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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 1 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 adults in the United States, 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 1 of 2. This report contains data from Data Partners that do not populate the Cause of Death (COD) table. Report 2 contains data from Data Partners that populate the Cause of Death (COD) table.

Sentinel Modular Program Tool Used: Ad hoc program

Data Source: We included data from three Data Partners in the Sentinel Distributed Database (SDD) that do not use the 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 both 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 SCD.

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.

See Appendix D for a list of ICD-9-CM and ICD-10-CM diagnoses codes used to define SCD in algorithm #1.

Algorithm #2: We did not include results for SCD algorithm #2 in this report because it required COD and State death certificate information unavailable at the Sentinel Data Partners included in this report.

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

Limitations: Algorithms used to define exposures and exclusion criteria 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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**Glossary of Terms for Analyses Using
Cohort Identification and Descriptive Analysis (CIDA) Module***

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category			Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
(Years)	Sex	Year			Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
All	All	All	All	All	414,634	228,430	2,708,797	2,708,797	393,766,813	127,262,267	58.0	0.1	40.6
<45	All	All	All	All	2,737	1,327	58,516	58,516	207,075,163.6	79,190,332	0.6	0.0	.
45-54	All	All	All	All	10,941	5,106	96,915	96,915	61,794,592.8	25,010,181	8.3	0.1	.
55-64	All	All	All	All	39,718	18,908	220,937	220,937	53,098,714.1	20,106,607	35.6	0.1	.
65-74	All	All	All	All	82,947	45,611	537,377	537,377	39,512,574.6	14,381,563	115.4	0.1	.
75-84	All	All	All	All	141,316	78,601	809,323	809,323	22,817,158.8	7,498,320	344.5	0.1	.
85+	All	All	All	All	136,975	78,877	985,729	985,729	9,456,365.1	3,227,699	834.1	0.1	.
All	F	All	All	All	167,572	95,022	1,434,192	1,434,192	203,083,174.3	64,914,217	46.8	0.1	.
All	M	All	All	All	247,062	133,408	1,274,605	1,274,605	190,683,638.6	62,348,050	70.0	0.1	.
<45	F	All	All	All	976	503	21,865	21,865	103,088,479.6	39,431,049	0.5	0.0	.
<45	M	All	All	All	1,761	824	36,651	36,651	103,986,684.0	39,759,283	0.8	0.0	.
45-54	F	All	All	All	3,307	1,682	39,469	39,469	31,609,440.6	12,724,125	5.3	0.0	.
45-54	M	All	All	All	7,634	3,424	57,446	57,446	30,185,152.3	12,286,056	11.3	0.1	.
55-64	F	All	All	All	12,007	6,036	89,960	89,960	27,525,676.9	10,337,903	21.9	0.1	.
55-64	M	All	All	All	27,711	12,872	130,977	130,977	25,573,037.3	9,768,704	50.3	0.1	.
65-74	F	All	All	All	28,242	16,082	239,070	239,070	21,260,019.2	7,647,608	75.6	0.1	.
65-74	M	All	All	All	54,705	29,529	298,307	298,307	18,252,555.4	6,733,955	161.8	0.1	.
75-84	F	All	All	All	55,010	30,985	408,614	408,614	13,189,699.3	4,277,308	234.9	0.1	.
75-84	M	All	All	All	86,306	47,616	400,709	400,709	9,627,459.4	3,221,012	494.6	0.1	.
85+	F	All	All	All	68,030	39,734	635,214	635,214	6,404,612.6	2,117,300	620.4	0.1	.
85+	M	All	All	All	68,945	39,143	350,515	350,515	3,051,752.5	1,110,399	1282.6	0.1	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	10,822	5,631	35,818	35,818	8,086,004.8	18,065,591	69.6	0.2	74.6
All	All	2007	All	All	24,543	13,042	94,496	94,496	17,297,202.4	26,483,395	75.4	0.1	72.9
All	All	2008	All	All	45,524	24,542	284,891	284,891	30,967,085.6	46,558,226	79.3	0.1	51.7
All	All	2009	All	All	56,584	29,560	285,871	285,871	37,720,256.7	46,401,612	78.4	0.1	58.2
All	All	2010	All	All	54,238	28,500	273,230	273,230	36,995,638.5	45,779,795	77.0	0.1	57.3
All	All	2011	All	All	54,602	28,629	279,350	279,350	38,569,326.1	47,817,043	74.2	0.1	53.7
All	All	2012	All	All	37,409	20,809	250,088	250,088	39,961,454.0	48,876,848	52.1	0.1	36.0

