	7,704	7,704	180,268.3	208,540	133.7	0.0	.	372	124
75-84	M	2010	All	All	335	166	303	97	6,727	6,727	126,602.7	147,089	131.1	0.0	.	303	97
75-84	F	2011	All	All	417	248	459	152	7,799	7,799	184,951.2	214,480	134.1	0.0	.	459	152
75-84	M	2011	All	All	333	161	312	99	6,758	6,758	131,774.3	153,414	122.2	0.0	.	312	99
75-84	F	2012	All	All	419	229	408	133	7,991	7,991	190,305.5	219,855	120.3	0.0	.	408	133
75-84	M	2012	All	All	342	180	300	100	6,996	6,996	137,402.5	159,290	131.0	0.0	.	300	100
75-84	F	2013	All	All	509	256	456	150	8,207	8,207	194,490.2	225,326	131.6	0.0	.	456	150
75-84	M	2013	All	All	371	183	243	78	7,541	7,541	142,194.6	165,543	128.7	0.0	.	243	78
75-84	F	2014	All	All	570	300	492	161	8,201	8,201	195,966.9	226,464	153.1	0.0	.	492	161
75-84	M	2014	All	All	390	207	315	105	7,450	7,450	144,768.3	167,969	143.0	0.0	.	315	105
75-84	F	2015	All	All	449	242	342	114	8,277	8,277	195,356.5	229,547	123.9	0.0	.	342	114
75-84	M	2015	All	All	384	193	354	115	7,294	7,294	145,388.7	172,168	132.7	0.0	.	354	115
75-84	F	2016	All	All	189	107	30	10	5,239	5,239	171,372.4	197,280	62.4	0.0	.	30	10
75-84	M	2016	All	All	184	93	18	6	5,646	5,646	138,563.3	160,458	67.1	0.0	.	18	6
75-84	F	2017	All	All	89	54	0	0	2,931	2,931	95,456.9	191,898	56.6	0.0	.	0	0
75-84	M	2017	All	All	102	55	3	1	3,069	3,069	77,624.4	156,169	70.9	0.0	.	3	1
85+	F	2000	All	All	67	56	114	38	4,138	4,138	27,713.0	61,107	202.1	0.0	.	114	38
85+	M	2000	All	All	42	31	54	18	1,867	1,867	11,297.4	25,229	274.4	0.0	.	54	18
85+	F	2001	All	All	204	165	291	97	8,712	8,712	55,835.2	68,364	295.5	0.0	.	291	97
85+	M	2001	All	All	98	74	87	28	4,035	4,035	22,955.9	28,721	322.4	0.0	.	87	28
85+	F	2002	All	All	221	171	297	97	9,184	9,184	58,256.6	71,578	293.5	0.0	.	297	97
85+	M	2002	All	All	71	57	84	27	4,294	4,294	24,085.9	30,422	236.7	0.0	.	84	27
85+	F	2003	All	All	210	173	261	84	9,603	9,603	60,710.0	74,336	285.0	0.0	.	261	84
85+	M	2003	All	All	72	58	129	41	4,513	4,513	25,550.3	31,913	227.0	0.0	.	129	41
85+	F	2004	All	All	235	189	297	96	9,675	9,675	65,522.9	82,223	288.4	0.0	.	297	96
85+	M	2004	All	All	106	78	183	59	4,677	4,677	28,185.7	36,255	276.7	0.0	.	183	59
85+	F	2005	All	All	367	263	339	111	10,499	10,499	71,913.9	87,754	365.7	0.0	.	339	111
85+	M	2005	All	All	178	127	147	49	5,033	5,033	31,568.8	39,486	402.3	0.0	.	147	49
85+	F	2006	All	All	418	280	351	116	10,247	10,247	74,824.2	90,863	374.2	0.0	.	351	116
85+	M	2006	All	All	158	108	156	52	5,176	5,176	33,474.3	41,576	322.6	0.0	.	156	52
85+	F	2007	All	All	422	282	330	107	10,300	10,300	75,529.8	90,702	373.4	0.0	.	330	107
85+	M	2007	All	All	202	128	180	59	5,068	5,068	34,164.8	41,656	374.7	0.0	.	180	59
85+	F	2008	All	All	479	289	369	122	10,587	10,587	78,527.5	93,667	368.0	0.0	.	369	122

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death, Sensitivity and Secondary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	Members with Stroke-Related Death Codes	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000 Member-Years	Rate of Stroke-Related Death among all Deaths	Age Standardized Death Rate	Stroke-Related COD Codes	Members with Stroke-Related COD Codes	
85+	M	2008	All	All	All	163	103	126	41	5,235	5,235	35,933.1	43,520	286.6	0.0	.	126	41
85+	F	2009	All	All	All	378	241	351	117	10,710	10,710	81,434.6	96,935	295.9	0.0	.	351	117
85+	M	2009	All	All	All	234	140	189	63	5,428	5,428	37,753.6	45,651	370.8	0.0	.	189	63
85+	F	2010	All	All	All	470	293	372	122	11,146	11,146	84,441.0	100,334	347.0	0.0	.	372	122
85+	M	2010	All	All	All	234	138	207	68	5,718	5,718	39,759.8	47,938	347.1	0.0	.	207	68
85+	F	2011	All	All	All	533	314	378	124	11,572	11,572	88,205.7	104,823	356.0	0.0	.	378	124
85+	M	2011	All	All	All	258	138	213	70	6,077	6,077	41,977.5	50,875	328.7	0.0	.	213	70
85+	F	2012	All	All	All	550	334	399	132	11,915	11,915	92,146.9	108,812	362.5	0.0	.	399	132
85+	M	2012	All	All	All	262	152	177	59	6,470	6,470	44,506.2	53,531	341.5	0.0	.	177	59
85+	F	2013	All	All	All	602	356	399	129	13,054	13,054	94,665.2	112,244	376.1	0.0	.	399	129
85+	M	2013	All	All	All	284	161	219	71	7,174	7,174	46,385.4	56,033	347.1	0.0	.	219	71
85+	F	2014	All	All	All	601	353	393	129	13,035	13,035	95,101.8	112,218	371.2	0.0	.	393	129
85+	M	2014	All	All	All	333	177	252	83	6,941	6,941	47,123.6	56,612	375.6	0.0	.	252	83
85+	F	2015	All	All	All	590	351	447	147	13,020	13,020	93,053.1	112,023	377.2	0.0	.	447	147
85+	M	2015	All	All	All	292	167	168	55	6,975	6,975	47,352.2	58,199	352.7	0.0	.	168	55
85+	F	2016	All	All	All	199	132	15	5	8,917	8,917	78,839.2	91,760	167.4	0.0	.	15	5
85+	M	2016	All	All	All	110	71	21	7	5,941	5,941	45,639.0	54,402	155.6	0.0	.	21	7
85+	F	2017	All	All	All	115	72	6	2	5,014	5,014	42,709.9	87,291	168.6	0.0	.	6	2
85+	M	2017	All	All	All	70	41	3	1	3,495	3,495	25,048.6	51,795	163.7	0.0	.	3	1
All	All	All	American Indian/Alaskan Native	All	All	186	104	165	54	3,708	3,708	690,475.0	111,257	15.1	0.0	.	165	54
All	All	All	Asian	All	All	2,761	1,617	3,579	1,165	42,422	42,422	11,575,696.2	1,664,660	14.0	0.0	.	3,579	1,165
All	All	All	Black/African American	All	All	3,378	2,219	4,374	1,437	95,701	95,701	12,651,408.7	1,960,046	17.5	0.0	.	4,374	1,437
All	All	All	Native Hawaiian/Pacific Islander	All	All	336	207	414	134	6,333	6,333	1,523,448.1	212,529	13.6	0.0	.	414	134
All	All	All	Unknown	All	All	6,841	3,622	6,780	2,209	135,667	135,667	38,430,210.1	11,188,504	9.4	0.0	.	6,780	2,209
All	All	All	White	All	All	24,051	15,091	25,299	8,243	648,858	648,858	63,974,175.1	9,575,649	23.6	0.0	.	25,299	8,243
All	All	All	All	No	All	13,066	8,690	15,423	5,047	421,413	421,413	37,119,593.6	6,021,371	23.4	0.0	.	15,423	5,047
All	All	All	All	Unknown	All	22,099	12,764	22,314	7,273	467,681	467,681	79,109,298.1	16,744,922	16.1	0.0	.	22,314	7,273
All	All	All	All	Yes	All	2,388	1,406	2,874	922	43,595	43,595	12,616,521.6	1,946,352	11.1	0.0	.	2,874	922

Table 6a. Number of Stroke-Related Cause of Death (COD) Codes, Sensitivity and Secondary Analysis, by Source

Source	Aggregate
N: National Death Index	1,524
S: State Death Files	37,128
L: Other, locally defined	1,677
T: Tumor Data	282
Total	40,611