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	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
All	All	All	2013	All	All	34,617	19,541	262,878	262,878	40,854,392.3	49,650,082	47.8	0.1	32.5
All	All	All	2014	All	All	31,626	18,148	273,460	273,460	40,849,917.1	50,917,319	44.4	0.1	29.1
All	All	All	2015	All	All	29,161	17,380	282,071	282,071	41,799,437.6	51,404,679	41.6	0.1	27.2
All	All	All	2016	All	All	25,511	16,255	281,276	281,276	43,290,574.8	53,150,819	37.5	0.1	24.5
All	All	All	2017	All	All	9,997	6,393	105,368	105,368	17,375,523.1	46,620,837	36.8	0.1	25.3
<45	All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	All	2006	All	All	68	35	1,549	1,549	4,747,973.7	10,942,714	0.7	0.0	.
<45	All	All	2007	All	All	162	92	3,557	3,557	9,915,137.9	13,947,994	0.9	0.0	.
<45	All	All	2008	All	All	395	183	7,232	7,232	16,151,162.2	26,320,475	1.1	0.0	.
<45	All	All	2009	All	All	405	211	7,666	7,666	20,439,137.4	26,648,612	1.0	0.0	.
<45	All	All	2010	All	All	341	170	7,232	7,232	19,924,414.7	26,000,505	0.9	0.0	.
<45	All	All	2011	All	All	407	169	6,870	6,870	20,554,906.4	26,737,666	0.8	0.0	.
<45	All	All	2012	All	All	245	113	4,683	4,683	21,032,836.7	27,056,975	0.5	0.0	.
<45	All	All	2013	All	All	146	90	4,793	4,793	21,367,084.9	27,362,701	0.4	0.0	.
<45	All	All	2014	All	All	187	84	4,519	4,519	21,026,033.3	27,542,363	0.4	0.0	.
<45	All	All	2015	All	All	156	78	4,448	4,448	21,230,330.3	27,500,630	0.4	0.0	.
<45	All	All	2016	All	All	156	71	4,383	4,383	21,811,573.9	28,400,809	0.3	0.0	.
<45	All	All	2017	All	All	69	31	1,584	1,584	8,874,572.1	24,219,439	0.3	0.0	.
45-54	All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	All	2006	All	All	332	170	2,114	2,114	1,415,857.6	3,234,537	12.0	0.1	.
45-54	All	All	2007	All	All	687	339	5,085	5,085	2,997,185.9	4,316,677	11.3	0.1	.
45-54	All	All	2008	All	All	1,366	624	11,509	11,509	4,961,945.0	7,895,521	12.6	0.1	.
45-54	All	All	2009	All	All	1,756	788	12,254	12,254	6,204,305.4	8,088,645	12.7	0.1	.
45-54	All	All	2010	All	All	1,559	687	11,211	11,211	6,121,765.0	8,018,533	11.2	0.1	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
					Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
45-54	All	2011	All	All	1,352	620	10,645	10,645	6,251,633.9	8,161,573	9.9	0.1	.
45-54	All	2012	All	All	813	366	8,131	8,131	6,270,588.3	8,130,604	5.8	0.0	.
45-54	All	2013	All	All	858	398	8,450	8,450	6,283,878.2	8,111,767	6.3	0.0	.
45-54	All	2014	All	All	668	336	8,408	8,408	6,139,597.1	8,160,649	5.5	0.0	.
45-54	All	2015	All	All	634	328	8,183	8,183	6,212,655.8	8,160,127	5.3	0.0	.
45-54	All	2016	All	All	686	328	7,928	7,928	6,364,415.4	8,374,274	5.2	0.0	.
45-54	All	2017	All	All	230	122	2,997	2,997	2,570,765.2	7,009,192	4.7	0.0	.
55-64	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2006	All	All	980	483	4,258	4,258	1,039,471.8	2,327,974	46.5	0.1	.
55-64	All	2007	All	All	2,152	1,031	9,783	9,783	2,249,160.5	3,250,421	45.8	0.1	.
55-64	All	2008	All	All	4,387	2,072	22,901	22,901	3,794,039.7	5,807,570	54.6	0.1	.
55-64	All	2009	All	All	5,763	2,568	25,035	25,035	4,780,158.5	6,052,747	53.7	0.1	.
55-64	All	2010	All	All	5,426	2,462	23,760	23,760	4,890,657.9	6,258,023	50.3	0.1	.
55-64	All	2011	All	All	5,457	2,429	23,991	23,991	5,196,485.2	6,603,249	46.7	0.1	.
55-64	All	2012	All	All	3,329	1,595	18,876	18,876	5,342,819.0	6,781,508	29.9	0.1	.
55-64	All	2013	All	All	3,173	1,527	19,771	19,771	5,557,619.8	6,992,237	27.5	0.1	.
55-64	All	2014	All	All	2,817	1,385	21,073	21,073	5,617,227.5	7,301,154	24.7	0.1	.
55-64	All	2015	All	All	2,741	1,419	21,514	21,514	5,880,571.3	7,490,221	24.1	0.1	.
55-64	All	2016	All	All	2,494	1,383	21,748	21,748	6,194,950.9	7,896,025	22.3	0.1	.
55-64	All	2017	All	All	999	554	8,227	8,227	2,555,551.9	6,825,468	21.7	0.1	.
65-74	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2006	All	All	1,825	941	5,850	5,850	460,073.5	1,027,824	204.5	0.2	.
65-74	All	2007	All	All	4,353	2,212	15,814	15,814	1,125,842.6	3,061,586	196.5	0.1	.
65-74	All	2008	All	All	8,709	4,576	52,677	52,677	3,201,930.1	4,307,896	142.9	0.1	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
					Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
65-74	All	2009	All	All	10,621	5,498	51,019	51,019	3,308,089.0	3,954,854	166.2	0.1	.
65-74	All	2010	All	All	10,394	5,347	47,746	47,746	3,153,852.1	3,849,042	169.5	0.1	.
65-74	All	2011	All	All	10,094	5,245	49,463	49,463	3,475,804.8	4,465,221	150.9	0.1	.
65-74	All	2012	All	All	7,444	4,143	48,693	48,693	3,993,919.1	4,956,195	103.7	0.1	.
65-74	All	2013	All	All	6,914	3,953	53,061	53,061	4,217,092.3	5,136,655	93.7	0.1	.
65-74	All	2014	All	All	6,884	3,991	58,055	58,055	4,521,995.5	5,705,200	88.3	0.1	.
65-74	All	2015	All	All	6,907	4,103	63,397	63,397	4,879,900.6	6,058,593	84.1	0.1	.
65-74	All	2016	All	All	6,470	4,099	67,075	67,075	5,208,978.0	6,299,272	78.7	0.1	.
65-74	All	2017	All	All	2,332	1,503	24,527	24,527	1,965,097.0	5,523,622	76.5	0.1	.
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2006	All	All	3,919	1,993	10,430	10,430	294,824.3	642,927	676.0	0.2	.
75-84	All	2007	All	All	8,541	4,588	27,864	27,864	708,211.3	1,951,887	647.8	0.2	.
75-84	All	2008	All	All	15,906	8,748	87,887	87,887	2,043,089.4	2,707,768	428.2	0.1	.
75-84	All	2009	All	All	19,955	10,487	88,069	88,069	2,123,362.6	2,497,042	493.9	0.1	.
75-84	All	2010	All	All	18,675	9,917	82,673	82,673	2,045,374.8	2,427,589	484.9	0.1	.
75-84	All	2011	All	All	18,716	9,919	84,082	84,082	2,174,440.2	2,650,425	456.2	0.1	.
75-84	All	2012	All	All	12,698	7,049	74,492	74,492	2,331,612.7	2,782,281	302.3	0.1	.
75-84	All	2013	All	All	11,314	6,504	77,445	77,445	2,398,654.2	2,856,169	271.2	0.1	.
75-84	All	2014	All	All	10,338	5,998	80,112	80,112	2,485,837.0	3,004,667	241.3	0.1	.
75-84	All	2015	All	All	9,554	5,765	82,382	82,382	2,548,398.7	3,071,150	226.2	0.1	.
75-84	All	2016	All	All	8,412	5,452	82,836	82,836	2,654,531.4	3,133,442	205.4	0.1	.
75-84	All	2017	All	All	3,288	2,181	31,051	31,051	1,008,822.3	2,798,229	216.2	0.1	.
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2006	All	All	3,698	2,009	11,617	11,617	126,671.4	278,633	1586.0	0.2	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	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
85+	All		2007	All	All	8,648	4,780	32,393	32,393	299,554.2	799,599	1595.7	0.1	.
85+	All		2008	All	All	14,761	8,339	102,685	102,685	812,963.2	1,096,847	1025.8	0.1	.
85+	All		2009	All	All	18,084	10,008	101,828	101,828	863,557.2	1,039,032	1158.9	0.1	.
85+	All		2010	All	All	17,843	9,917	100,608	100,608	858,175.0	1,035,179	1155.6	0.1	.
85+	All		2011	All	All	18,576	10,247	104,299	104,299	914,880.0	1,127,971	1120.0	0.1	.
85+	All		2012	All	All	12,880	7,543	95,213	95,213	988,689.8	1,198,443	762.9	0.1	.
85+	All		2013	All	All	12,212	7,069	99,358	99,358	1,029,227.2	1,246,878	686.8	0.1	.
85+	All		2014	All	All	10,732	6,354	101,293	101,293	1,058,731.3	1,285,229	600.2	0.1	.
85+	All		2015	All	All	9,169	5,687	102,147	102,147	1,047,270.7	1,282,193	543.0	0.1	.
85+	All		2016	All	All	7,293	4,922	97,306	97,306	1,055,949.6	1,265,551	466.1	0.1	.
85+	All		2017	All	All	3,079	2,002	36,982	36,982	400,695.5	1,102,829	499.6	0.1	.
All	F		2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M		2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F		2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M		2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F		2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M		2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F		2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M		2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F		2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M		2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F		2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M		2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F		2006	All	All	4,784	2,512	18,437	18,437	4,145,279.9	9,236,450	60.6	0.1	.
All	M		2006	All	All	6,038	3,119	17,381	17,381	3,940,724.9	8,829,141	79.1	0.2	.
All	F		2007	All	All	11,003	5,932	50,064	50,064	8,881,385.6	13,874,081	66.8	0.1	.
All	M		2007	All	All	13,540	7,110	44,432	44,432	8,415,816.8	12,609,314	84.5	0.2	.
All	F		2008	All	All	19,036	10,440	155,163	155,163	16,170,665.9	24,087,750	64.6	0.1	.
All	M		2008	All	All	26,488	14,102	129,728	129,728	14,796,419.7	22,470,476	95.3	0.1	.
All	F		2009	All	All	22,801	12,269	150,116	150,116	19,546,364.6	23,896,783	62.8	0.1	.
All	M		2009	All	All	33,783	17,291	135,755	135,755	18,173,892.1	22,504,829	95.1	0.1	.
All	F		2010	All	All	21,807	11,791	144,018	144,018	19,165,001.8	23,590,881	61.5	0.1	.
All	M		2010	All	All	32,431	16,709	129,212	129,212	17,830,636.6	22,188,914	93.7	0.1	.
All	F		2011	All	All	21,448	11,643	146,815	146,815	19,927,025.0	24,571,873	58.4	0.1	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
					Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
All	M	2011	All	All	33,154	16,986	132,535	132,535	18,642,301.0	23,245,170	91.1	0.1	.
All	F	2012	All	All	15,059	8,642	133,567	133,567	20,621,822.4	25,095,276	41.9	0.1	.
All	M	2012	All	All	22,350	12,167	116,521	116,521	19,339,631.7	23,781,572	62.9	0.1	.
All	F	2013	All	All	13,835	8,118	140,393	140,393	21,063,045.1	25,502,930	38.5	0.1	.
All	M	2013	All	All	20,782	11,423	122,485	122,485	19,791,347.2	24,147,152	57.7	0.1	.
All	F	2014	All	All	12,538	7,439	145,207	145,207	21,001,749.9	26,091,104	35.4	0.1	.
All	M	2014	All	All	19,088	10,709	128,253	128,253	19,848,167.2	24,826,215	54.0	0.1	.
All	F	2015	All	All	11,526	7,048	148,589	148,589	21,465,811.4	26,297,821	32.8	0.0	.
All	M	2015	All	All	17,635	10,332	133,482	133,482	20,333,626.1	25,106,858	50.8	0.1	.
All	F	2016	All	All	9,871	6,592	146,774	146,774	22,206,255.5	27,148,782	29.7	0.0	.
All	M	2016	All	All	15,640	9,663	134,502	134,502	21,084,319.3	26,002,037	45.8	0.1	.
All	F	2017	All	All	3,864	2,596	55,049	55,049	8,888,767.1	23,847,420	29.2	0.0	.
All	M	2017	All	All	6,133	3,797	50,319	50,319	8,486,756.0	22,773,417	44.7	0.1	.
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2006	All	All	36	16	529	529	2,371,748.7	5,460,859	0.7	0.0	.
<45	M	2006	All	All	32	19	1,020	1,020	2,376,225.1	5,481,855	0.8	0.0	.
<45	F	2007	All	All	61	34	1,290	1,290	4,944,571.7	6,944,075	0.7	0.0	.
<45	M	2007	All	All	101	58	2,267	2,267	4,970,566.2	7,003,919	1.2	0.0	.
<45	F	2008	All	All	140	73	2,691	2,691	8,072,326.7	13,145,671	0.9	0.0	.
<45	M	2008	All	All	255	110	4,541	4,541	8,078,835.5	13,174,804	1.4	0.0	.
<45	F	2009	All	All	160	78	2,856	2,856	10,225,878.5	13,313,744	0.8	0.0	.
<45	M	2009	All	All	245	133	4,810	4,810	10,213,259.0	13,334,868	1.3	0.0	.
<45	F	2010	All	All	114	66	2,672	2,672	9,983,178.5	13,015,039	0.7	0.0	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	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
<45	M	2010	All	All	227	104	4,560	4,560	9,941,236.1	12,985,466	1.0	0.0	.	
<45	F	2011	All	All	115	56	2,469	2,469	10,269,962.6	13,326,447	0.5	0.0	.	
<45	M	2011	All	All	292	113	4,401	4,401	10,284,943.8	13,411,219	1.1	0.0	.	
<45	F	2012	All	All	72	38	1,699	1,699	10,481,430.6	13,466,022	0.4	0.0	.	
<45	M	2012	All	All	173	75	2,984	2,984	10,551,406.1	13,590,953	0.7	0.0	.	
<45	F	2013	All	All	76	43	1,826	1,826	10,634,621.6	13,616,785	0.4	0.0	.	
<45	M	2013	All	All	70	47	2,967	2,967	10,732,463.3	13,745,916	0.4	0.0	.	
<45	F	2014	All	All	72	32	1,719	1,719	10,424,061.1	13,659,429	0.3	0.0	.	
<45	M	2014	All	All	115	52	2,800	2,800	10,601,972.2	13,882,934	0.5	0.0	.	
<45	F	2015	All	All	65	30	1,744	1,744	10,513,900.0	13,606,886	0.3	0.0	.	
<45	M	2015	All	All	91	48	2,704	2,704	10,716,430.3	13,893,744	0.4	0.0	.	
<45	F	2016	All	All	44	26	1,758	1,758	10,783,083.3	14,034,771	0.2	0.0	.	
<45	M	2016	All	All	112	45	2,625	2,625	11,028,490.6	14,366,038	0.4	0.0	.	
<45	F	2017	All	All	21	11	612	612	4,383,716.3	11,967,814	0.3	0.0	.	
<45	M	2017	All	All	48	20	972	972	4,490,855.8	12,251,625	0.4	0.0	.	
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
45-54	F	2006	All	All	85	46	854	854	729,588.4	1,663,943	6.3	0.1	.	
45-54	M	2006	All	All	247	124	1,260	1,260	686,269.2	1,570,594	18.1	0.1	.	
45-54	F	2007	All	All	253	133	2,091	2,091	1,541,777.1	2,206,942	8.6	0.1	.	
45-54	M	2007	All	All	434	206	2,994	2,994	1,455,408.9	2,109,735	14.2	0.1	.	
45-54	F	2008	All	All	475	210	4,612	4,612	2,552,609.4	4,052,806	8.2	0.0	.	
45-54	M	2008	All	All	891	414	6,897	6,897	2,409,335.6	3,842,715	17.2	0.1	.	
45-54	F	2009	All	All	497	248	5,062	5,062	3,195,760.8	4,148,514	7.8	0.0	.	

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category		Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
(Years)	Sex				Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
45-54	M	2009	All	All	1,259	540	7,192	7,192	3,008,544.6	3,940,131	17.9	0.1	.
45-54	F	2010	All	All	479	225	4,613	4,613	3,154,587.0	4,117,406	7.1	0.0	.
45-54	M	2010	All	All	1,080	462	6,598	6,598	2,967,178.0	3,901,127	15.6	0.1	.
45-54	F	2011	All	All	396	188	4,233	4,233	3,210,115.2	4,171,962	5.9	0.0	.
45-54	M	2011	All	All	956	432	6,412	6,412	3,041,518.7	3,989,611	14.2	0.1	.
45-54	F	2012	All	All	205	119	3,245	3,245	3,209,759.2	4,145,650	3.7	0.0	.
45-54	M	2012	All	All	608	247	4,886	4,886	3,060,829.1	3,984,954	8.1	0.1	.
45-54	F	2013	All	All	238	139	3,414	3,414	3,211,918.8	4,137,960	4.3	0.0	.
45-54	M	2013	All	All	620	259	5,036	5,036	3,071,959.3	3,973,807	8.4	0.1	.
45-54	F	2014	All	All	216	106	3,458	3,458	3,118,457.7	4,142,614	3.4	0.0	.
45-54	M	2014	All	All	452	230	4,950	4,950	3,021,139.5	4,018,035	7.6	0.0	.
45-54	F	2015	All	All	172	102	3,342	3,342	3,153,784.3	4,137,772	3.2	0.0	.
45-54	M	2015	All	All	462	226	4,841	4,841	3,058,871.5	4,022,355	7.4	0.0	.
45-54	F	2016	All	All	213	122	3,321	3,321	3,227,928.1	4,242,130	3.8	0.0	.
45-54	M	2016	All	All	473	206	4,607	4,607	3,136,487.3	4,132,144	6.6	0.0	.
45-54	F	2017	All	All	78	44	1,224	1,224	1,303,154.5	3,549,217	3.4	0.0	.
45-54	M	2017	All	All	152	78	1,773	1,773	1,267,610.6	3,459,975	6.2	0.0	.
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2006	All	All	303	154	1,765	1,765	536,700.1	1,200,502	28.7	0.1	.
55-64	M	2006	All	All	677	329	2,493	2,493	502,771.7	1,127,472	65.4	0.1	.
55-64	F	2007	All	All	634	300	3,968	3,968	1,161,590.7	1,678,053	25.8	0.1	.
55-64	M	2007	All	All	1,518	731	5,815	5,815	1,087,569.8	1,572,368	67.2	0.1	.
55-64	F	2008	All	All	1,344	654	9,499	9,499	1,972,242.2	3,013,819	33.2	0.1	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category		Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
(Years)	Sex				Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
55-64	M	2008	All	All	3,043	1,418	13,402	13,402	1,821,797.6	2,793,751	77.8	0.1	.
55-64	F	2009	All	All	1,652	826	10,186	10,186	2,490,431.6	3,136,413	33.2	0.1	.
55-64	M	2009	All	All	4,111	1,742	14,849	14,849	2,289,726.9	2,916,334	76.1	0.1	.
55-64	F	2010	All	All	1,615	778	9,653	9,653	2,553,674.5	3,254,415	30.5	0.1	.
55-64	M	2010	All	All	3,811	1,684	14,107	14,107	2,336,983.4	3,003,608	72.1	0.1	.
55-64	F	2011	All	All	1,632	765	9,733	9,733	2,709,113.7	3,423,769	28.2	0.1	.
55-64	M	2011	All	All	3,825	1,664	14,258	14,258	2,487,371.5	3,179,480	66.9	0.1	.
55-64	F	2012	All	All	997	514	7,672	7,672	2,777,980.7	3,506,829	18.5	0.1	.
55-64	M	2012	All	All	2,332	1,081	11,204	11,204	2,564,838.3	3,274,679	42.1	0.1	.
55-64	F	2013	All	All	940	464	8,006	8,006	2,886,142.7	3,622,071	16.1	0.1	.
55-64	M	2013	All	All	2,233	1,063	11,765	11,765	2,671,477.0	3,370,166	39.8	0.1	.
55-64	F	2014	All	All	890	454	8,589	8,589	2,897,079.6	3,761,050	15.7	0.1	.
55-64	M	2014	All	All	1,927	931	12,484	12,484	2,720,147.9	3,540,104	34.2	0.1	.
55-64	F	2015	All	All	893	476	8,676	8,676	3,031,012.2	3,855,408	15.7	0.1	.
55-64	M	2015	All	All	1,848	943	12,838	12,838	2,849,559.1	3,634,813	33.1	0.1	.
55-64	F	2016	All	All	817	462	8,827	8,827	3,194,084.4	4,060,872	14.5	0.1	.
55-64	M	2016	All	All	1,677	921	12,921	12,921	3,000,866.5	3,835,153	30.7	0.1	.
55-64	F	2017	All	All	290	189	3,386	3,386	1,315,624.4	3,509,732	14.4	0.1	.
55-64	M	2017	All	All	709	365	4,841	4,841	1,239,927.5	3,315,736	29.4	0.1	.
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2006	All	All	610	319	2,480	2,480	241,737.8	538,088	132.0	0.1	.
65-74	M	2006	All	All	1,215	622	3,370	3,370	218,335.7	489,736	284.9	0.2	.
65-74	F	2007	All	All	1,554	805	6,991	6,991	597,270.2	1,695,088	134.8	0.1	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	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
65-74	M	2007	All	All	2,799	1,407	8,823	8,823	528,572.4	1,366,498	266.2	0.2	.	
65-74	F	2008	All	All	2,858	1,560	23,811	23,811	1,753,642.0	2,334,159	89.0	0.1	.	
65-74	M	2008	All	All	5,851	3,016	28,866	28,866	1,448,288.1	1,973,737	208.2	0.1	.	
65-74	F	2009	All	All	3,685	1,918	22,369	22,369	1,780,123.5	2,114,196	107.7	0.1	.	
65-74	M	2009	All	All	6,936	3,580	28,650	28,650	1,527,965.4	1,840,658	234.3	0.1	.	
65-74	F	2010	All	All	3,435	1,844	21,221	21,221	1,687,993.5	2,046,054	109.2	0.1	.	
65-74	M	2010	All	All	6,959	3,503	26,525	26,525	1,465,858.6	1,802,988	239.0	0.1	.	
65-74	F	2011	All	All	3,258	1,771	21,781	21,781	1,856,522.9	2,378,887	95.4	0.1	.	
65-74	M	2011	All	All	6,836	3,474	27,682	27,682	1,619,281.9	2,086,334	214.5	0.1	.	
65-74	F	2012	All	All	2,570	1,473	21,573	21,573	2,141,739.5	2,646,897	68.8	0.1	.	
65-74	M	2012	All	All	4,874	2,670	27,120	27,120	1,852,179.5	2,309,298	144.2	0.1	.	
65-74	F	2013	All	All	2,402	1,434	23,858	23,858	2,264,201.1	2,745,599	63.3	0.1	.	
65-74	M	2013	All	All	4,512	2,519	29,203	29,203	1,952,891.2	2,391,056	129.0	0.1	.	
65-74	F	2014	All	All	2,381	1,421	25,937	25,937	2,435,712.2	3,061,371	58.3	0.1	.	
65-74	M	2014	All	All	4,503	2,570	32,118	32,118	2,086,283.4	2,643,829	123.2	0.1	.	
65-74	F	2015	All	All	2,384	1,487	28,247	28,247	2,630,182.7	3,249,260	56.5	0.1	.	
65-74	M	2015	All	All	4,523	2,616	35,150	35,150	2,249,717.9	2,809,333	116.3	0.1	.	
65-74	F	2016	All	All	2,295	1,503	29,939	29,939	2,812,848.4	3,382,438	53.4	0.1	.	
65-74	M	2016	All	All	4,175	2,596	37,136	37,136	2,396,129.6	2,916,834	108.3	0.1	.	
65-74	F	2017	All	All	810	547	10,863	10,863	1,058,045.4	2,976,923	51.7	0.1	.	
65-74	M	2017	All	All	1,522	956	13,664	13,664	907,051.6	2,546,699	105.4	0.1	.	
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2006	All	All	1,662	854	5,211	5,211	174,129.5	378,671	490.4	0.2	.	