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD)		Records of Death and a Corresponding Cause of Death (COD) Record		Members with Record of Death and Corresponding COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000 Member-Years		Rate of SCD among all Deaths		Age Standardized Death Rate		Members with SCD COD Codes	
					Codes	with SCD	Record	Record	Record	Record	Table	Table	Eligible Member-Years	Eligible Members	Member-Years	Deaths	Standardized	SCD COD Codes	Members with SCD COD Codes			
All	All	All	All	All	75,933	66,542	191,340	95,208	932,689	932,689	128,845,413	24,712,645	51.6	0.1	49.0	191,340	95,208					
<45	All	All	All	All	9,492	8,510	7,126	3,543	52,215	52,215	76,679,294.5	18,007,648	11.1	0.2	.	7,126	3,543					
45-54	All	All	All	All	9,318	8,186	12,158	6,048	63,852	63,852	19,081,661.5	5,278,030	42.9	0.1	.	12,158	6,048					
55-64	All	All	All	All	14,028	12,216	24,620	12,243	118,234	118,234	16,401,336.4	4,174,214	74.5	0.1	.	24,620	12,243					
65-74	All	All	All	All	16,173	14,035	37,748	18,751	172,116	172,116	9,534,659.2	2,279,937	147.2	0.1	.	37,748	18,751					
75-84	All	All	All	All	16,105	14,037	54,554	27,139	250,827	250,827	5,204,085.1	1,169,299	269.7	0.1	.	54,554	27,139					
85+	All	All	All	All	10,817	9,558	55,134	27,484	275,445	275,445	1,942,192.3	512,834	492.1	0.0	.	55,134	27,484					
All	F	All	All	All	33,399	29,579	99,716	49,685	498,316	498,316	68,304,045.5	12,757,524	43.3	0.1	.	99,716	49,685					
All	M	All	All	All	42,534	36,963	91,624	45,523	434,373	434,373	60,541,367.8	11,955,121	61.1	0.1	.	91,624	45,523					
<45	F	All	All	All	3,916	3,492	3,238	1,611	22,299	22,299	39,900,261.3	9,189,785	8.8	0.2	.	3,238	1,611					
<45	M	All	All	All	5,576	5,018	3,888	1,932	29,916	29,916	36,779,033.2	8,817,863	13.6	0.2	.	3,888	1,932					
45-54	F	All	All	All	3,698	3,269	5,360	2,664	27,965	27,965	10,080,566.2	2,748,205	32.4	0.1	.	5,360	2,664					
45-54	M	All	All	All	5,620	4,917	6,798	3,384	35,887	35,887	9,001,095.3	2,529,825	54.6	0.1	.	6,798	3,384					
55-64	F	All	All	All	5,173	4,566	10,544	5,246	52,024	52,024	8,737,613.7	2,192,926	52.3	0.1	.	10,544	5,246					
55-64	M	All	All	All	8,855	7,650	14,076	6,997	66,210	66,210	7,663,722.8	1,981,288	99.8	0.1	.	14,076	6,997					
65-74	F	All	All	All	6,354	5,596	17,000	8,468	81,222	81,222	5,201,021.6	1,223,070	107.6	0.1	.	17,000	8,468					
65-74	M	All	All	All	9,819	8,439	20,748	10,283	90,894	90,894	4,333,637.6	1,056,867	194.7	0.1	.	20,748	10,283					
75-84	F	All	All	All	7,563	6,692	27,928	13,918	133,478	133,478	3,064,193.8	676,985	218.4	0.1	.	27,928	13,918					
75-84	M	All	All	All	8,542	7,345	26,626	13,221	117,349	117,349	2,139,891.2	492,314	343.2	0.1	.	26,626	13,221					
85+	F	All	All	All	6,695	5,964	35,646	17,778	181,328	181,328	1,319,430.3	337,545	452.0	0.0	.	35,646	17,778					
85+	M	All	All	All	4,122	3,594	19,488	9,706	94,117	94,117	622,762.0	175,289	577.1	0.0	.	19,488	9,706					
All	All	2000	All	All	2,090	1,858	6,458	3,225	24,352	24,352	3,265,482.3	7,070,831	56.9	0.1	59.5	6,458	3,225					
All	All	2001	All	All	4,528	4,045	12,844	6,400	50,915	50,915	6,483,143.4	7,612,138	62.4	0.1	64.9	12,844	6,400					
All	All	2002	All	All	4,583	4,110	13,420	6,672	53,216	53,216	6,546,876.2	7,743,773	62.8	0.1	63.8	13,420	6,672					
All	All	2003	All	All	4,834	4,294	13,932	6,943	54,738	54,738	6,525,866.5	7,738,499	65.8	0.1	65.2	13,932	6,943					
All	All	2004	All	All	5,008	4,330	13,534	6,735	55,151	55,151	6,820,683.9	8,226,065	63.5	0.1	61.8	13,534	6,735					
All	All	2005	All	All	5,110	4,490	13,754	6,848	57,905	57,905	7,307,556.6	8,830,118	61.4	0.1	59.2	13,754	6,848					
All	All	2006	All	All	4,567	4,054	12,554	6,251	56,139	56,139	7,528,293.6	8,844,496	53.9	0.1	52.2	12,554	6,251					
All	All	2007	All	All	4,309	3,848	11,864	5,904	54,242	54,242	7,549,243.6	8,824,893	51.0	0.1	49.8	11,864	5,904					
All	All	2008	All	All	4,437	3,955	11,270	5,598	54,737	54,737	7,649,117.1	8,987,418	51.7	0.1	50.3	11,270	5,598					
All	All	2009	All	All	4,589	3,987	11,768	5,848	54,251	54,251	7,747,500.9	9,091,018	51.5	0.1	49.5	11,768	5,848					
All	All	2010	All	All	4,692	4,039	12,004	5,968	54,485	54,485	7,918,332.3	9,256,124	51.0	0.1	49.0	12,004	5,968					
All	All	2011	All	All	4,847	4,106	12,518	6,227	56,226	56,226	8,120,707.1	9,454,662	50.6	0.1	47.9	12,518	6,227					
All	All	2012	All	All	4,876	4,251	13,314	6,622	58,704	58,704	8,263,418.9	9,527,543	51.4	0.1	47.3	13,314	6,622					
All	All	2013	All	All	4,822	4,117	13,352	6,644	61,579	61,579	8,278,595.6	9,579,268	49.7	0.1	45.1	13,352	6,644					
All	All	2014	All	All	4,844	4,193	12,804	6,365	62,002	62,002	8,473,785.2	9,889,824	49.5	0.1	44.6	12,804	6,365					
All	All	2015	All	All	4,422	3,901	5,692	2,831	62,118	62,118	8,784,751.0	10,235,706	44.4	0.1	40.8	5,692	2,831					
All	All	2016	All	All	2,234	1,941	244	120	39,919	39,919	7,602,857.6	8,929,174	25.5	0.0	22.4	244	120					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category			Race	Hispanic	Sudden Cardiac Death (SCD)		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and Corresponding COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized		Members with SCD	
Years	Sex	Year			Codes	with SCD	Record	Record	Record	Table	Table	Member-Years	Eligible Members	Member-Years	Eligible Members	Years	Deaths	Death Rate	SCD Codes	COD Codes		
All	All	2017	All	All	1,141	1,023	14	7	22,010	22,010	3,979,201.6	8,349,076	25.7	0.0	21.4	14	7					
<45	All	2000	All	All	264	235	278	139	1,750	1,750	2,073,595.0	4,606,003	11.3	0.1	.	278	139					
<45	All	2001	All	All	597	534	552	276	3,569	3,569	4,103,577.0	5,038,056	13.0	0.1	.	552	276					
<45	All	2002	All	All	617	555	600	299	3,796	3,796	4,094,231.7	5,074,975	13.6	0.1	.	600	299					
<45	All	2003	All	All	624	557	588	291	3,560	3,560	4,016,995.2	5,002,994	13.9	0.2	.	588	291					
<45	All	2004	All	All	731	633	488	244	3,624	3,624	4,135,389.1	5,217,502	15.3	0.2	.	488	244					
<45	All	2005	All	All	704	639	548	273	3,596	3,596	4,388,056.8	5,561,833	14.6	0.2	.	548	273					
<45	All	2006	All	All	645	587	488	244	3,308	3,308	4,526,700.5	5,580,565	13.0	0.2	.	488	244					
<45	All	2007	All	All	564	509	450	223	3,319	3,319	4,528,797.5	5,565,264	11.2	0.2	.	450	223					
<45	All	2008	All	All	568	523	374	187	3,041	3,041	4,565,132.0	5,648,968	11.5	0.2	.	374	187					
<45	All	2009	All	All	586	510	448	223	3,037	3,037	4,607,923.1	5,668,124	11.1	0.2	.	448	223					
<45	All	2010	All	All	585	516	384	189	2,944	2,944	4,704,546.2	5,747,234	11.0	0.2	.	384	189					
<45	All	2011	All	All	565	502	394	194	2,870	2,870	4,804,235.3	5,839,797	10.4	0.2	.	394	194					
<45	All	2012	All	All	585	525	414	205	3,014	3,014	4,862,280.7	5,848,313	10.8	0.2	.	414	205					
<45	All	2013	All	All	552	497	398	197	2,906	2,906	4,823,751.9	5,825,977	10.3	0.2	.	398	197					
<45	All	2014	All	All	540	501	432	215	2,997	2,997	4,944,989.1	5,982,480	10.1	0.2	.	432	215					
<45	All	2015	All	All	553	491	286	142	3,188	3,188	5,171,892.8	6,236,216	9.5	0.2	.	286	142					
<45	All	2016	All	All	150	137	4	2	1,151	1,151	4,174,907.5	5,154,482	3.3	0.1	.	4	2					
<45	All	2017	All	All	62	59	0	0	545	545	2,152,293.1	4,691,375	2.7	0.1	.	0	0					
45-54	All	2000	All	All	211	195	402	201	1,777	1,777	483,633.7	1,064,035	40.3	0.1	.	402	201					
45-54	All	2001	All	All	530	470	808	403	3,834	3,834	961,689.9	1,171,847	48.9	0.1	.	808	403					
45-54	All	2002	All	All	570	516	826	411	3,987	3,987	973,206.0	1,202,357	53.0	0.1	.	826	411					
45-54	All	2003	All	All	619	551	920	458	4,211	4,211	980,351.5	1,210,341	56.2	0.1	.	920	458					
45-54	All	2004	All	All	642	560	844	420	4,195	4,195	1,039,798.8	1,314,546	53.9	0.1	.	844	420					
45-54	All	2005	All	All	686	600	924	460	4,457	4,457	1,127,941.0	1,432,126	53.2	0.1	.	924	460					
45-54	All	2006	All	All	587	519	826	410	4,268	4,268	1,159,523.2	1,424,199	44.8	0.1	.	826	410					
45-54	All	2007	All	All	559	502	784	388	4,022	4,022	1,169,380.6	1,428,804	42.9	0.1	.	784	388					
45-54	All	2008	All	All	586	516	726	360	4,085	4,085	1,179,371.2	1,448,806	43.8	0.1	.	726	360					
45-54	All	2009	All	All	585	512	836	414	4,082	4,082	1,182,473.8	1,459,501	43.3	0.1	.	836	414					
45-54	All	2010	All	All	625	546	744	370	3,782	3,782	1,188,540.8	1,466,377	45.9	0.1	.	744	370					
45-54	All	2011	All	All	626	534	754	376	3,923	3,923	1,194,682.6	1,466,473	44.7	0.1	.	754	376					
45-54	All	2012	All	All	584	510	756	378	3,949	3,949	1,187,165.6	1,444,840	43.0	0.1	.	756	378					
45-54	All	2013	All	All	574	484	742	369	3,694	3,694	1,168,902.9	1,432,936	41.4	0.1	.	742	369					
45-54	All	2014	All	All	567	488	686	342	3,762	3,762	1,173,795.0	1,481,403	41.6	0.1	.	686	342					
45-54	All	2015	All	All	505	455	560	278	3,682	3,682	1,198,540.1	1,507,312	38.0	0.1	.	560	278					
45-54	All	2016	All	All	184	160	18	9	1,451	1,451	1,131,209.2	1,418,332	14.1	0.1	.	18	9					
45-54	All	2017	All	All	78	68	2	1	691	691	581,455.6	1,271,358	11.7	0.1	.	2	1					
55-64	All	2000	All	All	382	341	856	426	3,186	3,186	325,118.1	707,840	104.9	0.1	.	856	426					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD)	Members with SCD	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of SCD per 100,000 Member-Years	Rate of SCD among all Deaths	Age Standardized Death Rate	SCD COD Codes	Members with SCD COD Codes
					Codes	Codes	Record	Corresponding COD Record	Table	Table	Member-Years	Members	Member-Years	Members	Member-Years	Members	Member-Years
55-64	All	2001	All	All	742	661	1,564	779	6,277	6,277	652,600.4	787,087	101.3	0.1	.	1,564	779
55-64	All	2002	All	All	818	727	1,710	850	6,727	6,727	694,788.8	839,368	104.6	0.1	.	1,710	850
55-64	All	2003	All	All	865	766	1,688	842	6,851	6,851	728,067.1	877,072	105.2	0.1	.	1,688	842
55-64	All	2004	All	All	869	748	1,692	842	7,045	7,045	796,195.3	983,173	93.9	0.1	.	1,692	842
55-64	All	2005	All	All	925	806	1,620	806	7,336	7,336	883,694.4	1,091,422	91.2	0.1	.	1,620	806
55-64	All	2006	All	All	827	729	1,590	789	7,231	7,231	923,240.3	1,103,706	79.0	0.1	.	1,590	789
55-64	All	2007	All	All	821	730	1,546	767	7,285	7,285	956,296.2	1,135,772	76.3	0.1	.	1,546	767
55-64	All	2008	All	All	813	723	1,482	736	7,267	7,267	988,210.8	1,177,212	73.2	0.1	.	1,482	736
55-64	All	2009	All	All	910	789	1,494	742	7,262	7,262	1,019,775.3	1,222,057	77.4	0.1	.	1,494	742
55-64	All	2010	All	All	885	753	1,540	767	7,127	7,127	1,056,953.1	1,263,951	71.2	0.1	.	1,540	767
55-64	All	2011	All	All	881	766	1,624	808	7,450	7,450	1,098,628.9	1,312,606	69.7	0.1	.	1,624	808
55-64	All	2012	All	All	1,008	869	1,670	828	7,716	7,716	1,113,653.9	1,328,956	78.0	0.1	.	1,670	828
55-64	All	2013	All	All	904	770	1,772	882	7,715	7,715	1,120,405.4	1,339,327	68.7	0.1	.	1,772	882
55-64	All	2014	All	All	934	795	1,738	863	7,843	7,843	1,141,228.3	1,405,010	69.7	0.1	.	1,738	863
55-64	All	2015	All	All	878	762	998	498	7,954	7,954	1,174,447.8	1,438,785	64.9	0.1	.	998	498
55-64	All	2016	All	All	363	307	36	18	3,897	3,897	1,132,078.5	1,386,830	27.1	0.1	.	36	18
55-64	All	2017	All	All	203	174	0	0	2,065	2,065	595,954.0	1,277,855	29.2	0.1	.	0	0
65-74	All	2000	All	All	464	407	1,336	667	4,852	4,852	216,573.8	468,090	187.9	0.1	.	1,336	667
65-74	All	2001	All	All	1,014	902	2,730	1,357	10,259	10,259	429,720.2	502,987	209.9	0.1	.	2,730	1,357
65-74	All	2002	All	All	978	866	2,808	1,395	10,325	10,325	436,159.6	512,859	198.6	0.1	.	2,808	1,395
65-74	All	2003	All	All	998	867	2,790	1,387	10,502	10,502	440,649.3	519,381	196.8	0.1	.	2,790	1,387
65-74	All	2004	All	All	1,080	930	2,624	1,305	10,377	10,377	463,511.5	555,529	200.6	0.1	.	2,624	1,305
65-74	All	2005	All	All	1,021	897	2,834	1,407	10,722	10,722	491,175.9	588,338	182.6	0.1	.	2,834	1,407
65-74	All	2006	All	All	945	822	2,308	1,147	10,004	10,004	494,011.3	583,378	166.4	0.1	.	2,308	1,147
65-74	All	2007	All	All	862	762	2,342	1,166	9,501	9,501	483,614.2	568,431	157.6	0.1	.	2,342	1,166
65-74	All	2008	All	All	937	833	2,154	1,071	9,760	9,760	499,153.6	582,044	166.9	0.1	.	2,154	1,071
65-74	All	2009	All	All	889	769	2,202	1,091	9,381	9,381	515,122.2	605,785	149.3	0.1	.	2,202	1,091
65-74	All	2010	All	All	923	783	2,176	1,080	9,337	9,337	537,059.1	630,043	145.8	0.1	.	2,176	1,080
65-74	All	2011	All	All	1,014	844	2,296	1,140	9,777	9,777	576,117.9	685,809	146.5	0.1	.	2,296	1,140
65-74	All	2012	All	All	1,068	918	2,620	1,302	10,653	10,653	635,841.5	750,509	144.4	0.1	.	2,620	1,302
65-74	All	2013	All	All	994	851	2,582	1,284	11,288	11,288	687,697.0	808,601	123.7	0.1	.	2,582	1,284
65-74	All	2014	All	All	1,142	979	2,646	1,309	11,773	11,773	730,735.4	852,779	134.0	0.1	.	2,646	1,309
65-74	All	2015	All	All	977	862	1,236	613	11,728	11,728	758,654.9	891,153	113.6	0.1	.	1,236	613
65-74	All	2016	All	All	561	470	62	29	7,677	7,677	730,208.9	846,716	64.4	0.1	.	62	29
65-74	All	2017	All	All	306	273	2	1	4,200	4,200	408,652.9	821,161	66.8	0.1	.	2	1
75-84	All	2000	All	All	470	413	1,960	980	6,782	6,782	127,497.8	275,461	323.9	0.1	.	1,960	980
75-84	All	2001	All	All	982	882	3,846	1,917	14,229	14,229	256,665.1	300,582	343.6	0.1	.	3,846	1,917
75-84	All	2002	All	All	945	854	4,044	2,010	14,903	14,903	266,035.4	312,660	321.0	0.1	.	4,044	2,010