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category		Year	Race	Hispanic	MI-Related	Members with MI-Related	Records of	Members with	Eligible Member-Years	Eligible Members	Rate of MI-Related Death	Rate of MI-Related Death	Age Standardized Death Rate
(Years)	Sex				Death Codes	Death Codes	Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	among all Deaths	
75-84	M	2006	All	All	2,257	1,139	5,219	5,219	120,694.8	264,256	943.7	0.2	.
75-84	F	2007	All	All	3,581	1,919	14,243	14,243	420,968.1	1,212,571	455.9	0.1	.
75-84	M	2007	All	All	4,960	2,669	13,621	13,621	287,243.1	739,316	929.2	0.2	.
75-84	F	2008	All	All	6,421	3,531	46,396	46,396	1,241,739.7	1,623,410	284.4	0.1	.
75-84	M	2008	All	All	9,485	5,217	41,491	41,491	801,349.7	1,084,358	651.0	0.1	.
75-84	F	2009	All	All	7,786	4,144	44,791	44,791	1,257,873.6	1,471,072	329.4	0.1	.
75-84	M	2009	All	All	12,169	6,343	43,278	43,278	865,489.0	1,025,970	732.9	0.1	.
75-84	F	2010	All	All	7,334	3,899	42,080	42,080	1,198,001.9	1,414,000	325.5	0.1	.
75-84	M	2010	All	All	11,341	6,018	40,593	40,593	847,372.9	1,013,589	710.2	0.1	.
75-84	F	2011	All	All	7,067	3,797	42,042	42,042	1,260,150.0	1,529,048	301.3	0.1	.
75-84	M	2011	All	All	11,649	6,122	42,040	42,040	914,290.2	1,121,377	669.6	0.1	.
75-84	F	2012	All	All	4,890	2,714	37,626	37,626	1,344,101.5	1,596,607	201.9	0.1	.
75-84	M	2012	All	All	7,808	4,335	36,866	36,866	987,511.3	1,185,674	439.0	0.1	.
75-84	F	2013	All	All	4,305	2,558	39,151	39,151	1,375,502.0	1,631,275	186.0	0.1	.
75-84	M	2013	All	All	7,009	3,946	38,294	38,294	1,023,152.2	1,224,894	385.7	0.1	.
75-84	F	2014	All	All	3,893	2,336	40,169	40,169	1,419,162.9	1,706,706	164.6	0.1	.
75-84	M	2014	All	All	6,445	3,662	39,943	39,943	1,066,674.0	1,297,961	343.3	0.1	.
75-84	F	2015	All	All	3,694	2,244	40,884	40,884	1,441,481.0	1,730,757	155.7	0.1	.
75-84	M	2015	All	All	5,860	3,521	41,498	41,498	1,106,917.7	1,340,393	318.1	0.1	.
75-84	F	2016	All	All	3,088	2,102	40,733	40,733	1,491,798.6	1,755,879	140.9	0.1	.
75-84	M	2016	All	All	5,324	3,350	42,103	42,103	1,162,732.7	1,377,563	288.1	0.1	.
75-84	F	2017	All	All	1,289	887	15,288	15,288	564,790.5	1,566,304	157.0	0.1	.
75-84	M	2017	All	All	1,999	1,294	15,763	15,763	444,031.7	1,231,925	291.4	0.1	.
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	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 Death Codes	Members with MI-Related Death Codes	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
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2006	All	All	2,088	1,123	7,598	7,598	90,896.0	198,659	1235.5	0.1	.
85+	M	2006	All	All	1,610	886	4,019	4,019	35,775.4	79,974	2476.6	0.2	.
85+	F	2007	All	All	4,920	2,741	21,481	21,481	214,306.7	580,606	1279.0	0.1	.
85+	M	2007	All	All	3,728	2,039	10,912	10,912	85,247.5	218,993	2391.9	0.2	.
85+	F	2008	All	All	7,798	4,412	68,154	68,154	577,262.0	763,162	764.3	0.1	.
85+	M	2008	All	All	6,963	3,927	34,531	34,531	235,701.2	333,685	1666.1	0.1	.
85+	F	2009	All	All	9,021	5,055	64,852	64,852	595,591.0	709,022	848.7	0.1	.
85+	M	2009	All	All	9,063	4,953	36,976	36,976	267,966.2	330,010	1848.4	0.1	.
85+	F	2010	All	All	8,830	4,979	63,779	63,779	586,975.3	700,625	848.2	0.1	.
85+	M	2010	All	All	9,013	4,938	36,829	36,829	271,199.7	334,554	1820.8	0.1	.
85+	F	2011	All	All	8,980	5,066	66,557	66,557	620,676.4	757,785	816.2	0.1	.
85+	M	2011	All	All	9,596	5,181	37,742	37,742	294,203.7	370,186	1761.0	0.1	.
85+	F	2012	All	All	6,325	3,784	61,752	61,752	666,402.8	799,987	567.8	0.1	.
85+	M	2012	All	All	6,555	3,759	33,461	33,461	322,287.0	398,456	1166.4	0.1	.
85+	F	2013	All	All	5,874	3,480	64,138	64,138	690,290.0	829,329	504.1	0.1	.
85+	M	2013	All	All	6,338	3,589	35,220	35,220	338,937.1	417,549	1058.9	0.1	.
85+	F	2014	All	All	5,086	3,090	65,335	65,335	707,049.2	850,270	437.0	0.0	.
85+	M	2014	All	All	5,646	3,264	35,958	35,958	351,682.0	434,959	928.1	0.1	.
85+	F	2015	All	All	4,318	2,709	65,696	65,696	695,311.3	843,783	389.6	0.0	.
85+	M	2015	All	All	4,851	2,978	36,451	36,451	351,959.4	438,410	846.1	0.1	.
85+	F	2016	All	All	3,414	2,377	62,196	62,196	696,426.2	828,286	341.3	0.0	.
85+	M	2016	All	All	3,879	2,545	35,110	35,110	359,523.4	437,265	707.9	0.1	.
85+	F	2017	All	All	1,376	918	23,676	23,676	263,425.7	722,729	348.5	0.0	.
85+	M	2017	All	All	1,703	1,084	13,306	13,306	137,269.8	380,100	789.7	0.1	.
All	All	All	American Indian/ Alaskan Native	All	319	221	7,693	7,693	173,255.5	63,303	127.6	0.0	.
All	All	All	Asian	All	653	452	19,635	19,635	635,651.5	253,613	71.1	0.0	.
All	All	All	Black/ African American	All	10,617	7,745	156,398	156,398	4,008,828.5	1,425,842	193.2	0.0	.
All	All	All	Native Hawaiian/ Pacific Islander	All	873	628	14,326	14,326	537,389.3	188,292	116.9	0.0	.
All	All	All	Unknown	All	302,289	149,837	1,049,957	1,049,957	352,491,565.1	114,674,600	42.5	0.1	.
All	All	All	White	All	99,883	69,547	1,460,788	1,460,788	35,920,123.0	10,656,617	193.6	0.0	.