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category	Sex	Year	Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized SCD COD		Members with SCD	
					(SCD) Codes	Members with SCD Codes	Record	Record	Record	Record	Table	Table	Member-Years	Eligible Members	Member-Years	Deaths	Deaths	Death Rate	Codes	Codes	Codes	Codes
75-84	All	2003	All	All	1,040	929	4,184	2,087	15,498	15,498	273,442.1	320,077	339.7	0.1	.	4,184	2,087					
75-84	All	2004	All	All	1,010	878	4,062	2,018	15,558	15,558	291,988.8	349,358	300.7	0.1	.	4,062	2,018					
75-84	All	2005	All	All	1,113	973	4,108	2,046	16,262	16,262	313,036.7	368,763	310.8	0.1	.	4,108	2,046					
75-84	All	2006	All	All	936	831	3,850	1,917	15,905	15,905	316,291.7	368,889	262.7	0.1	.	3,850	1,917					
75-84	All	2007	All	All	952	846	3,272	1,628	14,747	14,747	301,238.9	349,161	280.8	0.1	.	3,272	1,628					
75-84	All	2008	All	All	950	837	3,166	1,571	14,762	14,762	302,581.8	347,822	276.6	0.1	.	3,166	1,571					
75-84	All	2009	All	All	993	853	3,282	1,630	14,351	14,351	302,819.8	350,862	281.7	0.1	.	3,282	1,630					
75-84	All	2010	All	All	969	843	3,372	1,675	14,431	14,431	306,871.0	355,629	274.7	0.1	.	3,372	1,675					
75-84	All	2011	All	All	1,043	854	3,442	1,712	14,557	14,557	316,725.5	367,894	269.6	0.1	.	3,442	1,712					
75-84	All	2012	All	All	950	823	3,652	1,816	14,987	14,987	327,708.0	379,145	251.1	0.1	.	3,652	1,816					
75-84	All	2013	All	All	1,015	841	3,562	1,771	15,748	15,748	336,684.8	390,869	249.8	0.1	.	3,562	1,771					
75-84	All	2014	All	All	988	843	3,418	1,699	15,651	15,651	340,735.2	394,433	247.4	0.1	.	3,418	1,699					
75-84	All	2015	All	All	897	783	1,262	626	15,571	15,571	340,745.2	401,715	229.8	0.1	.	1,262	626					
75-84	All	2016	All	All	557	489	66	33	10,885	10,885	309,935.8	357,738	157.8	0.0	.	66	33					
75-84	All	2017	All	All	295	265	6	3	6,000	6,000	173,081.4	348,067	153.1	0.0	.	6	3					
85+	All	2000	All	All	299	267	1,626	812	6,005	6,005	39,010.4	86,336	684.4	0.0	.	1,626	812					
85+	All	2001	All	All	663	596	3,344	1,668	12,747	12,747	78,791.1	97,085	756.4	0.0	.	3,344	1,668					
85+	All	2002	All	All	655	592	3,432	1,707	13,478	13,478	82,342.5	102,000	718.9	0.0	.	3,432	1,707					
85+	All	2003	All	All	688	624	3,762	1,878	14,116	14,116	86,260.2	106,249	723.4	0.0	.	3,762	1,878					
85+	All	2004	All	All	676	581	3,824	1,906	14,352	14,352	93,708.6	118,478	620.0	0.0	.	3,824	1,906					
85+	All	2005	All	All	661	575	3,720	1,856	15,532	15,532	103,482.7	127,240	555.6	0.0	.	3,720	1,856					
85+	All	2006	All	All	627	566	3,492	1,744	15,423	15,423	108,298.5	132,439	522.6	0.0	.	3,492	1,744					
85+	All	2007	All	All	551	499	3,470	1,732	15,368	15,368	109,694.6	132,358	454.9	0.0	.	3,470	1,732					
85+	All	2008	All	All	583	523	3,368	1,673	15,822	15,822	114,460.6	137,187	456.9	0.0	.	3,368	1,673					
85+	All	2009	All	All	626	554	3,506	1,748	16,138	16,138	119,188.3	142,586	464.8	0.0	.	3,506	1,748					
85+	All	2010	All	All	705	598	3,788	1,887	16,864	16,864	124,200.8	148,272	481.5	0.0	.	3,788	1,887					
85+	All	2011	All	All	718	606	4,008	1,997	17,649	17,649	130,183.2	155,698	465.5	0.0	.	4,008	1,997					
85+	All	2012	All	All	681	606	4,202	2,093	18,385	18,385	136,653.1	162,343	443.5	0.0	.	4,202	2,093					
85+	All	2013	All	All	783	674	4,296	2,141	20,228	20,228	141,050.5	168,277	477.8	0.0	.	4,296	2,141					
85+	All	2014	All	All	673	587	3,884	1,937	19,976	19,976	142,225.4	168,830	412.7	0.0	.	3,884	1,937					
85+	All	2015	All	All	612	548	1,350	674	19,995	19,995	140,405.3	170,222	390.3	0.0	.	1,350	674					
85+	All	2016	All	All	419	378	58	29	14,858	14,858	124,478.2	146,162	303.7	0.0	.	58	29					
85+	All	2017	All	All	197	184	4	2	8,509	8,509	67,758.5	139,086	271.6	0.0	.	4	2					
All	F	2000	All	All	953	850	3,368	1,681	12,841	12,841	1,733,630.5	3,745,400	49.0	0.1	.	3,368	1,681					
All	M	2000	All	All	1,137	1,008	3,090	1,544	11,511	11,511	1,531,851.8	3,325,431	65.8	0.1	.	3,090	1,544					
All	F	2001	All	All	2,107	1,881	6,880	3,432	27,103	27,103	3,442,534.7	4,021,150	54.6	0.1	.	6,880	3,432					
All	M	2001	All	All	2,421	2,164	5,964	2,968	23,812	23,812	3,040,608.7	3,590,988	71.2	0.1	.	5,964	2,968					
All	F	2002	All	All	1,999	1,820	7,090	3,532	28,230	28,230	3,476,371.4	4,090,749	52.4	0.1	.	7,090	3,532					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category			Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and		Records of Death in		Members with Record of Death in		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized SCD COD		Members with SCD	
Years	Sex	Year			(SCD) Codes	with SCD Codes	Record	COD Record	Record	Table	Table	Member-Years	Eligible Members	Member-Years	Eligible Members	Years	Deaths	Death Rate	Codes	Codes	Codes	Codes
All	M	2002	All	All	2,584	2,290	6,330	3,140	24,986	24,986	3,070,504.7	3,653,024	74.6	0.1	.	6,330	3,140					
All	F	2003	All	All	2,093	1,895	7,330	3,657	29,225	29,225	3,467,145.7	4,093,147	54.7	0.1	.	7,330	3,657					
All	M	2003	All	All	2,741	2,399	6,602	3,286	25,513	25,513	3,058,720.8	3,645,352	78.4	0.1	.	6,602	3,286					
All	F	2004	All	All	2,225	1,917	7,234	3,604	29,531	29,531	3,626,632.2	4,358,320	52.9	0.1	.	7,234	3,604					
All	M	2004	All	All	2,783	2,413	6,300	3,131	25,620	25,620	3,194,051.6	3,867,745	75.5	0.1	.	6,300	3,131					
All	F	2005	All	All	2,225	1,985	7,168	3,575	30,932	30,932	3,885,176.6	4,676,687	51.1	0.1	.	7,168	3,575					
All	M	2005	All	All	2,885	2,505	6,586	3,273	26,973	26,973	3,422,380.0	4,153,431	73.2	0.1	.	6,586	3,273					
All	F	2006	All	All	2,023	1,820	6,508	3,244	30,048	30,048	3,995,822.7	4,680,320	45.5	0.1	.	6,508	3,244					
All	M	2006	All	All	2,544	2,234	6,046	3,007	26,091	26,091	3,532,470.9	4,164,176	63.2	0.1	.	6,046	3,007					
All	F	2007	All	All	1,873	1,697	6,120	3,054	29,070	29,070	4,001,162.6	4,664,665	42.4	0.1	.	6,120	3,054					
All	M	2007	All	All	2,436	2,151	5,744	2,850	25,172	25,172	3,548,081.0	4,160,228	60.6	0.1	.	5,744	2,850					
All	F	2008	All	All	1,919	1,747	5,862	2,912	29,411	29,411	4,052,641.0	4,748,304	43.1	0.1	.	5,862	2,912					
All	M	2008	All	All	2,518	2,208	5,408	2,686	25,326	25,326	3,596,476.0	4,239,114	61.4	0.1	.	5,408	2,686					
All	F	2009	All	All	2,040	1,791	6,206	3,092	29,304	29,304	4,117,085.7	4,811,557	43.5	0.1	.	6,206	3,092					
All	M	2009	All	All	2,549	2,196	5,562	2,756	24,947	24,947	3,630,415.1	4,279,461	60.5	0.1	.	5,562	2,756					
All	F	2010	All	All	2,072	1,801	6,162	3,066	29,352	29,352	4,218,318.0	4,910,750	42.7	0.1	.	6,162	3,066					
All	M	2010	All	All	2,620	2,238	5,842	2,902	25,133	25,133	3,700,014.3	4,345,374	60.5	0.1	.	5,842	2,902					
All	F	2011	All	All	2,128	1,833	6,570	3,270	30,306	30,306	4,323,540.1	5,015,224	42.4	0.1	.	6,570	3,270					
All	M	2011	All	All	2,719	2,273	5,948	2,957	25,920	25,920	3,797,166.9	4,439,438	59.9	0.1	.	5,948	2,957					
All	F	2012	All	All	2,113	1,871	6,786	3,379	31,507	31,507	4,394,360.3	5,051,941	42.6	0.1	.	6,786	3,379					
All	M	2012	All	All	2,763	2,380	6,528	3,243	27,197	27,197	3,869,058.6	4,475,602	61.5	0.1	.	6,528	3,243					
All	F	2013	All	All	2,127	1,823	6,838	3,407	32,905	32,905	4,395,345.2	5,074,204	41.5	0.1	.	6,838	3,407					
All	M	2013	All	All	2,695	2,294	6,514	3,237	28,674	28,674	3,883,250.5	4,505,064	59.1	0.1	.	6,514	3,237					
All	F	2014	All	All	2,185	1,924	6,514	3,245	33,361	33,361	4,496,695.3	5,222,592	42.8	0.1	.	6,514	3,245					
All	M	2014	All	All	2,659	2,269	6,290	3,120	28,641	28,641	3,977,089.9	4,667,232	57.1	0.1	.	6,290	3,120					
All	F	2015	All	All	2,030	1,792	2,964	1,478	33,484	33,484	4,659,689.2	5,397,787	38.5	0.1	.	2,964	1,478					
All	M	2015	All	All	2,392	2,109	2,728	1,353	28,634	28,634	4,125,061.8	4,837,919	51.1	0.1	.	2,728	1,353					
All	F	2016	All	All	839	734	112	55	20,473	20,473	3,946,765.6	4,611,176	18.6	0.0	.	112	55					
All	M	2016	All	All	1,395	1,207	132	65	19,446	19,446	3,656,092.1	4,317,998	33.0	0.1	.	132	65					
All	F	2017	All	All	448	398	4	2	11,233	11,233	2,071,128.6	4,325,660	19.2	0.0	.	4	2					
All	M	2017	All	All	693	625	10	5	10,777	10,777	1,908,073.0	4,023,416	32.8	0.1	.	10	5					
<45	F	2000	All	All	87	78	116	58	727	727	1,080,761.2	2,396,652	7.2	0.1	.	116	58					
<45	M	2000	All	All	177	157	162	81	1,023	1,023	992,833.9	2,209,351	15.8	0.2	.	162	81					
<45	F	2001	All	All	225	201	256	128	1,466	1,466	2,137,799.7	2,614,368	9.4	0.1	.	256	128					
<45	M	2001	All	All	372	333	296	148	2,103	2,103	1,965,777.2	2,423,688	16.9	0.2	.	296	148					
<45	F	2002	All	All	227	201	242	121	1,521	1,521	2,130,649.6	2,632,375	9.4	0.1	.	242	121					
<45	M	2002	All	All	390	354	358	178	2,275	2,275	1,963,582.1	2,442,600	18.0	0.2	.	358	178					
<45	F	2003	All	All	254	223	280	138	1,542	1,542	2,091,318.3	2,599,056	10.7	0.1	.	280	138					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category	Sex	Year	Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and COD		Records of Death in		Members with Record of Death in		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized		Members with SCD	
					(SCD) Codes	Members with SCD	Record	COD Record	Record	COD Record	Death Table	Death Table	Eligible Member-Years	Eligible Members	Member-Years	Deaths	Standardized Death Rate	SCD Codes	COD Codes			
<45	M	2003	All	All	370	334	308	153	2,018	2,018	1,925,676.8	2,403,938	17.3	0.2	.	308	153					
<45	F	2004	All	All	284	250	214	107	1,563	1,563	2,155,321.2	2,715,255	11.6	0.2	.	214	107					
<45	M	2004	All	All	447	383	274	137	2,061	2,061	1,980,067.9	2,502,247	19.3	0.2	.	274	137					
<45	F	2005	All	All	275	251	262	130	1,491	1,491	2,287,699.5	2,893,988	11.0	0.2	.	262	130					
<45	M	2005	All	All	429	388	286	143	2,105	2,105	2,100,357.3	2,667,845	18.5	0.2	.	286	143					
<45	F	2006	All	All	291	269	214	107	1,426	1,426	2,358,068.9	2,903,840	11.4	0.2	.	214	107					
<45	M	2006	All	All	354	318	274	137	1,882	1,882	2,168,631.5	2,676,725	14.7	0.2	.	274	137					
<45	F	2007	All	All	230	202	198	98	1,406	1,406	2,355,718.1	2,894,205	8.6	0.1	.	198	98					
<45	M	2007	All	All	334	307	252	125	1,913	1,913	2,173,079.4	2,671,059	14.1	0.2	.	252	125					
<45	F	2008	All	All	223	204	158	79	1,282	1,282	2,374,122.5	2,937,544	8.6	0.2	.	158	79					
<45	M	2008	All	All	345	319	216	108	1,759	1,759	2,191,009.5	2,711,424	14.6	0.2	.	216	108					
<45	F	2009	All	All	257	224	216	108	1,357	1,357	2,405,712.3	2,954,419	9.3	0.2	.	216	108					
<45	M	2009	All	All	329	286	232	115	1,680	1,680	2,202,210.8	2,713,705	13.0	0.2	.	232	115					
<45	F	2010	All	All	236	209	168	83	1,307	1,307	2,464,819.5	3,005,342	8.5	0.2	.	168	83					
<45	M	2010	All	All	349	307	216	106	1,637	1,637	2,239,726.7	2,741,892	13.7	0.2	.	216	106					
<45	F	2011	All	All	255	223	186	91	1,264	1,264	2,514,107.1	3,050,258	8.9	0.2	.	186	91					
<45	M	2011	All	All	310	279	208	103	1,606	1,606	2,290,128.1	2,789,539	12.2	0.2	.	208	103					
<45	F	2012	All	All	241	216	174	86	1,340	1,340	2,539,938.2	3,052,212	8.5	0.2	.	174	86					
<45	M	2012	All	All	344	309	240	119	1,674	1,674	2,322,342.5	2,796,101	13.3	0.2	.	240	119					
<45	F	2013	All	All	240	218	188	94	1,245	1,245	2,514,879.4	3,037,621	8.7	0.2	.	188	94					
<45	M	2013	All	All	312	279	210	103	1,661	1,661	2,308,872.5	2,788,356	12.1	0.2	.	210	103					
<45	F	2014	All	All	240	223	214	107	1,299	1,299	2,579,600.7	3,108,031	8.6	0.2	.	214	107					
<45	M	2014	All	All	300	278	218	108	1,698	1,698	2,365,388.4	2,874,449	11.8	0.2	.	218	108					
<45	F	2015	All	All	270	230	150	75	1,400	1,400	2,700,928.9	3,239,095	8.5	0.2	.	150	75					
<45	M	2015	All	All	283	261	136	67	1,788	1,788	2,470,963.9	2,997,121	10.6	0.1	.	136	67					
<45	F	2016	All	All	56	48	2	1	442	442	2,116,349.3	2,602,784	2.3	0.1	.	2	1					
<45	M	2016	All	All	94	89	2	1	709	709	2,058,558.2	2,551,698	4.3	0.1	.	2	1					
<45	F	2017	All	All	25	22	0	0	221	221	1,092,466.8	2,375,185	2.0	0.1	.	0	0					
<45	M	2017	All	All	37	37	0	0	324	324	1,059,826.3	2,316,190	3.5	0.1	.	0	0					
45-54	F	2000	All	All	73	69	170	85	750	750	255,394.0	561,436	27.0	0.1	.	170	85					
45-54	M	2000	All	All	138	126	232	116	1,027	1,027	228,239.7	502,599	55.2	0.1	.	232	116					
45-54	F	2001	All	All	221	196	364	182	1,639	1,639	507,735.0	616,631	38.6	0.1	.	364	182					
45-54	M	2001	All	All	309	274	444	221	2,195	2,195	453,954.9	555,216	60.4	0.1	.	444	221					
45-54	F	2002	All	All	195	179	374	186	1,688	1,688	513,978.7	632,245	34.8	0.1	.	374	186					
45-54	M	2002	All	All	375	337	452	225	2,299	2,299	459,227.3	570,112	73.4	0.1	.	452	225					
45-54	F	2003	All	All	214	195	416	206	1,735	1,735	517,359.2	636,311	37.7	0.1	.	416	206					
45-54	M	2003	All	All	405	356	504	252	2,476	2,476	462,992.2	574,030	76.9	0.1	.	504	252					
45-54	F	2004	All	All	259	221	396	197	1,848	1,848	549,661.4	693,435	40.2	0.1	.	396	197					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category			Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and Corresponding COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized		Members with SCD	
Years	Sex	Year			(SCD) Codes	with SCD Codes	Record	Record	COD Record	Death Table	Death Table	Member-Years	Eligible Members	Member-Years	Eligible Members	Member-Years	Deaths	Standardized Death Rate	SCD Codes	COD Codes	SCD Codes	COD Codes
45-54	M	2004	All	All	383	339	448	223	2,347	2,347	490,137.5	621,111	69.2	0.1	.	448	223					
45-54	F	2005	All	All	256	230	416	206	1,938	1,938	597,781.7	756,978	38.5	0.1	.	416	206					
45-54	M	2005	All	All	430	370	508	254	2,519	2,519	530,159.3	675,148	69.8	0.1	.	508	254					
45-54	F	2006	All	All	229	207	380	187	1,867	1,867	613,986.6	751,743	33.7	0.1	.	380	187					
45-54	M	2006	All	All	358	312	446	223	2,401	2,401	545,536.6	672,456	57.2	0.1	.	446	223					
45-54	F	2007	All	All	202	186	306	153	1,695	1,695	618,852.1	753,503	30.1	0.1	.	306	153					
45-54	M	2007	All	All	357	316	478	235	2,327	2,327	550,528.4	675,301	57.4	0.1	.	478	235					
45-54	F	2008	All	All	245	213	320	158	1,784	1,784	623,417.7	763,509	34.2	0.1	.	320	158					
45-54	M	2008	All	All	341	303	406	202	2,301	2,301	555,953.5	685,297	54.5	0.1	.	406	202					
45-54	F	2009	All	All	236	202	374	185	1,811	1,811	626,816.9	770,086	32.2	0.1	.	374	185					
45-54	M	2009	All	All	349	310	462	229	2,271	2,271	555,656.9	689,415	55.8	0.1	.	462	229					
45-54	F	2010	All	All	271	235	316	158	1,669	1,669	631,377.8	775,255	37.2	0.1	.	316	158					
45-54	M	2010	All	All	354	311	428	212	2,113	2,113	557,163.0	691,122	55.8	0.1	.	428	212					
45-54	F	2011	All	All	236	208	340	170	1,770	1,770	634,619.5	775,898	32.8	0.1	.	340	170					
45-54	M	2011	All	All	390	326	414	206	2,153	2,153	560,063.0	690,575	58.2	0.2	.	414	206					
45-54	F	2012	All	All	233	202	342	171	1,746	1,746	629,675.6	763,771	32.1	0.1	.	342	171					
45-54	M	2012	All	All	351	308	414	207	2,203	2,203	557,490.0	681,069	55.2	0.1	.	414	207					
45-54	F	2013	All	All	254	211	332	165	1,684	1,684	618,144.8	755,276	34.1	0.1	.	332	165					
45-54	M	2013	All	All	320	273	410	204	2,010	2,010	550,758.2	677,660	49.6	0.1	.	410	204					
45-54	F	2014	All	All	258	231	292	145	1,717	1,717	619,250.4	778,289	37.3	0.1	.	292	145					
45-54	M	2014	All	All	309	257	394	197	2,045	2,045	554,544.6	703,114	46.3	0.1	.	394	197					
45-54	F	2015	All	All	216	196	220	109	1,710	1,710	631,364.9	790,242	31.0	0.1	.	220	109					
45-54	M	2015	All	All	289	259	340	169	1,972	1,972	567,175.2	717,070	45.7	0.1	.	340	169					
45-54	F	2016	All	All	71	64	2	1	617	617	587,967.0	734,596	10.9	0.1	.	2	1					
45-54	M	2016	All	All	113	96	16	8	834	834	543,242.2	683,736	17.7	0.1	.	16	8					
45-54	F	2017	All	All	29	24	0	0	297	297	303,182.9	659,718	7.9	0.1	.	0	0					
45-54	M	2017	All	All	49	44	2	1	394	394	278,272.7	611,640	15.8	0.1	.	2	1					
55-64	F	2000	All	All	160	140	354	176	1,347	1,347	172,724.7	375,655	81.1	0.1	.	354	176					
55-64	M	2000	All	All	222	201	502	250	1,839	1,839	152,393.4	332,185	131.9	0.1	.	502	250					
55-64	F	2001	All	All	278	245	684	340	2,752	2,752	347,548.2	417,640	70.5	0.1	.	684	340					
55-64	M	2001	All	All	464	416	880	439	3,525	3,525	305,052.2	369,447	136.4	0.1	.	880	439					
55-64	F	2002	All	All	285	257	752	374	2,884	2,884	370,221.7	445,468	69.4	0.1	.	752	374					
55-64	M	2002	All	All	533	470	958	476	3,843	3,843	324,567.1	393,900	144.8	0.1	.	958	476					
55-64	F	2003	All	All	290	264	712	356	3,040	3,040	388,213.0	465,729	68.0	0.1	.	712	356					
55-64	M	2003	All	All	575	502	976	486	3,811	3,811	339,854.1	411,343	147.7	0.1	.	976	486					
55-64	F	2004	All	All	321	277	734	366	3,060	3,060	423,803.1	521,473	65.4	0.1	.	734	366					
55-64	M	2004	All	All	548	471	958	476	3,985	3,985	372,392.2	461,700	126.5	0.1	.	958	476					
55-64	F	2005	All	All	328	291	690	345	3,215	3,215	469,383.5	578,893	62.0	0.1	.	690	345					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category			Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and Corresponding COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized		Members with SCD	
Years	Sex	Year			(SCD) Codes	with SCD Codes	Record	Record	Record	Record	Table	Table	Member-Years	Eligible Members	Member-Years	Deaths	Deaths	Death Rate	SCD Codes	COD Codes	Codes	Codes
55-64	M	2005	All	All	597	515	930	461	4,121	4,121	414,310.9	512,529	124.3	0.1	.	930	461					
55-64	F	2006	All	All	293	263	680	340	3,241	3,241	488,581.2	583,363	53.8	0.1	.	680	340					
55-64	M	2006	All	All	534	466	910	449	3,990	3,990	434,659.1	520,343	107.2	0.1	.	910	449					
55-64	F	2007	All	All	267	247	648	321	3,198	3,198	506,395.4	599,950	48.8	0.1	.	648	321					
55-64	M	2007	All	All	554	483	898	446	4,087	4,087	449,900.8	535,822	107.4	0.1	.	898	446					
55-64	F	2008	All	All	296	272	620	308	3,206	3,206	523,700.6	621,959	51.9	0.1	.	620	308					
55-64	M	2008	All	All	517	451	862	428	4,061	4,061	464,510.2	555,253	97.1	0.1	.	862	428					
55-64	F	2009	All	All	354	309	642	319	3,183	3,183	543,085.3	647,933	56.9	0.1	.	642	319					
55-64	M	2009	All	All	556	480	852	423	4,079	4,079	476,689.9	574,124	100.7	0.1	.	852	423					
55-64	F	2010	All	All	308	272	610	304	3,077	3,077	565,237.1	672,592	48.1	0.1	.	610	304					
55-64	M	2010	All	All	577	481	930	463	4,050	4,050	491,716.0	591,359	97.8	0.1	.	930	463					
55-64	F	2011	All	All	324	287	720	358	3,341	3,341	588,609.2	700,600	48.8	0.1	.	720	358					
55-64	M	2011	All	All	557	479	904	450	4,109	4,109	510,019.7	612,006	93.9	0.1	.	904	450					
55-64	F	2012	All	All	387	329	690	341	3,416	3,416	596,928.9	709,994	55.1	0.1	.	690	341					
55-64	M	2012	All	All	621	540	980	487	4,300	4,300	516,725.0	618,962	104.5	0.1	.	980	487					
55-64	F	2013	All	All	366	316	772	384	3,457	3,457	599,356.4	714,068	52.7	0.1	.	772	384					
55-64	M	2013	All	All	538	454	1,000	498	4,258	4,258	521,048.9	625,259	87.1	0.1	.	1,000	498					
55-64	F	2014	All	All	381	332	738	366	3,534	3,534	609,383.5	747,915	54.5	0.1	.	738	366					
55-64	M	2014	All	All	553	463	1,000	497	4,309	4,309	531,844.8	657,095	87.1	0.1	.	1,000	497					
55-64	F	2015	All	All	347	309	486	242	3,447	3,447	625,932.1	764,065	49.4	0.1	.	486	242					
55-64	M	2015	All	All	531	453	512	256	4,507	4,507	548,515.7	674,720	82.6	0.1	.	512	256					
55-64	F	2016	All	All	108	89	12	6	1,718	1,718	600,903.4	734,067	14.8	0.1	.	12	6					
55-64	M	2016	All	All	255	218	24	12	2,179	2,179	531,175.0	652,763	41.0	0.1	.	24	12					
55-64	F	2017	All	All	80	67	0	0	908	908	317,606.2	677,842	21.1	0.1	.	0	0					
55-64	M	2017	All	All	123	107	0	0	1,157	1,157	278,347.8	600,013	38.4	0.1	.	0	0					
65-74	F	2000	All	All	189	166	606	302	2,245	2,245	119,437.5	257,853	139.0	0.1	.	606	302					
65-74	M	2000	All	All	275	241	730	365	2,607	2,607	97,136.4	210,237	248.1	0.1	.	730	365					
65-74	F	2001	All	All	430	386	1,292	643	4,840	4,840	237,284.4	276,911	162.7	0.1	.	1,292	643					
65-74	M	2001	All	All	584	516	1,438	714	5,419	5,419	192,435.8	226,076	268.1	0.1	.	1,438	714					
65-74	F	2002	All	All	403	359	1,310	652	4,838	4,838	241,336.9	282,340	148.8	0.1	.	1,310	652					
65-74	M	2002	All	All	575	507	1,498	743	5,487	5,487	194,822.7	230,519	260.2	0.1	.	1,498	743					
65-74	F	2003	All	All	391	348	1,262	630	4,964	4,964	243,355.4	285,560	143.0	0.1	.	1,262	630					
65-74	M	2003	All	All	607	519	1,528	757	5,538	5,538	197,293.9	233,821	263.1	0.1	.	1,528	757					
65-74	F	2004	All	All	437	375	1,254	626	4,945	4,945	255,556.2	304,936	146.7	0.1	.	1,254	626					
65-74	M	2004	All	All	643	555	1,370	679	5,432	5,432	207,955.3	250,593	266.9	0.1	.	1,370	679					
65-74	F	2005	All	All	409	365	1,210	602	5,045	5,045	269,889.5	321,815	135.2	0.1	.	1,210	602					
65-74	M	2005	All	All	612	532	1,624	805	5,677	5,677	221,286.4	266,523	240.4	0.1	.	1,624	805					
65-74	F	2006	All	All	381	336	1,020	508	4,707	4,707	270,691.8	318,259	124.1	0.1	.	1,020	508					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category			Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized SCD COD		Members with SCD	
Years	Sex	Year			SCD Codes	Members with SCD	Record	Record	Record	Record	Table	Table	Member-Years	Eligible Members	Member-Years	Eligible Members	Member-Years	Deaths	Death Rate	SCD Codes	COD Codes	Member-Years
65-74	M	2006	All	All	564	486	1,288	639	5,297	5,297	223,319.4	265,119	217.6	0.1	.	1,288	639					
65-74	F	2007	All	All	366	325	1,034	516	4,515	4,515	264,387.5	309,472	122.9	0.1	.	1,034	516					
65-74	M	2007	All	All	496	437	1,308	650	4,986	4,986	219,226.7	258,959	199.3	0.1	.	1,308	650					
65-74	F	2008	All	All	366	338	950	473	4,609	4,609	272,685.5	316,469	124.0	0.1	.	950	473					
65-74	M	2008	All	All	571	495	1,204	598	5,151	5,151	226,468.1	265,575	218.6	0.1	.	1,204	598					
65-74	F	2009	All	All	341	303	1,020	507	4,541	4,541	280,834.9	328,997	107.9	0.1	.	1,020	507					
65-74	M	2009	All	All	548	466	1,182	584	4,840	4,840	234,287.3	276,788	198.9	0.1	.	1,182	584					
65-74	F	2010	All	All	359	303	980	486	4,449	4,449	292,102.2	341,460	103.7	0.1	.	980	486					
65-74	M	2010	All	All	564	480	1,196	594	4,888	4,888	244,956.9	288,583	196.0	0.1	.	1,196	594					
65-74	F	2011	All	All	384	324	1,038	517	4,560	4,560	312,986.6	371,236	103.5	0.1	.	1,038	517					
65-74	M	2011	All	All	630	520	1,258	623	5,217	5,217	263,131.3	314,573	197.6	0.1	.	1,258	623					
65-74	F	2012	All	All	410	366	1,170	585	5,099	5,099	345,312.2	406,514	106.0	0.1	.	1,170	585					
65-74	M	2012	All	All	658	552	1,450	717	5,554	5,554	290,529.3	343,995	190.0	0.1	.	1,450	717					
65-74	F	2013	All	All	356	309	1,130	563	5,258	5,258	373,758.5	438,193	82.7	0.1	.	1,130	563					
65-74	M	2013	All	All	638	542	1,452	721	6,030	6,030	313,938.5	370,408	172.6	0.1	.	1,452	721					
65-74	F	2014	All	All	453	390	1,138	566	5,575	5,575	397,355.3	462,563	98.1	0.1	.	1,138	566					
65-74	M	2014	All	All	689	589	1,508	743	6,198	6,198	333,380.1	390,216	176.7	0.1	.	1,508	743					
65-74	F	2015	All	All	394	352	550	275	5,630	5,630	413,028.1	483,243	85.2	0.1	.	550	275					
65-74	M	2015	All	All	583	510	686	338	6,098	6,098	345,626.8	407,910	147.6	0.1	.	686	338					
65-74	F	2016	All	All	177	156	34	16	3,540	3,540	391,317.0	452,219	39.9	0.0	.	34	16					
65-74	M	2016	All	All	384	314	28	13	4,137	4,137	338,891.8	394,497	92.7	0.1	.	28	13					
65-74	F	2017	All	All	108	95	2	1	1,862	1,862	219,702.2	439,966	43.2	0.1	.	2	1					
65-74	M	2017	All	All	198	178	0	0	2,338	2,338	188,950.7	381,195	94.2	0.1	.	0	0					
75-84	F	2000	All	All	233	208	1,004	502	3,634	3,634	77,579.9	167,411	268.1	0.1	.	1,004	502					
75-84	M	2000	All	All	237	205	956	478	3,148	3,148	49,918.0	108,050	410.7	0.1	.	956	478					
75-84	F	2001	All	All	518	461	2,060	1,029	7,694	7,694	156,294.1	182,441	295.0	0.1	.	2,060	1,029					
75-84	M	2001	All	All	464	421	1,786	888	6,535	6,535	100,371.0	118,141	419.4	0.1	.	1,786	888					
75-84	F	2002	All	All	466	433	2,080	1,036	8,115	8,115	161,884.8	189,741	267.5	0.1	.	2,080	1,036					
75-84	M	2002	All	All	479	421	1,964	974	6,788	6,788	104,150.6	122,919	404.2	0.1	.	1,964	974					
75-84	F	2003	All	All	514	471	2,172	1,086	8,341	8,341	166,153.3	193,858	283.5	0.1	.	2,172	1,086					
75-84	M	2003	All	All	526	458	2,012	1,001	7,157	7,157	107,288.8	126,219	426.9	0.1	.	2,012	1,001					
75-84	F	2004	All	All	476	412	2,050	1,020	8,440	8,440	176,729.6	210,446	233.1	0.0	.	2,050	1,020					
75-84	M	2004	All	All	534	466	2,012	998	7,118	7,118	115,259.2	138,912	404.3	0.1	.	2,012	998					
75-84	F	2005	All	All	512	460	2,126	1,061	8,744	8,744	188,428.5	220,979	244.1	0.1	.	2,126	1,061					
75-84	M	2005	All	All	601	513	1,982	985	7,518	7,518	124,608.2	147,784	411.7	0.1	.	1,982	985					
75-84	F	2006	All	All	445	394	1,944	968	8,560	8,560	189,562.8	220,244	207.8	0.0	.	1,944	968					
75-84	M	2006	All	All	491	437	1,906	949	7,345	7,345	126,728.9	148,645	344.8	0.1	.	1,906	949					
75-84	F	2007	All	All	441	399	1,700	850	7,956	7,956	180,178.9	208,173	221.4	0.1	.	1,700	850					