Table 1. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Primary Analysis

Age Category (Years)			Sex	Year	Race	Hispanic	MI-Related Death Codes	Members with MI-Related Death Codes	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
All	All	All	All	All	All	No	112,345	78,593	1,658,841	1,658,841	41,275,279.1	12,587,672	190.4	0.0	.
All	All	All	All	All	All	Unknown	300,414	148,539	1,016,919	1,016,919	351,576,768.0	114,311,713	42.2	0.1	.
All	All	All	All	All	All	Yes	1,875	1,298	33,037	33,037	914,765.8	362,882	141.9	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category			Race	Hispanic	MI-Related	Members	Records of	Members with	Eligible	Eligible	Rate of MI-	Rate of MI-	Age Standardized
(Years)	Sex	Year			Death	with MI-	Death in	Record of Death			in Death Table	per 100,000	
				Codes	Related	Death Table	in Death Table	Member-Years	Members	Member-Years	Deaths	Deaths	
All	All	All	All	All	148,111	90,009	2,708,797	2,708,797	393,766,813	127,262,267	22.9	0.0	16.1
<45	All	All	All	All	1,420	768	58,516	58,516	207,075,163.6	79,190,332	0.4	0.0	.
45-54	All	All	All	All	5,125	2,729	96,915	96,915	61,794,592.8	25,010,181	4.4	0.0	.
55-64	All	All	All	All	16,184	8,732	220,937	220,937	53,098,714.1	20,106,607	16.4	0.0	.
65-74	All	All	All	All	30,744	18,986	537,377	537,377	39,512,574.6	14,381,563	48.1	0.0	.
75-84	All	All	All	All	48,158	29,748	809,323	809,323	22,817,158.8	7,498,320	130.4	0.0	.
85+	All	All	All	All	46,480	29,046	985,729	985,729	9,456,365.1	3,227,699	307.2	0.0	.
All	F	All	All	All	61,003	37,513	1,434,192	1,434,192	203,083,174.3	64,914,217	18.5	0.0	.
All	M	All	All	All	87,108	52,496	1,274,605	1,274,605	190,683,638.6	62,348,050	27.5	0.0	.
<45	F	All	All	All	539	292	21,865	21,865	103,088,479.6	39,431,049	0.3	0.0	.
<45	M	All	All	All	881	476	36,651	36,651	103,986,684.0	39,759,283	0.5	0.0	.
45-54	F	All	All	All	1,536	858	39,469	39,469	31,609,440.6	12,724,125	2.7	0.0	.
45-54	M	All	All	All	3,589	1,871	57,446	57,446	30,185,152.3	12,286,056	6.2	0.0	.
55-64	F	All	All	All	4,848	2,727	89,960	89,960	27,525,676.9	10,337,903	9.9	0.0	.
55-64	M	All	All	All	11,336	6,005	130,977	130,977	25,573,037.3	9,768,704	23.5	0.0	.
65-74	F	All	All	All	10,597	6,647	239,070	239,070	21,260,019.2	7,647,608	31.3	0.0	.
65-74	M	All	All	All	20,147	12,339	298,307	298,307	18,252,555.4	6,733,955	67.6	0.0	.
75-84	F	All	All	All	19,383	12,008	408,614	408,614	13,189,699.3	4,277,308	91.0	0.0	.
75-84	M	All	All	All	28,775	17,740	400,709	400,709	9,627,459.4	3,221,012	184.3	0.0	.
85+	F	All	All	All	24,100	14,981	635,214	635,214	6,404,612.6	2,117,300	233.9	0.0	.
85+	M	All	All	All	22,380	14,065	350,515	350,515	3,051,752.5	1,110,399	460.9	0.0	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	3,425	2,035	35,818	35,818	8,086,004.8	18,065,591	25.2	0.1	26.7
All	All	2007	All	All	8,289	4,902	94,496	94,496	17,297,202.4	26,483,395	28.3	0.1	27.2
All	All	2008	All	All	16,318	9,716	284,891	284,891	30,967,085.6	46,558,226	31.4	0.0	20.7
All	All	2009	All	All	20,572	11,811	285,871	285,871	37,720,256.7	46,401,612	31.3	0.0	23.3
All	All	2010	All	All	19,502	11,284	273,230	273,230	36,995,638.5	45,779,795	30.5	0.0	22.7
All	All	2011	All	All	19,746	11,394	279,350	279,350	38,569,326.1	47,817,043	29.5	0.0	21.4
All	All	2012	All	All	13,600	8,381	250,088	250,088	39,961,454.0	48,876,848	21.0	0.0	14.5
All	All	2013	All	All	12,397	7,694	262,878	262,878	40,854,392.3	49,650,082	18.8	0.0	12.8