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Age Category			Race	Hispanic	Sudden Cardiac Death		Records of Death and a Corresponding Cause of Death (COD)		Members with Record of Death and COD Record		Records of Death in Death Table		Members with Record of Death in Death Table		Rate of SCD per 100,000		Rate of SCD among all		Age Standardized SCD COD		Members with SCD	
Years	Sex	Year			SCD Codes	Members with SCD Codes	Record	Record	Record	Record	Table	Table	Member-Years	Eligible Members	Member-Years	Eligible Members	Member-Years	Deaths	Death Rate	SCD Codes	COD Codes	Member-Years
75-84	M	2007	All	All	511	447	1,572	778	6,791	6,791	121,060.0	140,988	369.2	0.1	.	1,572	778					
75-84	F	2008	All	All	428	389	1,628	807	7,943	7,943	180,099.2	206,458	216.0	0.0	.	1,628	807					
75-84	M	2008	All	All	522	448	1,538	764	6,819	6,819	122,482.6	141,364	365.8	0.1	.	1,538	764					
75-84	F	2009	All	All	454	397	1,706	851	7,702	7,702	179,114.6	207,212	221.6	0.1	.	1,706	851					
75-84	M	2009	All	All	539	456	1,576	779	6,649	6,649	123,705.2	143,650	368.6	0.1	.	1,576	779					
75-84	F	2010	All	All	478	419	1,670	832	7,704	7,704	180,268.3	208,540	232.4	0.1	.	1,670	832					
75-84	M	2010	All	All	491	424	1,702	843	6,727	6,727	126,602.7	147,089	334.9	0.1	.	1,702	843					
75-84	F	2011	All	All	495	417	1,728	862	7,799	7,799	184,951.2	214,480	225.5	0.1	.	1,728	862					
75-84	M	2011	All	All	548	437	1,714	850	6,758	6,758	131,774.3	153,414	331.6	0.1	.	1,714	850					
75-84	F	2012	All	All	436	390	1,864	927	7,991	7,991	190,305.5	219,855	204.9	0.0	.	1,864	927					
75-84	M	2012	All	All	514	433	1,788	889	6,996	6,996	137,402.5	159,290	315.1	0.1	.	1,788	889					
75-84	F	2013	All	All	456	380	1,794	891	8,207	8,207	194,490.2	225,326	195.4	0.0	.	1,794	891					
75-84	M	2013	All	All	559	461	1,768	880	7,541	7,541	142,194.6	165,543	324.2	0.1	.	1,768	880					
75-84	F	2014	All	All	445	390	1,698	845	8,201	8,201	195,966.9	226,464	199.0	0.0	.	1,698	845					
75-84	M	2014	All	All	543	453	1,720	854	7,450	7,450	144,768.3	167,969	312.9	0.1	.	1,720	854					
75-84	F	2015	All	All	443	385	674	336	8,277	8,277	195,356.5	229,547	197.1	0.0	.	674	336					
75-84	M	2015	All	All	454	398	588	290	7,294	7,294	145,388.7	172,168	273.7	0.1	.	588	290					
75-84	F	2016	All	All	217	188	30	15	5,239	5,239	171,372.4	197,280	109.7	0.0	.	30	15					
75-84	M	2016	All	All	340	301	36	18	5,646	5,646	138,563.3	160,458	217.2	0.1	.	36	18					
75-84	F	2017	All	All	106	99	0	0	2,931	2,931	95,456.9	191,898	103.7	0.0	.	0	0					
75-84	M	2017	All	All	189	166	6	3	3,069	3,069	77,624.4	156,169	213.9	0.1	.	6	3					
85+	F	2000	All	All	211	189	1,118	558	4,138	4,138	27,713.0	61,107	682.0	0.0	.	1,118	558					
85+	M	2000	All	All	88	78	508	254	1,867	1,867	11,297.4	25,229	690.4	0.0	.	508	254					
85+	F	2001	All	All	435	392	2,224	1,110	8,712	8,712	55,835.2	68,364	702.1	0.0	.	2,224	1,110					
85+	M	2001	All	All	228	204	1,120	558	4,035	4,035	22,955.9	28,721	888.7	0.1	.	1,120	558					
85+	F	2002	All	All	423	391	2,332	1,163	9,184	9,184	58,256.6	71,578	671.2	0.0	.	2,332	1,163					
85+	M	2002	All	All	232	201	1,100	544	4,294	4,294	24,085.9	30,422	834.5	0.0	.	1,100	544					
85+	F	2003	All	All	430	394	2,488	1,241	9,603	9,603	60,710.0	74,336	649.0	0.0	.	2,488	1,241					
85+	M	2003	All	All	258	230	1,274	637	4,513	4,513	25,550.3	31,913	900.2	0.1	.	1,274	637					
85+	F	2004	All	All	448	382	2,586	1,288	9,675	9,675	65,522.9	82,223	583.0	0.0	.	2,586	1,288					
85+	M	2004	All	All	228	199	1,238	618	4,677	4,677	28,185.7	36,255	706.0	0.0	.	1,238	618					
85+	F	2005	All	All	445	388	2,464	1,231	10,499	10,499	71,913.9	87,754	539.5	0.0	.	2,464	1,231					
85+	M	2005	All	All	216	187	1,256	625	5,033	5,033	31,568.8	39,486	592.4	0.0	.	1,256	625					
85+	F	2006	All	All	384	351	2,270	1,134	10,247	10,247	74,824.2	90,863	469.1	0.0	.	2,270	1,134					
85+	M	2006	All	All	243	215	1,222	610	5,176	5,176	33,474.3	41,576	642.3	0.0	.	1,222	610					
85+	F	2007	All	All	367	338	2,234	1,116	10,300	10,300	75,529.8	90,702	447.5	0.0	.	2,234	1,116					
85+	M	2007	All	All	184	161	1,236	616	5,068	5,068	34,164.8	41,656	471.2	0.0	.	1,236	616					
85+	F	2008	All	All	361	331	2,186	1,087	10,587	10,587	78,527.5	93,667	421.5	0.0	.	2,186	1,087					

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), First Algorithm

Age Category			Race	Hispanic	Sudden Cardiac Death (SCD)	Members with SCD	Records of Death and a Corresponding Cause of Death (COD) Record	Members with Record of Death and Corresponding COD Record	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	Rate of SCD per 100,000 Member-Years	Rate of SCD among all Deaths	Age Standardized Death Rate	SCD COD Codes	Members with SCD COD Codes
(Years)	Sex	Year			Codes	Codes	Record	COD Record	Table	Table	Member-Years	Members	Years	Deaths	Standardized	Codes	Codes
85+	M	2008	All	All	222	192	1,182	586	5,235	5,235	35,933.1	43,520	534.3	0.0	.	1,182	586
85+	F	2009	All	All	398	356	2,248	1,122	10,710	10,710	81,434.6	96,935	437.2	0.0	.	2,248	1,122
85+	M	2009	All	All	228	198	1,258	626	5,428	5,428	37,753.6	45,651	524.5	0.0	.	1,258	626
85+	F	2010	All	All	420	363	2,418	1,203	11,146	11,146	84,441.0	100,334	429.9	0.0	.	2,418	1,203
85+	M	2010	All	All	285	235	1,370	684	5,718	5,718	39,759.8	47,938	591.0	0.0	.	1,370	684
85+	F	2011	All	All	434	374	2,558	1,272	11,572	11,572	88,205.7	104,823	424.0	0.0	.	2,558	1,272
85+	M	2011	All	All	284	232	1,450	725	6,077	6,077	41,977.5	50,875	552.7	0.0	.	1,450	725
85+	F	2012	All	All	406	368	2,546	1,269	11,915	11,915	92,146.9	108,812	399.4	0.0	.	2,546	1,269
85+	M	2012	All	All	275	238	1,656	824	6,470	6,470	44,506.2	53,531	534.8	0.0	.	1,656	824
85+	F	2013	All	All	455	389	2,622	1,310	13,054	13,054	94,665.2	112,244	410.9	0.0	.	2,622	1,310
85+	M	2013	All	All	328	285	1,674	831	7,174	7,174	46,385.4	56,033	614.4	0.0	.	1,674	831
85+	F	2014	All	All	408	358	2,434	1,216	13,035	13,035	95,101.8	112,218	376.4	0.0	.	2,434	1,216
85+	M	2014	All	All	265	229	1,450	721	6,941	6,941	47,123.6	56,612	486.0	0.0	.	1,450	721
85+	F	2015	All	All	360	320	884	441	13,020	13,020	93,053.1	112,023	343.9	0.0	.	884	441
85+	M	2015	All	All	252	228	466	233	6,975	6,975	47,352.2	58,199	481.5	0.0	.	466	233
85+	F	2016	All	All	210	189	32	16	8,917	8,917	78,839.2	91,760	239.7	0.0	.	32	16
85+	M	2016	All	All	209	189	26	13	5,941	5,941	45,639.0	54,402	414.1	0.0	.	26	13
85+	F	2017	All	All	100	91	2	1	5,014	5,014	42,709.9	87,291	213.1	0.0	.	2	1
85+	M	2017	All	All	97	93	2	1	3,495	3,495	25,048.6	51,795	371.3	0.0	.	2	1
All	All	All	American Indian/Alaskan Native	All	301	266	716	354	3,708	3,708	690,475.0	111,257	38.5	0.1	.	716	354
All	All	All	Asian	All	3,414	2,985	10,966	5,454	42,422	42,422	11,575,696.2	1,664,660	25.8	0.1	.	10,966	5,454
All	All	All	Black/African American	All	12,156	10,968	23,894	11,884	95,701	95,701	12,651,408.7	1,960,046	86.7	0.1	.	23,894	11,884
All	All	All	Native Hawaiian/Pacific	All	732	590	2,344	1,162	6,333	6,333	1,523,448.1	212,529	38.7	0.1	.	2,344	1,162
All	All	All	Unknown	All	12,623	10,857	21,558	10,734	135,667	135,667	38,430,210.1	11,188,504	28.3	0.1	.	21,558	10,734
All	All	All	White	All	46,707	40,876	131,862	65,620	648,858	648,858	63,974,175.1	9,575,649	63.9	0.1	.	131,862	65,620
All	All	All	All	No	39,886	34,620	78,100	38,848	421,413	421,413	37,119,593.6	6,021,371	93.3	0.1	.	78,100	38,848
All	All	All	All	Unknown	32,789	29,009	102,156	50,839	467,681	467,681	79,109,298.1	16,744,922	36.7	0.1	.	102,156	50,839
All	All	All	All	Yes	3,258	2,913	11,084	5,521	43,595	43,595	12,616,521.6	1,946,352	23.1	0.1	.	11,084	5,521