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category		Year	Race	Hispanic	Members		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
(Years)	Sex				MI-Related Death Codes	with MI-Related Death Codes					Member-Years	Member-Years	Member-Years
All	All	2014	All	All	11,240	7,078	273,460	273,460	40,849,917.1	50,917,319	17.3	0.0	11.4
All	All	2015	All	All	10,323	6,829	282,071	282,071	41,799,437.6	51,404,679	16.3	0.0	10.7
All	All	2016	All	All	9,175	6,381	281,276	281,276	43,290,574.8	53,150,819	14.7	0.0	9.7
All	All	2017	All	All	3,524	2,504	105,368	105,368	17,375,523.1	46,620,837	14.4	0.0	9.9
<45	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2006	All	All	34	20	1,549	1,549	4,747,973.7	10,942,714	0.4	0.0	.
<45	All	2007	All	All	87	46	3,557	3,557	9,915,137.9	13,947,994	0.5	0.0	.
<45	All	2008	All	All	176	103	7,232	7,232	16,151,162.2	26,320,475	0.6	0.0	.
<45	All	2009	All	All	243	121	7,666	7,666	20,439,137.4	26,648,612	0.6	0.0	.
<45	All	2010	All	All	201	102	7,232	7,232	19,924,414.7	26,000,505	0.5	0.0	.
<45	All	2011	All	All	204	105	6,870	6,870	20,554,906.4	26,737,666	0.5	0.0	.
<45	All	2012	All	All	116	72	4,683	4,683	21,032,836.7	27,056,975	0.3	0.0	.
<45	All	2013	All	All	91	54	4,793	4,793	21,367,084.9	27,362,701	0.3	0.0	.
<45	All	2014	All	All	59	37	4,519	4,519	21,026,033.3	27,542,363	0.2	0.0	.
<45	All	2015	All	All	72	42	4,448	4,448	21,230,330.3	27,500,630	0.2	0.0	.
<45	All	2016	All	All	90	44	4,383	4,383	21,811,573.9	28,400,809	0.2	0.0	.
<45	All	2017	All	All	47	22	1,584	1,584	8,874,572.1	24,219,439	0.2	0.0	.
45-54	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2006	All	All	171	94	2,114	2,114	1,415,857.6	3,234,537	6.6	0.0	.
45-54	All	2007	All	All	308	174	5,085	5,085	2,997,185.9	4,316,677	5.8	0.0	.
45-54	All	2008	All	All	656	333	11,509	11,509	4,961,945.0	7,895,521	6.7	0.0	.
45-54	All	2009	All	All	790	393	12,254	12,254	6,204,305.4	8,088,645	6.3	0.0	.
45-54	All	2010	All	All	761	396	11,211	11,211	6,121,765.0	8,018,533	6.5	0.0	.
45-54	All	2011	All	All	683	352	10,645	10,645	6,251,633.9	8,161,573	5.6	0.0	.
45-54	All	2012	All	All	376	202	8,131	8,131	6,270,588.3	8,130,604	3.2	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category						Members		Records of		Members with		Rate of MI-	Rate of MI-	Age Standardized
(Years)	Sex	Year	Race	Hispanic	MI-Related Death Codes	with MI-Related Death Codes	Death Table	in Death Table	Record of Death in Death Table	Eligible Member-Years	Eligible Members	Related Death per 100,000 Member-Years	Related Death among all Deaths	Death Rate
45-54	All	2013	All	All	372	193	8,450	8,450	8,450	6,283,878.2	8,111,767	3.1	0.0	.
45-54	All	2014	All	All	302	176	8,408	8,408	8,408	6,139,597.1	8,160,649	2.9	0.0	.
45-54	All	2015	All	All	274	167	8,183	8,183	8,183	6,212,655.8	8,160,127	2.7	0.0	.
45-54	All	2016	All	All	330	185	7,928	7,928	7,928	6,364,415.4	8,374,274	2.9	0.0	.
45-54	All	2017	All	All	102	64	2,997	2,997	2,997	2,570,765.2	7,009,192	2.5	0.0	.
55-64	All	2000	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2001	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2002	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2003	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2004	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2005	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2006	All	All	327	202	4,258	4,258	4,258	1,039,471.8	2,327,974	19.4	0.0	.
55-64	All	2007	All	All	825	455	9,783	9,783	9,783	2,249,160.5	3,250,421	20.2	0.0	.
55-64	All	2008	All	All	1,749	969	22,901	22,901	22,901	3,794,039.7	5,807,570	25.5	0.0	.
55-64	All	2009	All	All	2,486	1,245	25,035	25,035	25,035	4,780,158.5	6,052,747	26.0	0.0	.
55-64	All	2010	All	All	2,068	1,051	23,760	23,760	23,760	4,890,657.9	6,258,023	21.5	0.0	.
55-64	All	2011	All	All	2,376	1,217	23,991	23,991	23,991	5,196,485.2	6,603,249	23.4	0.1	.
55-64	All	2012	All	All	1,378	749	18,876	18,876	18,876	5,342,819.0	6,781,508	14.0	0.0	.
55-64	All	2013	All	All	1,226	684	19,771	19,771	19,771	5,557,619.8	6,992,237	12.3	0.0	.
55-64	All	2014	All	All	1,133	622	21,073	21,073	21,073	5,617,227.5	7,301,154	11.1	0.0	.
55-64	All	2015	All	All	1,177	687	21,514	21,514	21,514	5,880,571.3	7,490,221	11.7	0.0	.
55-64	All	2016	All	All	1,054	607	21,748	21,748	21,748	6,194,950.9	7,896,025	9.8	0.0	.
55-64	All	2017	All	All	385	244	8,227	8,227	8,227	2,555,551.9	6,825,468	9.5	0.0	.
65-74	All	2000	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2001	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2002	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2003	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2004	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2005	All	All	0	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2006	All	All	645	370	5,850	5,850	5,850	460,073.5	1,027,824	80.4	0.1	.
65-74	All	2007	All	All	1,504	846	15,814	15,814	15,814	1,125,842.6	3,061,586	75.1	0.1	.
65-74	All	2008	All	All	3,278	1,921	52,677	52,677	52,677	3,201,930.1	4,307,896	60.0	0.0	.
65-74	All	2009	All	All	3,971	2,312	51,019	51,019	51,019	3,308,089.0	3,954,854	69.9	0.0	.
65-74	All	2010	All	All	3,849	2,261	47,746	47,746	47,746	3,153,852.1	3,849,042	71.7	0.0	.
65-74	All	2011	All	All	3,739	2,189	49,463	49,463	49,463	3,475,804.8	4,465,221	63.0	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category		Year	Race	Hispanic	Members			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
(Years)	Sex				MI-Related Death Codes	with MI-Related Death Codes	Records of Death in Death Table						
65-74	All	2012	All	All	2,926	1,817	48,693	48,693	3,993,919.1	4,956,195	45.5	0.0	.
65-74	All	2013	All	All	2,608	1,682	53,061	53,061	4,217,092.3	5,136,655	39.9	0.0	.
65-74	All	2014	All	All	2,507	1,605	58,055	58,055	4,521,995.5	5,705,200	35.5	0.0	.
65-74	All	2015	All	All	2,535	1,695	63,397	63,397	4,879,900.6	6,058,593	34.7	0.0	.
65-74	All	2016	All	All	2,330	1,652	67,075	67,075	5,208,978.0	6,299,272	31.7	0.0	.
65-74	All	2017	All	All	852	636	24,527	24,527	1,965,097.0	5,523,622	32.4	0.0	.
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2006	All	All	1,119	672	10,430	10,430	294,824.3	642,927	227.9	0.1	.
75-84	All	2007	All	All	2,747	1,646	27,864	27,864	708,211.3	1,951,887	232.4	0.1	.
75-84	All	2008	All	All	5,486	3,366	87,887	87,887	2,043,089.4	2,707,768	164.8	0.0	.
75-84	All	2009	All	All	6,954	4,098	88,069	88,069	2,123,362.6	2,497,042	193.0	0.0	.
75-84	All	2010	All	All	6,325	3,699	82,673	82,673	2,045,374.8	2,427,589	180.8	0.0	.
75-84	All	2011	All	All	6,393	3,770	84,082	84,082	2,174,440.2	2,650,425	173.4	0.0	.
75-84	All	2012	All	All	4,397	2,707	74,492	74,492	2,331,612.7	2,782,281	116.1	0.0	.
75-84	All	2013	All	All	3,988	2,475	77,445	77,445	2,398,654.2	2,856,169	103.2	0.0	.
75-84	All	2014	All	All	3,545	2,255	80,112	80,112	2,485,837.0	3,004,667	90.7	0.0	.
75-84	All	2015	All	All	3,111	2,129	82,382	82,382	2,548,398.7	3,071,150	83.5	0.0	.
75-84	All	2016	All	All	2,946	2,111	82,836	82,836	2,654,531.4	3,133,442	79.5	0.0	.
75-84	All	2017	All	All	1,147	820	31,051	31,051	1,008,822.3	2,798,229	81.3	0.0	.
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2006	All	All	1,129	677	11,617	11,617	126,671.4	278,633	534.5	0.1	.
85+	All	2007	All	All	2,818	1,735	32,393	32,393	299,554.2	799,599	579.2	0.1	.
85+	All	2008	All	All	4,973	3,024	102,685	102,685	812,963.2	1,096,847	372.0	0.0	.
85+	All	2009	All	All	6,128	3,642	101,828	101,828	863,557.2	1,039,032	421.7	0.0	.
85+	All	2010	All	All	6,298	3,775	100,608	100,608	858,175.0	1,035,179	439.9	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category		Year	Race	Hispanic	Members		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
(Years)	Sex				MI-Related Death Codes	with MI-Related Death Codes							
85+	All	2011	All	All	6,351	3,761	104,299	104,299	914,880.0	1,127,971	411.1	0.0	.
85+	All	2012	All	All	4,407	2,834	95,213	95,213	988,689.8	1,198,443	286.6	0.0	.
85+	All	2013	All	All	4,112	2,606	99,358	99,358	1,029,227.2	1,246,878	253.2	0.0	.
85+	All	2014	All	All	3,694	2,383	101,293	101,293	1,058,731.3	1,285,229	225.1	0.0	.
85+	All	2015	All	All	3,154	2,109	102,147	102,147	1,047,270.7	1,282,193	201.4	0.0	.
85+	All	2016	All	All	2,425	1,782	97,306	97,306	1,055,949.6	1,265,551	168.8	0.0	.
85+	All	2017	All	All	991	718	36,982	36,982	400,695.5	1,102,829	179.2	0.0	.
All	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2006	All	All	1,552	923	18,437	18,437	4,145,279.9	9,236,450	22.3	0.1	.
All	M	2006	All	All	1,873	1,112	17,381	17,381	3,940,724.9	8,829,141	28.2	0.1	.
All	F	2007	All	All	3,770	2,216	50,064	50,064	8,881,385.6	13,874,081	25.0	0.0	.
All	M	2007	All	All	4,519	2,686	44,432	44,432	8,415,816.8	12,609,314	31.9	0.1	.
All	F	2008	All	All	6,909	4,108	155,163	155,163	16,170,665.9	24,087,750	25.4	0.0	.
All	M	2008	All	All	9,409	5,608	129,728	129,728	14,796,419.7	22,470,476	37.9	0.0	.
All	F	2009	All	All	8,352	4,818	150,116	150,116	19,546,364.6	23,896,783	24.6	0.0	.
All	M	2009	All	All	12,220	6,993	135,755	135,755	18,173,892.1	22,504,829	38.5	0.1	.
All	F	2010	All	All	8,013	4,712	144,018	144,018	19,165,001.8	23,590,881	24.6	0.0	.
All	M	2010	All	All	11,489	6,572	129,212	129,212	17,830,636.6	22,188,914	36.9	0.1	.
All	F	2011	All	All	7,726	4,560	146,815	146,815	19,927,025.0	24,571,873	22.9	0.0	.
All	M	2011	All	All	12,020	6,834	132,535	132,535	18,642,301.0	23,245,170	36.7	0.1	.
All	F	2012	All	All	5,671	3,508	133,567	133,567	20,621,822.4	25,095,276	17.0	0.0	.
All	M	2012	All	All	7,929	4,873	116,521	116,521	19,339,631.7	23,781,572	25.2	0.0	.
All	F	2013	All	All	5,178	3,233	140,393	140,393	21,063,045.1	25,502,930	15.3	0.0	.
All	M	2013	All	All	7,219	4,461	122,485	122,485	19,791,347.2	24,147,152	22.5	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category		Year	Race	Hispanic	Members		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
(Years)	Sex				MI-Related Death Codes	with MI-Related Death Codes							
All	F	2014	All	All	4,559	2,978	145,207	145,207	21,001,749.9	26,091,104	14.2	0.0	.
All	M	2014	All	All	6,681	4,100	128,253	128,253	19,848,167.2	24,826,215	20.7	0.0	.
All	F	2015	All	All	4,243	2,801	148,589	148,589	21,465,811.4	26,297,821	13.0	0.0	.
All	M	2015	All	All	6,080	4,028	133,482	133,482	20,333,626.1	25,106,858	19.8	0.0	.
All	F	2016	All	All	3,629	2,622	146,774	146,774	22,206,255.5	27,148,782	11.8	0.0	.
All	M	2016	All	All	5,546	3,759	134,502	134,502	21,084,319.3	26,002,037	17.8	0.0	.
All	F	2017	All	All	1,401	1,034	55,049	55,049	8,888,767.1	23,847,420	11.6	0.0	.
All	M	2017	All	All	2,123	1,470	50,319	50,319	8,486,756.0	22,773,417	17.3	0.0	.
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2006	All	All	21	10	529	529	2,371,748.7	5,460,859	0.4	0.0	.
<45	M	2006	All	All	13	10	1,020	1,020	2,376,225.1	5,481,855	0.4	0.0	.
<45	F	2007	All	All	38	19	1,290	1,290	4,944,571.7	6,944,075	0.4	0.0	.
<45	M	2007	All	All	49	27	2,267	2,267	4,970,566.2	7,003,919	0.5	0.0	.
<45	F	2008	All	All	76	42	2,691	2,691	8,072,326.7	13,145,671	0.5	0.0	.
<45	M	2008	All	All	100	61	4,541	4,541	8,078,835.5	13,174,804	0.8	0.0	.
<45	F	2009	All	All	102	43	2,856	2,856	10,225,878.5	13,313,744	0.4	0.0	.
<45	M	2009	All	All	141	78	4,810	4,810	10,213,259.0	13,334,868	0.8	0.0	.
<45	F	2010	All	All	68	39	2,672	2,672	9,983,178.5	13,015,039	0.4	0.0	.
<45	M	2010	All	All	133	63	4,560	4,560	9,941,236.1	12,985,466	0.6	0.0	.
<45	F	2011	All	All	67	34	2,469	2,469	10,269,962.6	13,326,447	0.3	0.0	.
<45	M	2011	All	All	137	71	4,401	4,401	10,284,943.8	13,411,219	0.7	0.0	.
<45	F	2012	All	All	37	25	1,699	1,699	10,481,430.6	13,466,022	0.2	0.0	.
<45	M	2012	All	All	79	47	2,984	2,984	10,551,406.1	13,590,953	0.4	0.0	.
<45	F	2013	All	All	45	27	1,826	1,826	10,634,621.6	13,616,785	0.3	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category		Members				Rate of MI-Related Death		Rate of MI-Related Death		Rate of MI-Related Death		Rate of MI-Related Death	
(Years)	Sex	Year	Race	Hispanic	MI-Related Death Codes	with MI-Related Death Codes	Records of Death in Death Table	Members with Record of Death in Death Table	Eligible Member-Years	Eligible Members	per 100,000 Member-Years	among all Deaths	Age Standardized Death Rate
<45	M	2013	All	All	46	27	2,967	2,967	10,732,463.3	13,745,916	0.3	0.0	.
<45	F	2014	All	All	15	14	1,719	1,719	10,424,061.1	13,659,429	0.1	0.0	.
<45	M	2014	All	All	44	23	2,800	2,800	10,601,972.2	13,882,934	0.2	0.0	.
<45	F	2015	All	All	25	14	1,744	1,744	10,513,900.0	13,606,886	0.1	0.0	.
<45	M	2015	All	All	47	28	2,704	2,704	10,716,430.3	13,893,744	0.3	0.0	.
<45	F	2016	All	All	28	17	1,758	1,758	10,783,083.3	14,034,771	0.2	0.0	.
<45	M	2016	All	All	62	27	2,625	2,625	11,028,490.6	14,366,038	0.2	0.0	.
<45	F	2017	All	All	17	8	612	612	4,383,716.3	11,967,814	0.2	0.0	.
<45	M	2017	All	All	30	14	972	972	4,490,855.8	12,251,625	0.3	0.0	.
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2006	All	All	43	25	854	854	729,588.4	1,663,943	3.4	0.0	.
45-54	M	2006	All	All	128	69	1,260	1,260	686,269.2	1,570,594	10.1	0.1	.
45-54	F	2007	All	All	124	70	2,091	2,091	1,541,777.1	2,206,942	4.5	0.0	.
45-54	M	2007	All	All	184	104	2,994	2,994	1,455,408.9	2,109,735	7.1	0.0	.
45-54	F	2008	All	All	222	105	4,612	4,612	2,552,609.4	4,052,806	4.1	0.0	.
45-54	M	2008	All	All	434	228	6,897	6,897	2,409,335.6	3,842,715	9.5	0.0	.
45-54	F	2009	All	All	206	113	5,062	5,062	3,195,760.8	4,148,514	3.5	0.0	.
45-54	M	2009	All	All	584	280	7,192	7,192	3,008,544.6	3,940,131	9.3	0.0	.
45-54	F	2010	All	All	236	125	4,613	4,613	3,154,587.0	4,117,406	4.0	0.0	.
45-54	M	2010	All	All	525	271	6,598	6,598	2,967,178.0	3,901,127	9.1	0.0	.
45-54	F	2011	All	All	191	102	4,233	4,233	3,210,115.2	4,171,962	3.2	0.0	.
45-54	M	2011	All	All	492	250	6,412	6,412	3,041,518.7	3,989,611	8.2	0.0	.
45-54	F	2012	All	All	98	61	3,245	3,245	3,209,759.2	4,145,650	1.9	0.0	.
45-54	M	2012	All	All	278	141	4,886	4,886	3,060,829.1	3,984,954	4.6	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category						Members		Records of		Members with		Rate of MI-	Rate of MI-	Age Standardized
(Years)	Sex	Year	Race	Hispanic	MI-Related Death Codes	with MI-Related Death Codes	Death in Death Table	Record of Death in Death Table	Eligible Member-Years	Eligible Members	Related Death per 100,000 Member-Years	Related Death among all Deaths	Death Rate	
45-54	F	2013	All	All	109	66	3,414	3,414	3,211,918.8	4,137,960	2.1	0.0	.	
45-54	M	2013	All	All	263	127	5,036	5,036	3,071,959.3	3,973,807	4.1	0.0	.	
45-54	F	2014	All	All	96	58	3,458	3,458	3,118,457.7	4,142,614	1.9	0.0	.	
45-54	M	2014	All	All	206	118	4,950	4,950	3,021,139.5	4,018,035	3.9	0.0	.	
45-54	F	2015	All	All	74	50	3,342	3,342	3,153,784.3	4,137,772	1.6	0.0	.	
45-54	M	2015	All	All	200	117	4,841	4,841	3,058,871.5	4,022,355	3.8	0.0	.	
45-54	F	2016	All	All	99	62	3,321	3,321	3,227,928.1	4,242,130	1.9	0.0	.	
45-54	M	2016	All	All	231	123	4,607	4,607	3,136,487.3	4,132,144	3.9	0.0	.	
45-54	F	2017	All	All	38	21	1,224	1,224	1,303,154.5	3,549,217	1.6	0.0	.	
45-54	M	2017	All	All	64	43	1,773	1,773	1,267,610.6	3,459,975	3.4	0.0	.	
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2006	All	All	100	63	1,765	1,765	536,700.1	1,200,502	11.7	0.0	.	
55-64	M	2006	All	All	227	139	2,493	2,493	502,771.7	1,127,472	27.6	0.1	.	
55-64	F	2007	All	All	234	122	3,968	3,968	1,161,590.7	1,678,053	10.5	0.0	.	
55-64	M	2007	All	All	591	333	5,815	5,815	1,087,569.8	1,572,368	30.6	0.1	.	
55-64	F	2008	All	All	539	299	9,499	9,499	1,972,242.2	3,013,819	15.2	0.0	.	
55-64	M	2008	All	All	1,210	670	13,402	13,402	1,821,797.6	2,793,751	36.8	0.0	.	
55-64	F	2009	All	All	734	396	10,186	10,186	2,490,431.6	3,136,413	15.9	0.0	.	
55-64	M	2009	All	All	1,752	849	14,849	14,849	2,289,726.9	2,916,334	37.1	0.1	.	
55-64	F	2010	All	All	586	313	9,653	9,653	2,553,674.5	3,254,415	12.3	0.0	.	
55-64	M	2010	All	All	1,482	738	14,107	14,107	2,336,983.4	3,003,608	31.6	0.1	.	
55-64	F	2011	All	All	673	365	9,733	9,733	2,709,113.7	3,423,769	13.5	0.0	.	
55-64	M	2011	All	All	1,703	852	14,258	14,258	2,487,371.5	3,179,480	34.3	0.1	.	
55-64	F	2012	All	All	387	222	7,672	7,672	2,777,980.7	3,506,829	8.0	0.0	.	