Table 7a. Number of Sudden Cardiac Death (SCD) Cause of Death (COD) Codes, by Source

Source	Aggregate
N: National Death Index	8,614
S: State Death Files	181,362
L: Other, locally defined	792
T: Tumor Data	572
Total	191,340

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding	Record of					Death in	Record of Death	Eligible Member-		
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
All	All	All	All	All	48,996	45,596	619,689	619,689	119,695,995	22,669,579	38.1	0.1	37.1	48,996	45,596
<45	All	All	All	All	1,557	1,469	33,771	33,771	71,584,388.4	16,557,069	2.1	0.0	.	1,557	1,469
45-54	All	All	All	All	3,741	3,478	40,402	40,402	17,573,364.3	4,828,989	19.8	0.1	.	3,741	3,478
55-64	All	All	All	All	6,305	5,872	72,541	72,541	15,090,028.0	3,823,496	38.9	0.1	.	6,305	5,872
65-74	All	All	All	All	8,435	7,837	106,236	106,236	8,779,769.4	2,093,463	89.3	0.1	.	8,435	7,837
75-84	All	All	All	All	12,250	11,449	165,027	165,027	4,844,386.3	1,087,314	236.3	0.1	.	12,250	11,449
85+	All	All	All	All	16,708	15,491	201,712	201,712	1,822,686.9	483,155	849.9	0.1	.	16,708	15,491
All	F	All	All	All	30,074	27,901	334,923	334,923	63,527,854.9	11,717,031	43.9	0.1	.	30,074	27,901
All	M	All	All	All	18,922	17,695	284,766	284,766	56,168,140.5	10,952,548	31.5	0.1	.	18,922	17,695
<45	F	All	All	All	641	608	13,547	13,547	37,298,766.2	8,457,488	1.6	0.0	.	641	608
<45	M	All	All	All	916	861	20,224	20,224	34,285,622.2	8,099,581	2.5	0.0	.	916	861
45-54	F	All	All	All	1,456	1,358	17,053	17,053	9,279,779.5	2,515,068	14.6	0.1	.	1,456	1,358
45-54	M	All	All	All	2,285	2,120	23,349	23,349	8,293,584.8	2,313,921	25.6	0.1	.	2,285	2,120
55-64	F	All	All	All	2,621	2,447	31,004	31,004	8,044,177.1	2,009,768	30.4	0.1	.	2,621	2,447
55-64	M	All	All	All	3,684	3,425	41,537	41,537	7,045,850.9	1,813,728	48.6	0.1	.	3,684	3,425
65-74	F	All	All	All	4,152	3,851	49,652	49,652	4,800,065.9	1,125,272	80.2	0.1	.	4,152	3,851
65-74	M	All	All	All	4,283	3,986	56,584	56,584	3,979,703.6	968,191	100.2	0.1	.	4,283	3,986
75-84	F	All	All	All	7,785	7,258	88,372	88,372	2,860,834.6	631,852	253.7	0.1	.	7,785	7,258
75-84	M	All	All	All	4,465	4,191	76,655	76,655	1,983,551.6	455,462	211.3	0.1	.	4,465	4,191
85+	F	All	All	All	13,419	12,379	135,295	135,295	1,243,647.4	319,486	995.4	0.1	.	13,419	12,379
85+	M	All	All	All	3,289	3,112	66,417	66,417	579,039.5	163,669	537.4	0.0	.	3,289	3,112
All	All	2000	All	All	841	804	15,875	15,875	3,172,801.2	6,866,205	25.3	0.1	28.6	841	804
All	All	2001	All	All	1,896	1,789	32,622	32,622	6,291,409.0	7,381,539	28.4	0.1	31.5	1,896	1,789
All	All	2002	All	All	2,244	2,135	33,932	33,932	6,347,189.3	7,506,807	33.6	0.1	36.5	2,244	2,135
All	All	2003	All	All	3,253	2,980	35,215	35,215	6,321,981.0	7,495,978	47.1	0.1	49.1	3,253	2,980
All	All	2004	All	All	3,436	3,135	36,042	36,042	6,614,810.8	7,984,984	47.4	0.1	48.0	3,436	3,135
All	All	2005	All	All	3,611	3,323	37,614	37,614	6,881,306.0	8,108,020	48.3	0.1	47.8	3,611	3,323
All	All	2006	All	All	3,262	3,012	35,951	35,951	6,879,145.1	8,081,278	43.8	0.1	43.4	3,262	3,012
All	All	2007	All	All	3,235	2,991	34,726	34,726	6,906,858.2	8,077,386	43.3	0.1	43.4	3,235	2,991
All	All	2008	All	All	3,351	3,103	35,623	35,623	7,011,091.5	8,245,552	44.3	0.1	43.9	3,351	3,103
All	All	2009	All	All	3,330	3,099	36,133	36,133	7,114,979.3	8,354,595	43.6	0.1	42.9	3,330	3,099
All	All	2010	All	All	3,209	2,988	36,262	36,262	7,279,060.4	8,513,155	41.0	0.1	40.4	3,209	2,988
All	All	2011	All	All	3,520	3,289	38,251	38,251	7,465,824.1	8,696,407	44.1	0.1	42.3	3,520	3,289
All	All	2012	All	All	3,554	3,323	40,370	40,370	7,608,063.0	8,783,346	43.7	0.1	40.8	3,554	3,323
All	All	2013	All	All	3,315	3,109	43,061	43,061	7,627,500.4	8,834,494	40.8	0.1	37.2	3,315	3,109
All	All	2014	All	All	3,451	3,233	43,286	43,286	7,815,626.6	9,111,922	41.4	0.1	38.0	3,451	3,233
All	All	2015	All	All	3,463	3,258	43,233	43,233	8,066,953.4	9,354,219	40.4	0.1	37.6	3,463	3,258
All	All	2016	All	All	25	25	26,879	26,879	6,819,518.2	7,979,634	0.4	0.0	0.3	25	25

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category		Year	Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex				Corresponding Cause of Death	Death and a Record of		Death in			Record of Death	Eligible Member-	Members		100,000 Member-
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
All	All	2017	All	All	0	0	14,614	14,614	3,471,877.7	7,406,655	0.0	0.0	0.0	0	0
<45	All	2000	All	All	20	20	1,137	1,137	2,017,775.7	4,478,201	1.0	0.0	.	20	20
<45	All	2001	All	All	72	63	2,305	2,305	3,988,460.3	4,890,816	1.6	0.0	.	72	63
<45	All	2002	All	All	92	89	2,457	2,457	3,975,146.2	4,924,976	2.2	0.0	.	92	89
<45	All	2003	All	All	118	111	2,325	2,325	3,896,625.4	4,850,662	2.8	0.0	.	118	111
<45	All	2004	All	All	136	122	2,395	2,395	4,015,155.0	5,068,217	3.0	0.1	.	136	122
<45	All	2005	All	All	130	122	2,338	2,338	4,137,833.7	5,118,753	2.9	0.1	.	130	122
<45	All	2006	All	All	120	110	2,156	2,156	4,147,431.2	5,108,760	2.7	0.1	.	120	110
<45	All	2007	All	All	98	93	2,094	2,094	4,159,912.3	5,110,430	2.2	0.0	.	98	93
<45	All	2008	All	All	89	86	1,926	1,926	4,204,306.8	5,203,620	2.0	0.0	.	89	86
<45	All	2009	All	All	78	77	1,889	1,889	4,255,252.2	5,233,712	1.8	0.0	.	78	77
<45	All	2010	All	All	88	81	1,907	1,907	4,352,170.2	5,314,447	1.9	0.0	.	88	81
<45	All	2011	All	All	95	89	1,885	1,885	4,444,966.9	5,400,950	2.0	0.0	.	95	89
<45	All	2012	All	All	86	82	1,952	1,952	4,506,023.4	5,423,556	1.8	0.0	.	86	82
<45	All	2013	All	All	104	100	1,934	1,934	4,474,444.1	5,407,032	2.2	0.1	.	104	100
<45	All	2014	All	All	122	119	1,955	1,955	4,594,909.2	5,545,733	2.6	0.1	.	122	119
<45	All	2015	All	All	109	105	2,163	2,163	4,787,153.2	5,732,854	2.2	0.0	.	109	105
<45	All	2016	All	All	0	0	641	641	3,750,856.2	4,607,438	0.0	0.0	.	0	0
<45	All	2017	All	All	0	0	312	312	1,875,966.4	4,155,592	0.0	0.0	.	0	0
45-54	All	2000	All	All	55	51	1,135	1,135	468,567.8	1,030,243	10.9	0.0	.	55	51
45-54	All	2001	All	All	150	138	2,350	2,350	930,126.4	1,132,780	14.8	0.1	.	150	138
45-54	All	2002	All	All	157	146	2,469	2,469	940,166.7	1,161,602	15.5	0.1	.	157	146
45-54	All	2003	All	All	227	209	2,680	2,680	946,533.1	1,168,530	22.1	0.1	.	227	209
45-54	All	2004	All	All	258	242	2,681	2,681	1,005,723.0	1,272,901	24.1	0.1	.	258	242
45-54	All	2005	All	All	299	279	2,877	2,877	1,054,786.5	1,303,071	26.5	0.1	.	299	279
45-54	All	2006	All	All	236	219	2,650	2,650	1,046,767.4	1,285,962	20.9	0.1	.	236	219
45-54	All	2007	All	All	241	224	2,464	2,464	1,057,659.7	1,292,970	21.2	0.1	.	241	224
45-54	All	2008	All	All	219	207	2,599	2,599	1,068,678.3	1,313,866	19.4	0.1	.	219	207
45-54	All	2009	All	All	231	210	2,564	2,564	1,073,199.3	1,325,632	19.6	0.1	.	231	210
45-54	All	2010	All	All	257	238	2,389	2,389	1,078,864.4	1,331,873	22.1	0.1	.	257	238
45-54	All	2011	All	All	270	249	2,476	2,476	1,084,782.4	1,331,773	23.0	0.1	.	270	249
45-54	All	2012	All	All	268	252	2,556	2,556	1,079,936.4	1,315,743	23.3	0.1	.	268	252
45-54	All	2013	All	All	258	238	2,402	2,402	1,064,429.5	1,305,614	22.4	0.1	.	258	238
45-54	All	2014	All	All	330	313	2,461	2,461	1,070,418.7	1,350,867	29.2	0.1	.	330	313
45-54	All	2015	All	All	280	258	2,400	2,400	1,086,803.2	1,361,506	23.7	0.1	.	280	258
45-54	All	2016	All	All	5	5	862	862	1,010,930.8	1,264,161	0.5	0.0	.	5	5
45-54	All	2017	All	All	0	0	387	387	504,990.6	1,123,228	0.0	0.0	.	0	0
55-64	All	2000	All	All	116	107	1,941	1,941	314,986.4	685,510	34.0	0.1	.	116	107

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding Cause of Death	Death and a Record of					Death in	Record of Death	Eligible Member-		Members
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
55-64	All	2001	All	All	217	204	3,741	3,741	631,239.8	761,095	32.3	0.1	.	217	204
55-64	All	2002	All	All	253	239	4,000	4,000	671,462.6	811,389	35.6	0.1	.	253	239
55-64	All	2003	All	All	373	341	4,173	4,173	703,281.2	847,397	48.5	0.1	.	373	341
55-64	All	2004	All	All	406	374	4,305	4,305	769,959.0	952,058	48.6	0.1	.	406	374
55-64	All	2005	All	All	459	420	4,461	4,461	827,344.9	995,369	50.8	0.1	.	459	420
55-64	All	2006	All	All	373	355	4,290	4,290	835,081.8	999,341	42.5	0.1	.	373	355
55-64	All	2007	All	All	416	384	4,319	4,319	866,193.7	1,029,674	44.3	0.1	.	416	384
55-64	All	2008	All	All	436	406	4,399	4,399	896,476.1	1,069,112	45.3	0.1	.	436	406
55-64	All	2009	All	All	435	403	4,450	4,450	927,019.7	1,112,123	43.5	0.1	.	435	403
55-64	All	2010	All	All	348	324	4,405	4,405	961,679.5	1,151,056	33.7	0.1	.	348	324
55-64	All	2011	All	All	460	432	4,685	4,685	999,645.1	1,195,444	43.2	0.1	.	460	432
55-64	All	2012	All	All	507	471	4,937	4,937	1,014,700.7	1,212,366	46.4	0.1	.	507	471
55-64	All	2013	All	All	444	415	4,989	4,989	1,022,004.6	1,222,341	40.6	0.1	.	444	415
55-64	All	2014	All	All	463	434	4,968	4,968	1,042,564.4	1,284,064	41.6	0.1	.	463	434
55-64	All	2015	All	All	596	560	5,108	5,108	1,067,893.4	1,304,397	52.4	0.1	.	596	560
55-64	All	2016	All	All	3	3	2,212	2,212	1,016,816.1	1,243,492	0.3	0.0	.	3	3
55-64	All	2017	All	All	0	0	1,158	1,158	521,678.9	1,137,095	0.0	0.0	.	0	0
65-74	All	2000	All	All	122	117	3,013	3,013	210,129.6	454,255	55.7	0.0	.	122	117
65-74	All	2001	All	All	324	302	6,210	6,210	416,772.1	487,962	72.5	0.0	.	324	302
65-74	All	2002	All	All	367	353	6,194	6,194	423,050.4	497,596	83.4	0.1	.	367	353
65-74	All	2003	All	All	626	577	6,303	6,303	427,285.4	503,881	135.0	0.1	.	626	577
65-74	All	2004	All	All	648	596	6,389	6,389	450,006.0	539,878	132.4	0.1	.	648	596
65-74	All	2005	All	All	611	555	6,540	6,540	464,496.9	544,106	119.5	0.1	.	611	555
65-74	All	2006	All	All	540	494	5,917	5,917	453,419.3	535,754	108.9	0.1	.	540	494
65-74	All	2007	All	All	486	450	5,627	5,627	441,413.4	518,908	101.9	0.1	.	486	450
65-74	All	2008	All	All	550	510	5,874	5,874	454,809.1	530,522	112.1	0.1	.	550	510
65-74	All	2009	All	All	540	505	5,776	5,776	468,617.9	551,156	107.8	0.1	.	540	505
65-74	All	2010	All	All	556	520	5,744	5,744	487,586.5	572,402	106.6	0.1	.	556	520
65-74	All	2011	All	All	579	537	6,026	6,026	523,039.2	623,562	102.7	0.1	.	579	537
65-74	All	2012	All	All	639	593	6,810	6,810	577,990.8	683,149	102.6	0.1	.	639	593
65-74	All	2013	All	All	552	517	7,285	7,285	625,341.3	735,563	82.7	0.1	.	552	517
65-74	All	2014	All	All	654	605	7,622	7,622	663,353.2	773,620	91.2	0.1	.	654	605
65-74	All	2015	All	All	636	601	7,594	7,594	685,081.1	804,275	87.7	0.1	.	636	601
65-74	All	2016	All	All	5	5	4,790	4,790	650,408.1	753,415	0.8	0.0	.	5	5
65-74	All	2017	All	All	0	0	2,522	2,522	356,969.1	728,808	0.0	0.0	.	0	0
75-84	All	2000	All	All	225	220	4,375	4,375	123,454.8	266,854	178.2	0.1	.	225	220
75-84	All	2001	All	All	514	489	9,130	9,130	248,380.2	291,180	196.9	0.1	.	514	489
75-84	All	2002	All	All	588	561	9,396	9,396	257,485.0	302,905	217.9	0.1	.	588	561

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Records of Death and a Corresponding Cause of Death		Members with Record of Death and Corresponding		Records of Death in		Members with Record of Death		Rate of SCD per 100,000 Member-		Rate of SCD among all		Age Standardized		Members with SCD COD	
(Years)	Sex	Year	Race	Hispanic	(COD) Record	COD Record	Death Table	in Death Table	Eligible Member-	Eligible	Years	Members	Years	Deaths	Death Rate	Codes	Codes	
75-84	All	2003	All	All	813	754	9,912	9,912	264,671.9	310,106	284.9	310,106	284.9	0.1	.	813	754	
75-84	All	2004	All	All	863	777	10,060	10,060	283,064.3	339,239	274.5	339,239	274.5	0.1	.	863	777	
75-84	All	2005	All	All	923	861	10,376	10,376	297,754.2	344,876	289.2	344,876	289.2	0.1	.	923	861	
75-84	All	2006	All	All	878	817	10,171	10,171	294,314.3	343,611	277.6	343,611	277.6	0.1	.	878	817	
75-84	All	2007	All	All	819	764	9,269	9,269	278,557.9	323,217	274.3	323,217	274.3	0.1	.	819	764	
75-84	All	2008	All	All	858	794	9,430	9,430	279,353.0	321,406	284.2	321,406	284.2	0.1	.	858	794	
75-84	All	2009	All	All	881	814	9,616	9,616	279,107.1	323,574	291.6	323,574	291.6	0.1	.	881	814	
75-84	All	2010	All	All	790	745	9,537	9,537	282,540.6	327,723	263.7	327,723	263.7	0.1	.	790	745	
75-84	All	2011	All	All	829	784	9,843	9,843	291,758.5	339,336	268.7	339,336	268.7	0.1	.	829	784	
75-84	All	2012	All	All	870	812	10,273	10,273	301,878.6	349,558	269.0	349,558	269.0	0.1	.	870	812	
75-84	All	2013	All	All	782	740	10,898	10,898	309,792.3	359,770	238.9	359,770	238.9	0.1	.	782	740	
75-84	All	2014	All	All	822	765	10,907	10,907	312,328.8	361,446	244.9	361,446	244.9	0.1	.	822	765	
75-84	All	2015	All	All	787	744	10,701	10,701	310,486.9	366,148	239.6	366,148	239.6	0.1	.	787	744	
75-84	All	2016	All	All	8	8	7,198	7,198	277,584.2	320,062	2.9	320,062	2.9	0.0	.	8	8	
75-84	All	2017	All	All	0	0	3,935	3,935	151,873.4	310,386	0.0	310,386	0.0	0.0	.	0	0	
85+	All	2000	All	All	303	289	4,274	4,274	37,833.5	83,777	763.9	83,777	763.9	0.1	.	303	289	
85+	All	2001	All	All	619	593	8,886	8,886	76,330.4	94,176	776.9	94,176	776.9	0.1	.	619	593	
85+	All	2002	All	All	787	747	9,416	9,416	79,766.2	98,947	936.5	98,947	936.5	0.1	.	787	747	
85+	All	2003	All	All	1,096	988	9,822	9,822	83,482.9	103,011	1183.5	103,011	1183.5	0.1	.	1,096	988	
85+	All	2004	All	All	1,125	1,024	10,212	10,212	90,811.6	115,093	1127.6	115,093	1127.6	0.1	.	1,125	1,024	
85+	All	2005	All	All	1,189	1,086	11,022	11,022	98,999.7	120,522	1097.0	120,522	1097.0	0.1	.	1,189	1,086	
85+	All	2006	All	All	1,115	1,017	10,767	10,767	102,044.0	125,007	996.6	125,007	996.6	0.1	.	1,115	1,017	
85+	All	2007	All	All	1,175	1,076	10,953	10,953	103,027.6	124,500	1044.4	124,500	1044.4	0.1	.	1,175	1,076	
85+	All	2008	All	All	1,199	1,100	11,395	11,395	107,373.1	128,906	1024.5	128,906	1024.5	0.1	.	1,199	1,100	
85+	All	2009	All	All	1,165	1,090	11,838	11,838	111,685.2	133,695	976.0	133,695	976.0	0.1	.	1,165	1,090	
85+	All	2010	All	All	1,170	1,080	12,280	12,280	116,136.3	138,867	929.9	138,867	929.9	0.1	.	1,170	1,080	
85+	All	2011	All	All	1,287	1,198	13,336	13,336	121,556.3	145,601	985.6	145,601	985.6	0.1	.	1,287	1,198	
85+	All	2012	All	All	1,184	1,113	13,842	13,842	127,460.4	151,632	873.2	151,632	873.2	0.1	.	1,184	1,113	
85+	All	2013	All	All	1,175	1,099	15,553	15,553	131,413.9	156,958	836.3	156,958	836.3	0.1	.	1,175	1,099	
85+	All	2014	All	All	1,060	997	15,373	15,373	131,996.5	156,847	755.3	156,847	755.3	0.1	.	1,060	997	
85+	All	2015	All	All	1,055	990	15,267	15,267	129,484.8	157,229	764.6	157,229	764.6	0.1	.	1,055	990	
85+	All	2016	All	All	4	4	11,176	11,176	112,890.9	132,627	3.5	132,627	3.5	0.0	.	4	4	
85+	All	2017	All	All	0	0	6,300	6,300	60,393.6	125,866	0.0	125,866	0.0	0.0	.	0	0	
All	F	2000	All	All	513	489	8,419	8,419	1,686,424.8	3,641,577	29.0	3,641,577	29.0	0.1	.	513	489	
All	M	2000	All	All	328	315	7,456	7,456	1,486,376.4	3,224,628	21.2	3,224,628	21.2	0.0	.	328	315	
All	F	2001	All	All	1,185	1,116	17,345	17,345	3,344,677.7	3,904,586	33.4	3,904,586	33.4	0.1	.	1,185	1,116	
All	M	2001	All	All	711	673	15,277	15,277	2,946,731.3	3,476,953	22.8	3,476,953	22.8	0.0	.	711	673	
All	F	2002	All	All	1,357	1,284	18,077	18,077	3,374,462.0	3,970,749	38.1	3,970,749	38.1	0.1	.	1,357	1,284	

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category		Year	Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex				Corresponding Cause of Death	Death and a Corresponding					Death in	Record of Death	100,000 Member-		
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
All	M	2002	All	All	887	851	15,855	15,855	2,972,727.3	3,536,058	28.6	0.1	.	887	851
All	F	2003	All	All	2,030	1,854	18,954	18,954	3,363,090.4	3,970,528	55.1	0.1	.	2,030	1,854
All	M	2003	All	All	1,223	1,126	16,261	16,261	2,958,890.5	3,525,450	38.1	0.1	.	1,223	1,126
All	F	2004	All	All	2,025	1,841	19,307	19,307	3,521,482.6	4,236,453	52.3	0.1	.	2,025	1,841
All	M	2004	All	All	1,411	1,294	16,735	16,735	3,093,328.2	3,748,531	41.8	0.1	.	1,411	1,294
All	F	2005	All	All	2,246	2,050	20,284	20,284	3,662,142.2	4,297,929	56.0	0.1	.	2,246	2,050
All	M	2005	All	All	1,365	1,273	17,330	17,330	3,219,163.8	3,810,091	39.5	0.1	.	1,365	1,273
All	F	2006	All	All	2,006	1,841	19,456	19,456	3,654,238.8	4,281,782	50.4	0.1	.	2,006	1,841
All	M	2006	All	All	1,256	1,171	16,495	16,495	3,224,906.3	3,799,496	36.3	0.1	.	1,256	1,171
All	F	2007	All	All	2,038	1,889	18,877	18,877	3,663,823.0	4,274,590	51.6	0.1	.	2,038	1,889
All	M	2007	All	All	1,197	1,102	15,849	15,849	3,243,035.2	3,802,796	34.0	0.1	.	1,197	1,102
All	F	2008	All	All	2,128	1,971	19,427	19,427	3,718,088.7	4,361,793	53.0	0.1	.	2,128	1,971
All	M	2008	All	All	1,223	1,132	16,196	16,196	3,293,002.8	3,883,759	34.4	0.1	.	1,223	1,132
All	F	2009	All	All	2,076	1,934	19,858	19,858	3,785,125.4	4,427,871	51.1	0.1	.	2,076	1,934
All	M	2009	All	All	1,254	1,165	16,275	16,275	3,329,853.9	3,926,724	35.0	0.1	.	1,254	1,165
All	F	2010	All	All	1,974	1,831	19,713	19,713	3,883,075.4	4,523,956	47.2	0.1	.	1,974	1,831
All	M	2010	All	All	1,235	1,157	16,549	16,549	3,395,985.0	3,989,199	34.1	0.1	.	1,235	1,157
All	F	2011	All	All	2,177	2,031	20,854	20,854	3,981,091.8	4,621,538	51.0	0.1	.	2,177	2,031
All	M	2011	All	All	1,343	1,258	17,397	17,397	3,484,732.3	4,074,869	36.1	0.1	.	1,343	1,258
All	F	2012	All	All	2,145	1,994	21,908	21,908	4,051,826.2	4,665,404	49.2	0.1	.	2,145	1,994
All	M	2012	All	All	1,409	1,329	18,462	18,462	3,556,236.8	4,117,942	37.4	0.1	.	1,409	1,329
All	F	2013	All	All	2,029	1,899	23,358	23,358	4,055,507.7	4,687,975	46.8	0.1	.	2,029	1,899
All	M	2013	All	All	1,286	1,210	19,703	19,703	3,571,992.8	4,146,519	33.9	0.1	.	1,286	1,210
All	F	2014	All	All	2,078	1,932	23,525	23,525	4,153,550.1	4,819,888	46.5	0.1	.	2,078	1,932
All	M	2014	All	All	1,373	1,301	19,761	19,761	3,662,076.5	4,292,034	35.5	0.1	.	1,373	1,301
All	F	2015	All	All	2,054	1,932	23,737	23,737	4,285,514.7	4,941,123	45.1	0.1	.	2,054	1,932
All	M	2015	All	All	1,409	1,326	19,496	19,496	3,781,438.7	4,413,096	35.1	0.1	.	1,409	1,326
All	F	2016	All	All	13	13	14,148	14,148	3,537,889.5	4,118,532	0.4	0.0	.	13	13
All	M	2016	All	All	12	12	12,731	12,731	3,281,628.7	3,861,102	0.4	0.0	.	12	12
All	F	2017	All	All	0	0	7,676	7,676	1,805,843.6	3,834,867	0.0	0.0	.	0	0
All	M	2017	All	All	0	0	6,938	6,938	1,666,034.1	3,571,788	0.0	0.0	.	0	0
<45	F	2000	All	All	7	7	432	432	1,052,725.4	2,332,710	0.7	0.0	.	7	7
<45	M	2000	All	All	13	13	705	705	965,050.3	2,145,491	1.3	0.0	.	13	13
<45	F	2001	All	All	27	23	859	859	2,079,872.8	2,541,005	1.1	0.0	.	27	23
<45	M	2001	All	All	45	40	1,446	1,446	1,908,587.5	2,349,811	2.1	0.0	.	45	40
<45	F	2002	All	All	34	34	935	935	2,070,740.6	2,557,439	1.6	0.0	.	34	34
<45	M	2002	All	All	58	55	1,522	1,522	1,904,405.6	2,367,537	2.9	0.0	.	58	55
<45	F	2003	All	All	47	44	958	958	2,030,751.4	2,523,090	2.2	0.0	.	47	44

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding Cause of Death	Death and a Corresponding					Death in	Record of Death	Years		100,000 Member-
<45	M	2003	All	All	71	67	1,367	1,367	1,865,874.0	2,327,572	3.6	0.0	.	71	67
<45	F	2004	All	All	39	36	965	965	2,094,754.1	2,640,925	1.7	0.0	.	39	36
<45	M	2004	All	All	97	86	1,430	1,430	1,920,400.9	2,427,292	4.5	0.1	.	97	86
<45	F	2005	All	All	49	45	911	911	2,158,744.3	2,665,052	2.1	0.0	.	49	45
<45	M	2005	All	All	81	77	1,427	1,427	1,979,089.5	2,453,701	3.9	0.1	.	81	77
<45	F	2006	All	All	44	42	893	893	2,161,668.9	2,661,021	1.9	0.0	.	44	42
<45	M	2006	All	All	76	68	1,263	1,263	1,985,762.3	2,447,739	3.4	0.1	.	76	68
<45	F	2007	All	All	39	38	829	829	2,165,325.5	2,660,525	1.8	0.0	.	39	38
<45	M	2007	All	All	59	55	1,265	1,265	1,994,586.8	2,449,905	2.8	0.0	.	59	55
<45	F	2008	All	All	28	28	757	757	2,188,369.1	2,709,290	1.3	0.0	.	28	28
<45	M	2008	All	All	61	58	1,169	1,169	2,015,937.7	2,494,330	2.9	0.0	.	61	58
<45	F	2009	All	All	34	34	776	776	2,224,203.2	2,732,018	1.5	0.0	.	34	34
<45	M	2009	All	All	44	43	1,113	1,113	2,031,048.9	2,501,694	2.1	0.0	.	44	43
<45	F	2010	All	All	42	38	800	800	2,283,888.8	2,784,338	1.7	0.0	.	42	38
<45	M	2010	All	All	46	43	1,107	1,107	2,068,281.4	2,530,109	2.1	0.0	.	46	43
<45	F	2011	All	All	45	42	796	796	2,330,599.5	2,827,316	1.8	0.1	.	45	42
<45	M	2011	All	All	50	47	1,089	1,089	2,114,367.4	2,573,634	2.2	0.0	.	50	47
<45	F	2012	All	All	44	43	825	825	2,358,645.3	2,836,994	1.8	0.1	.	44	43
<45	M	2012	All	All	42	39	1,127	1,127	2,147,378.1	2,586,562	1.8	0.0	.	42	39
<45	F	2013	All	All	52	48	775	775	2,337,797.8	2,826,240	2.1	0.1	.	52	48
<45	M	2013	All	All	52	52	1,159	1,159	2,136,646.2	2,580,792	2.4	0.0	.	52	52
<45	F	2014	All	All	56	54	803	803	2,402,439.7	2,888,029	2.2	0.1	.	56	54
<45	M	2014	All	All	66	65	1,152	1,152	2,192,469.5	2,657,704	3.0	0.1	.	66	65
<45	F	2015	All	All	54	52	893	893	2,505,958.5	2,984,606	2.1	0.1	.	54	52
<45	M	2015	All	All	55	53	1,270	1,270	2,281,194.7	2,748,248	2.3	0.0	.	55	53
<45	F	2016	All	All	0	0	224	224	1,900,658.4	2,325,342	0.0	0.0	.	0	0
<45	M	2016	All	All	0	0	417	417	1,850,197.8	2,282,096	0.0	0.0	.	0	0
<45	F	2017	All	All	0	0	116	116	951,622.7	2,102,523	0.0	0.0	.	0	0
<45	M	2017	All	All	0	0	196	196	924,343.7	2,053,069	0.0	0.0	.	0	0
45-54	F	2000	All	All	27	25	461	461	247,771.5	544,343	10.1	0.1	.	27	25
45-54	M	2000	All	All	28	26	674	674	220,796.4	485,900	11.8	0.0	.	28	26
45-54	F	2001	All	All	60	55	961	961	491,750.4	596,890	11.2	0.1	.	60	55
45-54	M	2001	All	All	90	83	1,389	1,389	438,376.1	535,890	18.9	0.1	.	90	83
45-54	F	2002	All	All	49	46	982	982	497,175.7	611,588	9.3	0.0	.	49	46
45-54	M	2002	All	All	108	100	1,487	1,487	442,991.0	550,014	22.6	0.1	.	108	100
45-54	F	2003	All	All	76	72	1,069	1,069	500,184.0	615,220	14.4	0.1	.	76	72
45-54	M	2003	All	All	151	137	1,611	1,611	446,349.1	553,310	30.7	0.1	.	151	137
45-54	F	2004	All	All	76	73	1,114	1,114	532,354.2	672,417	13.7	0.1	.	76	73