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category			Race	Hispanic	Members				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
(Years)	Sex	Year			MI-Related Death Codes	with MI-Related Death Codes	Records of Death in Death Table	Members with Record of Death in Death Table					
55-64	M	2012	All	All	991	527	11,204	11,204	2,564,838.3	3,274,679	20.5	0.0	.
55-64	F	2013	All	All	374	223	8,006	8,006	2,886,142.7	3,622,071	7.7	0.0	.
55-64	M	2013	All	All	852	461	11,765	11,765	2,671,477.0	3,370,166	17.3	0.0	.
55-64	F	2014	All	All	384	215	8,589	8,589	2,897,079.6	3,761,050	7.4	0.0	.
55-64	M	2014	All	All	749	407	12,484	12,484	2,720,147.9	3,540,104	15.0	0.0	.
55-64	F	2015	All	All	373	225	8,676	8,676	3,031,012.2	3,855,408	7.4	0.0	.
55-64	M	2015	All	All	804	462	12,838	12,838	2,849,559.1	3,634,813	16.2	0.0	.
55-64	F	2016	All	All	335	196	8,827	8,827	3,194,084.4	4,060,872	6.1	0.0	.
55-64	M	2016	All	All	719	411	12,921	12,921	3,000,866.5	3,835,153	13.7	0.0	.
55-64	F	2017	All	All	129	88	3,386	3,386	1,315,624.4	3,509,732	6.7	0.0	.
55-64	M	2017	All	All	256	156	4,841	4,841	1,239,927.5	3,315,736	12.6	0.0	.
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2006	All	All	227	125	2,480	2,480	241,737.8	538,088	51.7	0.1	.
65-74	M	2006	All	All	418	245	3,370	3,370	218,335.7	489,736	112.2	0.1	.
65-74	F	2007	All	All	503	281	6,991	6,991	597,270.2	1,695,088	47.0	0.0	.
65-74	M	2007	All	All	1,001	565	8,823	8,823	528,572.4	1,366,498	106.9	0.1	.
65-74	F	2008	All	All	1,073	644	23,811	23,811	1,753,642.0	2,334,159	36.7	0.0	.
65-74	M	2008	All	All	2,205	1,277	28,866	28,866	1,448,288.1	1,973,737	88.2	0.0	.
65-74	F	2009	All	All	1,357	783	22,369	22,369	1,780,123.5	2,114,196	44.0	0.0	.
65-74	M	2009	All	All	2,614	1,529	28,650	28,650	1,527,965.4	1,840,658	100.1	0.1	.
65-74	F	2010	All	All	1,308	779	21,221	21,221	1,687,993.5	2,046,054	46.1	0.0	.
65-74	M	2010	All	All	2,541	1,482	26,525	26,525	1,465,858.6	1,802,988	101.1	0.1	.
65-74	F	2011	All	All	1,181	711	21,781	21,781	1,856,522.9	2,378,887	38.3	0.0	.
65-74	M	2011	All	All	2,558	1,478	27,682	27,682	1,619,281.9	2,086,334	91.3	0.1	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category			Race	Hispanic	Members		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
(Years)	Sex	Year			MI-Related Death Codes	with MI-Related Death Codes							
65-74	F	2012	All	All	1,105	677	21,573	21,573	2,141,739.5	2,646,897	31.6	0.0	.
65-74	M	2012	All	All	1,821	1,140	27,120	27,120	1,852,179.5	2,309,298	61.5	0.0	.
65-74	F	2013	All	All	956	611	23,858	23,858	2,264,201.1	2,745,599	27.0	0.0	.
65-74	M	2013	All	All	1,652	1,071	29,203	29,203	1,952,891.2	2,391,056	54.8	0.0	.
65-74	F	2014	All	All	831	560	25,937	25,937	2,435,712.2	3,061,371	23.0	0.0	.
65-74	M	2014	All	All	1,676	1,045	32,118	32,118	2,086,283.4	2,643,829	50.1	0.0	.
65-74	F	2015	All	All	912	620	28,247	28,247	2,630,182.7	3,249,260	23.6	0.0	.
65-74	M	2015	All	All	1,623	1,075	35,150	35,150	2,249,717.9	2,809,333	47.8	0.0	.
65-74	F	2016	All	All	836	612	29,939	29,939	2,812,848.4	3,382,438	21.8	0.0	.
65-74	M	2016	All	All	1,494	1,040	37,136	37,136	2,396,129.6	2,916,834	43.4	0.0	.
65-74	F	2017	All	All	308	244	10,863	10,863	1,058,045.4	2,976,923	23.1	0.0	.
65-74	M	2017	All	All	544	392	13,664	13,664	907,051.6	2,546,699	43.2	0.0	.
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2006	All	All	489	299	5,211	5,211	174,129.5	378,671	171.7	0.1	.
75-84	M	2006	All	All	630	373	5,219	5,219	120,694.8	264,256	309.0	0.1	.
75-84	F	2007	All	All	1,194	703	14,243	14,243	420,968.1	1,212,571	167.0	0.0	.
75-84	M	2007	All	All	1,553	943	13,621	13,621	287,243.1	739,316	328.3	0.1	.
75-84	F	2008	All	All	2,294	1,394	46,396	46,396	1,241,739.7	1,623,410	112.3	0.0	.
75-84	M	2008	All	All	3,192	1,972	41,491	41,491	801,349.7	1,084,358	246.1	0.0	.
75-84	F	2009	All	All	2,785	1,627	44,791	44,791	1,257,873.6	1,471,072	129.3	0.0	.
75-84	M	2009	All	All	4,169	2,471	43,278	43,278	865,489.0	1,025,970	285.5	0.1	.
75-84	F	2010	All	All	2,514	1,486	42,080	42,080	1,198,001.9	1,414,000	124.0	0.0	.
75-84	M	2010	All	All	3,811	2,213	40,593	40,593	847,372.9	1,013,589	261.2	0.1	.
75-84	F	2011	All	All	2,451	1,466	42,042	42,042	1,260,150.0	1,529,048	116.3	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category			Race	Hispanic	Members		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
(Years)	Sex	Year			MI-Related Death Codes	with MI-Related Death Codes							
75-84	M	2011	All	All	3,942	2,304	42,040	42,040	914,290.2	1,121,377	252.0	0.1	.
75-84	F	2012	All	All	1,793	1,061	37,626	37,626	1,344,101.5	1,596,607	78.9	0.0	.
75-84	M	2012	All	All	2,604	1,646	36,866	36,866	987,511.3	1,185,674	166.7	0.0	.
75-84	F	2013	All	All	1,584	983	39,151	39,151	1,375,502.0	1,631,275	71.5	0.0	.
75-84	M	2013	All	All	2,404	1,492	38,294	38,294	1,023,152.2	1,224,894	145.8	0.0	.
75-84	F	2014	All	All	1,393	928	40,169	40,169	1,419,162.9	1,706,706	65.4	0.0	.
75-84	M	2014	All	All	2,152	1,327	39,943	39,943	1,066,674.0	1,297,961	124.4	0.0	.
75-84	F	2015	All	All	1,257	851	40,884	40,884	1,441,481.0	1,730,757	59.0	0.0	.
75-84	M	2015	All	All	1,854	1,278	41,498	41,498	1,106,917.7	1,340,393	115.5	0.0	.
75-84	F	2016	All	All	1,163	864	40,733	40,733	1,491,798.6	1,755,879	57.9	0.0	.
75-84	M	2016	All	All	1,783	1,247	42,103	42,103	1,162,732.7	1,377,563	107.2	0.0	.
75-84	F	2017	All	All	466	346	15,288	15,288	564,790.5	1,566,304	61.3	0.0	.
75-84	M	2017	All	All	681	474	15,763	15,763	444,031.7	1,231,925	106.7	0.0	.
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2006	All	All	672	401	7,598	7,598	90,896.0	198,659	441.2	0.1	.
85+	M	2006	All	All	457	276	4,019	4,019	35,775.4	79,974	771.5	0.1	.
85+	F	2007	All	All	1,677	1,021	21,481	21,481	214,306.7	580,606	476.4	0.0	.
85+	M	2007	All	All	1,141	714	10,912	10,912	85,247.5	218,993	837.6	0.1	.
85+	F	2008	All	All	2,705	1,624	68,154	68,154	577,262.0	763,162	281.3	0.0	.
85+	M	2008	All	All	2,268	1,400	34,531	34,531	235,701.2	333,685	594.0	0.0	.
85+	F	2009	All	All	3,168	1,856	64,852	64,852	595,591.0	709,022	311.6	0.0	.
85+	M	2009	All	All	2,960	1,786	36,976	36,976	267,966.2	330,010	666.5	0.0	.
85+	F	2010	All	All	3,301	1,970	63,779	63,779	586,975.3	700,625	335.6	0.0	.
85+	M	2010	All	All	2,997	1,805	36,829	36,829	271,199.7	334,554	665.6	0.0	.