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding Cause of Death	Death and a Record of					Death in	Record of Death	Eligible Member-		
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
45-54	M	2004	All	All	182	169	1,567	1,567	473,368.8	600,484	35.7	0.1	.	182	169
45-54	F	2005	All	All	118	109	1,213	1,213	558,858.5	687,856	19.5	0.1	.	118	109
45-54	M	2005	All	All	181	170	1,664	1,664	495,928.0	615,215	34.3	0.1	.	181	170
45-54	F	2006	All	All	89	80	1,092	1,092	553,388.4	678,104	14.5	0.1	.	89	80
45-54	M	2006	All	All	147	139	1,558	1,558	493,379.0	607,858	28.2	0.1	.	147	139
45-54	F	2007	All	All	88	81	1,002	1,002	559,017.6	681,230	14.5	0.1	.	88	81
45-54	M	2007	All	All	153	143	1,462	1,462	498,642.1	611,740	28.7	0.1	.	153	143
45-54	F	2008	All	All	95	88	1,101	1,101	564,273.7	691,862	15.6	0.1	.	95	88
45-54	M	2008	All	All	124	119	1,498	1,498	504,404.6	622,004	23.6	0.1	.	124	119
45-54	F	2009	All	All	92	84	1,116	1,116	568,391.0	698,950	14.8	0.1	.	92	84
45-54	M	2009	All	All	139	126	1,448	1,448	504,808.3	626,682	25.0	0.1	.	139	126
45-54	F	2010	All	All	105	97	996	996	572,776.3	703,925	16.9	0.1	.	105	97
45-54	M	2010	All	All	152	141	1,393	1,393	506,088.1	627,948	27.9	0.1	.	152	141
45-54	F	2011	All	All	97	92	1,063	1,063	575,981.9	704,467	16.0	0.1	.	97	92
45-54	M	2011	All	All	173	157	1,413	1,413	508,800.5	627,306	30.9	0.1	.	173	157
45-54	F	2012	All	All	99	94	1,088	1,088	572,379.4	695,113	16.4	0.1	.	99	94
45-54	M	2012	All	All	169	158	1,468	1,468	507,557.0	620,630	31.1	0.1	.	169	158
45-54	F	2013	All	All	105	99	1,051	1,051	562,476.6	687,809	17.6	0.1	.	105	99
45-54	M	2013	All	All	153	139	1,351	1,351	501,953.0	617,805	27.7	0.1	.	153	139
45-54	F	2014	All	All	162	152	1,110	1,110	564,260.0	709,413	26.9	0.1	.	162	152
45-54	M	2014	All	All	168	161	1,351	1,351	506,158.7	641,454	31.8	0.1	.	168	161
45-54	F	2015	All	All	116	109	1,104	1,104	572,051.4	713,484	19.1	0.1	.	116	109
45-54	M	2015	All	All	164	149	1,296	1,296	514,751.9	648,022	28.9	0.1	.	164	149
45-54	F	2016	All	All	2	2	367	367	524,120.8	653,432	0.4	0.0	.	2	2
45-54	M	2016	All	All	3	3	495	495	486,810.0	610,729	0.6	0.0	.	3	3
45-54	F	2017	All	All	0	0	163	163	262,568.1	581,559	0.0	0.0	.	0	0
45-54	M	2017	All	All	0	0	224	224	242,422.4	541,669	0.0	0.0	.	0	0
55-64	F	2000	All	All	39	34	802	802	167,573.4	364,299	20.3	0.0	.	39	34
55-64	M	2000	All	All	77	73	1,139	1,139	147,413.1	321,211	49.5	0.1	.	77	73
55-64	F	2001	All	All	100	95	1,543	1,543	336,645.7	404,405	28.2	0.1	.	100	95
55-64	M	2001	All	All	117	109	2,198	2,198	294,594.1	356,690	37.0	0.0	.	117	109
55-64	F	2002	All	All	105	98	1,624	1,624	358,372.5	431,257	27.3	0.1	.	105	98
55-64	M	2002	All	All	148	141	2,376	2,376	313,090.1	380,132	45.0	0.1	.	148	141
55-64	F	2003	All	All	155	144	1,807	1,807	375,619.8	450,704	38.3	0.1	.	155	144
55-64	M	2003	All	All	218	197	2,366	2,366	327,661.4	396,693	60.1	0.1	.	218	197
55-64	F	2004	All	All	154	145	1,801	1,801	410,495.9	505,763	35.3	0.1	.	154	145
55-64	M	2004	All	All	252	229	2,504	2,504	359,463.1	446,295	63.7	0.1	.	252	229
55-64	F	2005	All	All	197	178	1,880	1,880	440,052.1	528,573	40.4	0.1	.	197	178

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding Cause of Death	Death and a Record of					Death in	Record of Death	Eligible Member-		
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
55-64	M	2005	All	All	262	242	2,581	2,581	387,292.8	466,796	62.5	0.1	.	262	242
55-64	F	2006	All	All	158	150	1,880	1,880	442,305.0	528,734	33.9	0.1	.	158	150
55-64	M	2006	All	All	215	205	2,410	2,410	392,776.9	470,607	52.2	0.1	.	215	205
55-64	F	2007	All	All	171	160	1,816	1,816	459,034.8	544,293	34.9	0.1	.	171	160
55-64	M	2007	All	All	245	224	2,503	2,503	407,158.8	485,381	55.0	0.1	.	245	224
55-64	F	2008	All	All	181	169	1,878	1,878	475,425.6	565,260	35.5	0.1	.	181	169
55-64	M	2008	All	All	255	237	2,521	2,521	421,050.5	503,852	56.3	0.1	.	255	237
55-64	F	2009	All	All	180	169	1,934	1,934	494,090.5	590,033	34.2	0.1	.	180	169
55-64	M	2009	All	All	255	234	2,516	2,516	432,929.3	522,090	54.1	0.1	.	255	234
55-64	F	2010	All	All	147	136	1,884	1,884	514,735.7	613,004	26.4	0.1	.	147	136
55-64	M	2010	All	All	201	188	2,521	2,521	446,943.8	538,052	42.1	0.1	.	201	188
55-64	F	2011	All	All	183	171	2,032	2,032	536,037.2	638,572	31.9	0.1	.	183	171
55-64	M	2011	All	All	277	261	2,653	2,653	463,607.9	556,872	56.3	0.1	.	277	261
55-64	F	2012	All	All	205	192	2,127	2,127	544,032.5	647,893	35.3	0.1	.	205	192
55-64	M	2012	All	All	302	279	2,810	2,810	470,668.2	564,473	59.3	0.1	.	302	279
55-64	F	2013	All	All	200	186	2,195	2,195	546,636.6	651,592	34.0	0.1	.	200	186
55-64	M	2013	All	All	244	229	2,794	2,794	475,368.1	570,749	48.2	0.1	.	244	229
55-64	F	2014	All	All	203	189	2,188	2,188	556,622.4	683,602	34.0	0.1	.	203	189
55-64	M	2014	All	All	260	245	2,780	2,780	485,942.0	600,462	50.4	0.1	.	260	245
55-64	F	2015	All	All	240	228	2,152	2,152	569,020.4	692,676	40.1	0.1	.	240	228
55-64	M	2015	All	All	356	332	2,956	2,956	498,873.0	611,721	66.6	0.1	.	356	332
55-64	F	2016	All	All	3	3	959	959	539,495.3	658,003	0.6	0.0	.	3	3
55-64	M	2016	All	All	0	0	1,253	1,253	477,320.8	585,489	0.0	0.0	.	0	0
55-64	F	2017	All	All	0	0	502	502	277,981.8	602,860	0.0	0.0	.	0	0
55-64	M	2017	All	All	0	0	656	656	243,697.0	534,235	0.0	0.0	.	0	0
65-74	F	2000	All	All	56	54	1,382	1,382	115,937.6	250,370	46.6	0.0	.	56	54
65-74	M	2000	All	All	66	63	1,631	1,631	94,192.0	203,885	66.9	0.0	.	66	63
65-74	F	2001	All	All	165	151	2,879	2,879	230,247.4	268,797	65.6	0.1	.	165	151
65-74	M	2001	All	All	159	151	3,331	3,331	186,524.7	219,165	81.0	0.0	.	159	151
65-74	F	2002	All	All	186	180	2,840	2,840	234,251.4	274,157	76.8	0.1	.	186	180
65-74	M	2002	All	All	181	173	3,354	3,354	188,798.9	223,439	91.6	0.1	.	181	173
65-74	F	2003	All	All	321	294	2,898	2,898	236,212.3	277,324	124.5	0.1	.	321	294
65-74	M	2003	All	All	305	283	3,405	3,405	191,073.1	226,557	148.1	0.1	.	305	283
65-74	F	2004	All	All	319	291	2,974	2,974	248,387.5	296,656	117.2	0.1	.	319	291
65-74	M	2004	All	All	329	305	3,415	3,415	201,618.5	243,222	151.3	0.1	.	329	305
65-74	F	2005	All	All	300	271	3,076	3,076	255,699.2	298,335	106.0	0.1	.	300	271
65-74	M	2005	All	All	311	284	3,464	3,464	208,797.7	245,771	136.0	0.1	.	311	284
65-74	F	2006	All	All	244	224	2,739	2,739	249,137.3	293,152	89.9	0.1	.	244	224

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding Cause of Death	Death and a Corresponding					Death in	Record of Death	100,000 Member-		among all
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
65-74	M	2006	All	All	296	270	3,178	3,178	204,282.0	242,602	132.2	0.1	.	296	270
65-74	F	2007	All	All	243	230	2,631	2,631	242,064.0	283,377	95.0	0.1	.	243	230
65-74	M	2007	All	All	243	220	2,996	2,996	199,349.4	235,531	110.4	0.1	.	243	220
65-74	F	2008	All	All	293	275	2,748	2,748	249,291.1	289,418	110.3	0.1	.	293	275
65-74	M	2008	All	All	257	235	3,126	3,126	205,518.0	241,104	114.3	0.1	.	257	235
65-74	F	2009	All	All	248	234	2,800	2,800	256,318.1	300,273	91.3	0.1	.	248	234
65-74	M	2009	All	All	292	271	2,976	2,976	212,299.8	250,883	127.6	0.1	.	292	271
65-74	F	2010	All	All	280	261	2,694	2,694	266,087.2	311,255	98.1	0.1	.	280	261
65-74	M	2010	All	All	276	259	3,050	3,050	221,499.4	261,147	116.9	0.1	.	276	259
65-74	F	2011	All	All	289	267	2,765	2,765	285,044.0	338,616	93.7	0.1	.	289	267
65-74	M	2011	All	All	290	270	3,261	3,261	237,995.2	284,946	113.4	0.1	.	290	270
65-74	F	2012	All	All	303	279	3,271	3,271	314,786.7	371,069	88.6	0.1	.	303	279
65-74	M	2012	All	All	336	314	3,539	3,539	263,204.1	312,080	119.3	0.1	.	336	314
65-74	F	2013	All	All	271	252	3,411	3,411	340,698.9	399,632	74.0	0.1	.	271	252
65-74	M	2013	All	All	281	265	3,874	3,874	284,642.4	335,931	93.1	0.1	.	281	265
65-74	F	2014	All	All	310	284	3,532	3,532	361,523.5	420,579	78.6	0.1	.	310	284
65-74	M	2014	All	All	344	321	4,090	4,090	301,829.7	353,041	106.4	0.1	.	344	321
65-74	F	2015	All	All	321	301	3,642	3,642	373,827.4	437,098	80.5	0.1	.	321	301
65-74	M	2015	All	All	315	300	3,952	3,952	311,253.7	367,177	96.4	0.1	.	315	300
65-74	F	2016	All	All	3	3	2,261	2,261	348,661.8	402,418	0.9	0.0	.	3	3
65-74	M	2016	All	All	2	2	2,529	2,529	301,746.3	350,997	0.7	0.0	.	2	2
65-74	F	2017	All	All	0	0	1,109	1,109	191,890.5	390,441	0.0	0.0	.	0	0
65-74	M	2017	All	All	0	0	1,413	1,413	165,078.6	338,367	0.0	0.0	.	0	0
75-84	F	2000	All	All	145	142	2,352	2,352	75,351.7	162,665	188.4	0.1	.	145	142
75-84	M	2000	All	All	80	78	2,023	2,023	48,103.1	104,189	162.2	0.0	.	80	78
75-84	F	2001	All	All	339	320	4,912	4,912	151,700.7	177,250	210.9	0.1	.	339	320
75-84	M	2001	All	All	175	169	4,218	4,218	96,679.6	113,930	174.8	0.0	.	175	169
75-84	F	2002	All	All	373	348	5,156	5,156	157,136.8	184,340	221.5	0.1	.	373	348
75-84	M	2002	All	All	215	213	4,240	4,240	100,348.3	118,565	212.3	0.1	.	215	213
75-84	F	2003	All	All	537	498	5,353	5,353	161,246.1	188,287	308.8	0.1	.	537	498
75-84	M	2003	All	All	276	256	4,559	4,559	103,425.8	121,819	247.5	0.1	.	276	256
75-84	F	2004	All	All	518	465	5,438	5,438	171,684.3	204,774	270.8	0.1	.	518	465
75-84	M	2004	All	All	345	312	4,622	4,622	111,380.1	134,465	280.1	0.1	.	345	312
75-84	F	2005	All	All	580	536	5,597	5,597	179,606.6	207,213	298.4	0.1	.	580	536
75-84	M	2005	All	All	343	325	4,779	4,779	118,147.6	137,663	275.1	0.1	.	343	325
75-84	F	2006	All	All	571	524	5,481	5,481	176,831.6	205,710	296.3	0.1	.	571	524
75-84	M	2006	All	All	307	293	4,690	4,690	117,482.7	137,901	249.4	0.1	.	307	293
75-84	F	2007	All	All	521	491	5,105	5,105	167,029.7	193,224	294.0	0.1	.	521	491

Table 8. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD), Second Algorithm*

Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding Cause of Death	Death and a Record of					Death in	Record of Death	Eligible Member-		Members
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
75-84	M	2007	All	All	298	273	4,164	4,164	111,528.2	129,993	244.8	0.1	.	298	273
75-84	F	2008	All	All	550	513	5,118	5,118	166,687.6	191,289	307.8	0.1	.	550	513
75-84	M	2008	All	All	308	281	4,312	4,312	112,665.4	130,117	249.4	0.1	.	308	281
75-84	F	2009	All	All	564	524	5,209	5,209	165,464.5	191,572	316.7	0.1	.	564	524
75-84	M	2009	All	All	317	290	4,407	4,407	113,642.6	132,002	255.2	0.1	.	317	290
75-84	F	2010	All	All	496	466	5,089	5,089	166,304.0	192,642	280.2	0.1	.	496	466
75-84	M	2010	All	All	294	279	4,448	4,448	116,236.6	135,081	240.0	0.1	.	294	279
75-84	F	2011	All	All	521	493	5,309	5,309	170,767.2	198,338	288.7	0.1	.	521	493
75-84	M	2011	All	All	308	291	4,534	4,534	120,991.4	140,998	240.5	0.1	.	308	291
75-84	F	2012	All	All	567	524	5,492	5,492	175,713.3	203,208	298.2	0.1	.	567	524
75-84	M	2012	All	All	303	288	4,781	4,781	126,165.3	146,350	228.3	0.1	.	303	288
75-84	F	2013	All	All	475	453	5,760	5,760	179,376.8	207,989	252.5	0.1	.	475	453
75-84	M	2013	All	All	307	287	5,138	5,138	130,415.5	151,781	220.1	0.1	.	307	287
75-84	F	2014	All	All	518	479	5,709	5,709	180,136.5	208,148	265.9	0.1	.	518	479
75-84	M	2014	All	All	304	286	5,198	5,198	132,192.3	153,298	216.4	0.1	.	304	286
75-84	F	2015	All	All	508	480	5,798	5,798	178,555.0	209,895	268.8	0.1	.	508	480
75-84	M	2015	All	All	279	264	4,903	4,903	131,932.0	156,253	200.1	0.1	.	279	264
75-84	F	2016	All	All	2	2	3,499	3,499	153,485.7	176,507	1.3	0.0	.	2	2
75-84	M	2016	All	All	6	6	3,699	3,699	124,098.5	143,555	4.8	0.0	.	6	6
75-84	F	2017	All	All	0	0	1,995	1,995	83,756.5	171,122	0.0	0.0	.	0	0
75-84	M	2017	All	All	0	0	1,940	1,940	68,116.9	139,264	0.0	0.0	.	0	0
85+	F	2000	All	All	239	227	2,990	2,990	27,045.0	59,659	839.3	0.1	.	239	227
85+	M	2000	All	All	64	62	1,284	1,284	10,788.5	24,118	574.7	0.0	.	64	62
85+	F	2001	All	All	494	472	6,191	6,191	54,422.6	66,704	867.3	0.1	.	494	472
85+	M	2001	All	All	125	121	2,695	2,695	21,907.8	27,472	552.3	0.0	.	125	121
85+	F	2002	All	All	610	578	6,540	6,540	56,741.8	69,797	1018.6	0.1	.	610	578
85+	M	2002	All	All	177	169	2,876	2,876	23,024.4	29,150	734.0	0.1	.	177	169
85+	F	2003	All	All	894	802	6,869	6,869	59,040.4	72,409	1358.4	0.1	.	894	802
85+	M	2003	All	All	202	186	2,953	2,953	24,442.5	30,602	761.0	0.1	.	202	186
85+	F	2004	All	All	919	831	7,015	7,015	63,768.7	80,194	1303.1	0.1	.	919	831
85+	M	2004	All	All	206	193	3,197	3,197	27,042.9	34,899	713.7	0.1	.	206	193
85+	F	2005	All	All	1,002	911	7,607	7,607	69,141.7	83,576	1317.6	0.1	.	1,002	911
85+	M	2005	All	All	187	175	3,415	3,415	29,858.0	36,946	586.1	0.1	.	187	175
85+	F	2006	All	All	900	821	7,371	7,371	70,872.0	86,225	1158.4	0.1	.	900	821
85+	M	2006	All	All	215	196	3,396	3,396	31,172.0	38,782	628.8	0.1	.	215	196
85+	F	2007	All	All	976	889	7,494	7,494	71,312.1	85,764	1246.6	0.1	.	976	889
85+	M	2007	All	All	199	187	3,459	3,459	31,715.5	38,736	589.6	0.1	.	199	187
85+	F	2008	All	All	981	898	7,825	7,825	74,003.9	88,416	1213.5	0.1	.	981	898

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Age Category			Race	Hispanic	Records of	Members with	Records of	Members with	Eligible Member-	Eligible	Rate of SCD per	Rate of SCD	Age	SCD COD	Members with
(Years)	Sex	Year			Corresponding	Record of					Death in	Record of Death	100,000 Member-		
					(COD) Record	COD Record	Death Table	in Death Table	Years	Members	Years	Deaths	Death Rate	Codes	Codes
85+	M	2008	All	All	218	202	3,570	3,570	33,369.2	40,490	605.3	0.1	.	218	202
85+	F	2009	All	All	958	889	8,023	8,023	76,616.5	91,271	1160.3	0.1	.	958	889
85+	M	2009	All	All	207	201	3,815	3,815	35,068.6	42,424	573.2	0.1	.	207	201
85+	F	2010	All	All	904	833	8,250	8,250	79,244.2	94,314	1051.2	0.1	.	904	833
85+	M	2010	All	All	266	247	4,030	4,030	36,892.0	44,553	669.5	0.1	.	266	247
85+	F	2011	All	All	1,042	966	8,889	8,889	82,624.3	98,346	1169.1	0.1	.	1,042	966
85+	M	2011	All	All	245	232	4,447	4,447	38,932.0	47,255	595.9	0.1	.	245	232
85+	F	2012	All	All	927	862	9,105	9,105	86,232.4	101,955	999.6	0.1	.	927	862
85+	M	2012	All	All	257	251	4,737	4,737	41,228.0	49,677	608.8	0.1	.	257	251
85+	F	2013	All	All	926	861	10,166	10,166	88,483.6	105,036	973.1	0.1	.	926	861
85+	M	2013	All	All	249	238	5,387	5,387	42,930.3	51,922	554.4	0.0	.	249	238
85+	F	2014	All	All	829	774	10,183	10,183	88,541.3	104,592	874.2	0.1	.	829	774
85+	M	2014	All	All	231	223	5,190	5,190	43,455.3	52,255	513.2	0.0	.	231	223
85+	F	2015	All	All	815	762	10,148	10,148	86,082.2	103,823	885.2	0.1	.	815	762
85+	M	2015	All	All	240	228	5,119	5,119	43,402.5	53,406	525.3	0.0	.	240	228
85+	F	2016	All	All	3	3	6,838	6,838	71,453.8	83,210	4.2	0.0	.	3	3
85+	M	2016	All	All	1	1	4,338	4,338	41,437.1	49,417	2.4	0.0	.	1	1
85+	F	2017	All	All	0	0	3,791	3,791	38,020.7	78,917	0.0	0.0	.	0	0
85+	M	2017	All	All	0	0	2,509	2,509	22,372.9	46,949	0.0	0.0	.	0	0
All	All	All	American	All	83	80	2,341	2,341	628,912.4	99,165	12.7	0.0	.	83	80
			Indian/Alaskan Native												
All	All	All	Asian	All	918	869	21,427	21,427	10,012,752.8	1,419,752	8.7	0.0	.	918	869
All	All	All	Black/African American	All	8,911	8,172	55,853	55,853	10,641,598.6	1,622,024	76.8	0.1	.	8,911	8,172
All	All	All	Native Hawaiian/Pacific Islander	All	25	25	1,049	1,049	591,279.2	85,503	4.2	0.0	.	25	25
			Unknown	All	3,333	3,158	87,623	87,623	36,104,542.6	10,257,594	8.7	0.0	.	3,333	3,158
All	All	All	White	All	35,726	33,292	451,396	451,396	61,716,909.7	9,185,541	53.9	0.1	.	35,726	33,292
All	All	All	All	No	39,072	35,847	272,394	272,394	33,324,538.4	5,420,320	107.6	0.1	.	39,072	35,847
All	All	All	All	Unknown	9,150	8,980	318,842	318,842	74,383,470.6	15,448,438	12.1	0.0	.	9,150	8,980
All	All	All	All	Yes	774	769	28,453	28,453	11,987,986.4	1,800,821	6.4	0.0	.	774	769

*Evaluated at nine Data Partners who all use the state death certificates.

Appendix A. Start and End Dates for Each Data Partner (DP) as of Request Distribution Date (January 25, 2018)

DP ID	DP Start Date ¹	DP End Date ¹
DP001	1/1/2000	7/31/2017
DP002	1/1/2000	7/31/2017
DP003	1/1/2004	7/31/2017
DP004	1/1/2000	10/31/2014
DP005	1/1/2000	7/31/2017
DP006	1/1/2000	12/31/2016
DP007	1/1/2005	6/30/2017
DP008	1/1/2000	8/31/2017
DP009	1/1/2000	1/31/2017
DP010	1/1/2000	6/30/2017
DP011	1/1/2000	6/30/2015

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

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Myocardial Infarction (MI)

Code	Description	Code Category	Code Type
414.9	Unspecified chronic ischemic heart disease	Diagnosis	ICD-9-CM
414.8	Other specified forms of chronic ischemic heart disease	Diagnosis	ICD-9-CM
414.4	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-9-CM
414.3	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-9-CM
414.2	Chronic total occlusion of coronary artery	Diagnosis	ICD-9-CM
414.19	Other aneurysm of heart	Diagnosis	ICD-9-CM
414.12	Dissection of coronary artery	Diagnosis	ICD-9-CM
414.11	Aneurysm of coronary vessels	Diagnosis	ICD-9-CM
414.10	Aneurysm of heart	Diagnosis	ICD-9-CM
414.1	Aneurysm and dissection of heart	Diagnosis	ICD-9-CM
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	Diagnosis	ICD-9-CM
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	Diagnosis	ICD-9-CM
414.05	Coronary atherosclerosis of unspecified type of bypass graft	Diagnosis	ICD-9-CM
414.04	Coronary atherosclerosis of artery bypass graft	Diagnosis	ICD-9-CM
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	Diagnosis	ICD-9-CM
414.02	Coronary atherosclerosis of autologous vein bypass graft	Diagnosis	ICD-9-CM
414.01	Coronary atherosclerosis of native coronary artery	Diagnosis	ICD-9-CM
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	Diagnosis	ICD-9-CM
414.0	Coronary atherosclerosis	Diagnosis	ICD-9-CM
414	Other forms of chronic ischemic heart disease	Diagnosis	ICD-9-CM
413.9	Other and unspecified angina pectoris	Diagnosis	ICD-9-CM
413.1	Prinzmetal angina	Diagnosis	ICD-9-CM
413.0	Angina decubitus	Diagnosis	ICD-9-CM
413	Angina pectoris	Diagnosis	ICD-9-CM
411.89	Other acute and subacute form of ischemic heart disease	Diagnosis	ICD-9-CM
411.81	Acute coronary occlusion without myocardial infarction	Diagnosis	ICD-9-CM
411.8	Other acute and subacute forms of ischemic heart disease	Diagnosis	ICD-9-CM
411.1	Intermediate coronary syndrome	Diagnosis	ICD-9-CM
411.0	Postmyocardial infarction syndrome	Diagnosis	ICD-9-CM
411	Other acute and subacute forms of ischemic heart disease	Diagnosis	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	Diagnosis	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	Diagnosis	ICD-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	Diagnosis	ICD-9-CM
410.9	Acute myocardial infarction, unspecified site	Diagnosis	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	Diagnosis	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	Diagnosis	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	Diagnosis	ICD-9-CM
410.8	Acute myocardial infarction of other specified sites	Diagnosis	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	Diagnosis	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.7	Acute myocardial infarction, subendocardial infarction	Diagnosis	ICD-9-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Myocardial Infarction (MI)

Code	Description	Code Category	Code Type
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	Diagnosis	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.6	Acute myocardial infarction, true posterior wall infarction	Diagnosis	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.5	Acute myocardial infarction of other lateral wall	Diagnosis	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	Diagnosis	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.4	Acute myocardial infarction of other inferior wall	Diagnosis	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.3	Acute myocardial infarction of inferoposterior wall	Diagnosis	ICD-9-CM
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.2	Acute myocardial infarction of inferolateral wall	Diagnosis	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.1	Acute myocardial infarction of other anterior wall	Diagnosis	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.0	Acute myocardial infarction of anterolateral wall	Diagnosis	ICD-9-CM
410	Acute myocardial infarction	Diagnosis	ICD-9-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I24.9	Acute ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I21.9	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I25.3	Aneurysm of heart	Diagnosis	ICD-10-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Myocardial Infarction (MI)

Code	Description	Code Category	Code Type
I20.1	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I20.9	Angina pectoris, unspecified	Diagnosis	ICD-10-CM
I25.72	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.71	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.76	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.7	Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25.70	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris	Diagnosis	ICD-10-CM
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Myocardial Infarction (MI)

Code	Description	Code Category	Code Type
I25.75	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.73	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.79	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.81	Atherosclerosis of other coronary vessels without angina pectoris	Diagnosis	ICD-10-CM
I25.1	Atherosclerotic heart disease of native coronary artery	Diagnosis	ICD-10-CM
I25.11	Atherosclerotic heart disease of native coronary artery with angina pectoris	Diagnosis	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25	Chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM

Appendix B. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Myocardial Infarction (MI)

Code	Description	Code Category	Code Type
I25.41	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I25.4	Coronary artery aneurysm and dissection	Diagnosis	ICD-10-CM
I25.42	Coronary artery dissection	Diagnosis	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I25.5	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I25.2	Old myocardial infarction	Diagnosis	ICD-10-CM
I24	Other acute ischemic heart diseases	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I20.8	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.8	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I21.A	Other type of myocardial infarction	Diagnosis	ICD-10-CM
I25.6	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.0	ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I21.1	ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I21.2	ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I20.0	Unstable angina	Diagnosis	ICD-10-CM

Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Stroke

Code	Description	Code Category	Code Type
434.91	Unspecified cerebral artery occlusion with cerebral infarction	Diagnosis	ICD-9-CM
434.11	Cerebral embolism with cerebral infarction	Diagnosis	ICD-9-CM
434.01	Cerebral thrombosis with cerebral infarction	Diagnosis	ICD-9-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	Diagnosis	ICD-9-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	Diagnosis	ICD-9-CM
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	Diagnosis	ICD-9-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	Diagnosis	ICD-9-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	Diagnosis	ICD-9-CM
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	Diagnosis	ICD-9-CM
432.9	Unspecified intracranial hemorrhage	Diagnosis	ICD-9-CM
431	Intracerebral hemorrhage	Diagnosis	ICD-9-CM
430	Subarachnoid hemorrhage	Diagnosis	ICD-9-CM
I63.139	Cerebral infarction due to embolism of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	Diagnosis	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries	Diagnosis	ICD-10-CM
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	Diagnosis	ICD-10-CM
I62.9	Nontraumatic intracranial hemorrhage, unspecified	Diagnosis	ICD-10-CM
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified	Diagnosis	ICD-10-CM

Appendix D. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Sudden Cardiac Death (SCD) in Algorithm #1

Code	Description	Code Category	Code Type
798.9	Unattended death	Diagnosis	ICD-9-CM
798.2	Death occurring in less than 24 hours from onset of symptoms, not otherwise explained	Diagnosis	ICD-9-CM
798.1	Instantaneous death	Diagnosis	ICD-9-CM
798	Sudden death, cause unknown	Diagnosis	ICD-9-CM
427.5	Cardiac arrest	Diagnosis	ICD-9-CM
427.42	Ventricular flutter	Diagnosis	ICD-9-CM
427.41	Ventricular fibrillation	Diagnosis	ICD-9-CM
427.4	Ventricular fibrillation and flutter	Diagnosis	ICD-9-CM
427.1	Paroxysmal ventricular tachycardia	Diagnosis	ICD-9-CM
I46.9	Cardiac arrest, cause unspecified	Diagnosis	ICD-10-CM
I49.01	Ventricular fibrillation	Diagnosis	ICD-10-CM
I49.02	Ventricular flutter	Diagnosis	ICD-10-CM
I47.2	Ventricular tachycardia	Diagnosis	ICD-10-CM
R96.0	Instantaneous death	Diagnosis	ICD-10-CM
R96.1	Death occurring less than 24 hours from onset of symptoms, not otherwise explained	Diagnosis	ICD-10-CM
R98	Unattended death	Diagnosis	ICD-10-CM

Appendix E. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Sudden Cardiac Death (SCD) in Algorithm #2

Code	Description	Code Category	Code Type
798.9	Unattended death	Diagnosis	ICD-9-CM
798.2	Death occurring in less than 24 hours from onset of symptoms, not otherwise explained	Diagnosis	ICD-9-CM
440.9	Generalized and unspecified atherosclerosis	Diagnosis	ICD-9-CM
429.9	Unspecified heart disease	Diagnosis	ICD-9-CM
429.2	Unspecified cardiovascular disease	Diagnosis	ICD-9-CM
427.9	Unspecified cardiac dysrhythmia	Diagnosis	ICD-9-CM
427.8	Other specified cardiac dysrhythmias	Diagnosis	ICD-9-CM
427.5	Cardiac arrest	Diagnosis	ICD-9-CM
427.42	Ventricular flutter	Diagnosis	ICD-9-CM
427.41	Ventricular fibrillation	Diagnosis	ICD-9-CM
427.4	Ventricular fibrillation and flutter	Diagnosis	ICD-9-CM
427.1	Paroxysmal ventricular tachycardia	Diagnosis	ICD-9-CM
425.4	Other primary cardiomyopathies	Diagnosis	ICD-9-CM
414.9	Unspecified chronic ischemic heart disease	Diagnosis	ICD-9-CM
414.8	Other specified forms of chronic ischemic heart disease	Diagnosis	ICD-9-CM
414.4	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-9-CM
414.3	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-9-CM
414.2	Chronic total occlusion of coronary artery	Diagnosis	ICD-9-CM
414.19	Other aneurysm of heart	Diagnosis	ICD-9-CM
414.12	Dissection of coronary artery	Diagnosis	ICD-9-CM
414.11	Aneurysm of coronary vessels	Diagnosis	ICD-9-CM
414.10	Aneurysm of heart	Diagnosis	ICD-9-CM
414.1	Aneurysm and dissection of heart	Diagnosis	ICD-9-CM
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	Diagnosis	ICD-9-CM
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	Diagnosis	ICD-9-CM
414.05	Coronary atherosclerosis of unspecified type of bypass graft	Diagnosis	ICD-9-CM
414.04	Coronary atherosclerosis of artery bypass graft	Diagnosis	ICD-9-CM
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	Diagnosis	ICD-9-CM
414.02	Coronary atherosclerosis of autologous vein bypass graft	Diagnosis	ICD-9-CM
414.01	Coronary atherosclerosis of native coronary artery	Diagnosis	ICD-9-CM
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	Diagnosis	ICD-9-CM
414.0	Coronary atherosclerosis	Diagnosis	ICD-9-CM
414	Other forms of chronic ischemic heart disease	Diagnosis	ICD-9-CM
413.9	Other and unspecified angina pectoris	Diagnosis	ICD-9-CM
413.1	Prinzmetal angina	Diagnosis	ICD-9-CM
413.0	Angina decubitus	Diagnosis	ICD-9-CM
413	Angina pectoris	Diagnosis	ICD-9-CM
412	Old myocardial infarction	Diagnosis	ICD-9-CM
411.89	Other acute and subacute form of ischemic heart disease	Diagnosis	ICD-9-CM
411.81	Acute coronary occlusion without myocardial infarction	Diagnosis	ICD-9-CM
411.8	Other acute and subacute forms of ischemic heart disease	Diagnosis	ICD-9-CM
411.1	Intermediate coronary syndrome	Diagnosis	ICD-9-CM
411.0	Postmyocardial infarction syndrome	Diagnosis	ICD-9-CM
411	Other acute and subacute forms of ischemic heart disease	Diagnosis	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	Diagnosis	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	Diagnosis	ICD-9-CM

Appendix E. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Sudden Cardiac Death (SCD) in Algorithm #2

Code	Description	Code Category	Code Type
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	Diagnosis	ICD-9-CM
410.9	Acute myocardial infarction, unspecified site	Diagnosis	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	Diagnosis	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	Diagnosis	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	Diagnosis	ICD-9-CM
410.8	Acute myocardial infarction of other specified sites	Diagnosis	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	Diagnosis	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.7	Acute myocardial infarction, subendocardial infarction	Diagnosis	ICD-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	Diagnosis	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.6	Acute myocardial infarction, true posterior wall infarction	Diagnosis	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.5	Acute myocardial infarction of other lateral wall	Diagnosis	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	Diagnosis	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.4	Acute myocardial infarction of other inferior wall	Diagnosis	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.3	Acute myocardial infarction of inferoposterior wall	Diagnosis	ICD-9-CM
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.2	Acute myocardial infarction of inferolateral wall	Diagnosis	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	Diagnosis	ICD-9-CM

Appendix E. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Diagnosis Codes Used to Define Sudden Cardiac Death (SCD) in Algorithm #2

Code	Description	Code Category	Code Type
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.1	Acute myocardial infarction of other anterior wall	Diagnosis	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.0	Acute myocardial infarction of anterolateral wall	Diagnosis	ICD-9-CM
410	Acute myocardial infarction	Diagnosis	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.9	Unspecified hypertensive heart disease	Diagnosis	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.1	Benign hypertensive heart disease	Diagnosis	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.0	Malignant hypertensive heart disease	Diagnosis	ICD-9-CM
402	Hypertensive heart disease	Diagnosis	ICD-9-CM
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM
I21	Acute myocardial infarction	Diagnosis	ICD-10-CM
I20	Angina pectoris	Diagnosis	ICD-10-CM
I46	Cardiac arrest	Diagnosis	ICD-10-CM
I49.9	Cardiac arrhythmia, unspecified	Diagnosis	ICD-10-CM
I42.9	Cardiomyopathy, unspecified	Diagnosis	ICD-10-CM
I25	Chronic ischemic heart disease	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I51.9	Heart disease, unspecified	Diagnosis	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I25.2	Old myocardial infarction	Diagnosis	ICD-10-CM
I24	Other acute ischemic heart diseases	Diagnosis	ICD-10-CM
I70.9	Other and unspecified atherosclerosis	Diagnosis	ICD-10-CM
I42.8	Other cardiomyopathies	Diagnosis	ICD-10-CM
I49.0	Ventricular fibrillation and flutter	Diagnosis	ICD-10-CM
I47.2	Ventricular tachycardia	Diagnosis	ICD-10-CM
149.8	Other specified cardiac arrhythmias	Diagnosis	ICD-10-CM
I51.6	Cardiovascular disease, unspecified	Diagnosis	ICD-10-CM
R96	Other sudden death, cause unknown	Diagnosis	ICD-10-CM
R98	Unattended death	Diagnosis	ICD-10-CM