Table 2. Crude and Age-Adjusted Rates of Myocardial Infarction (MI)-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Secondary Analysis

Age Category			Race	Hispanic	MI-Related	Members	Records of	Members with	Eligible	Eligible	Rate of MI-	Rate of MI-	Age Standardized
(Years)	Sex	Year			Death	with MI-	Death in	Record of Death			Eligible	Related Death	
					Codes	Related	Death Table	in Death Table	Member-Years	Members	per 100,000	among all	Death Rate
						Death Codes					Member-Years	Deaths	
85+	F	2011	All	All	3,163	1,882	66,557	66,557	620,676.4	757,785	303.2	0.0	.
85+	M	2011	All	All	3,188	1,879	37,742	37,742	294,203.7	370,186	638.7	0.0	.
85+	F	2012	All	All	2,251	1,462	61,752	61,752	666,402.8	799,987	219.4	0.0	.
85+	M	2012	All	All	2,156	1,372	33,461	33,461	322,287.0	398,456	425.7	0.0	.
85+	F	2013	All	All	2,110	1,323	64,138	64,138	690,290.0	829,329	191.7	0.0	.
85+	M	2013	All	All	2,002	1,283	35,220	35,220	338,937.1	417,549	378.5	0.0	.
85+	F	2014	All	All	1,840	1,203	65,335	65,335	707,049.2	850,270	170.1	0.0	.
85+	M	2014	All	All	1,854	1,180	35,958	35,958	351,682.0	434,959	335.5	0.0	.
85+	F	2015	All	All	1,602	1,041	65,696	65,696	695,311.3	843,783	149.7	0.0	.
85+	M	2015	All	All	1,552	1,068	36,451	36,451	351,959.4	438,410	303.4	0.0	.
85+	F	2016	All	All	1,168	871	62,196	62,196	696,426.2	828,286	125.1	0.0	.
85+	M	2016	All	All	1,257	911	35,110	35,110	359,523.4	437,265	253.4	0.0	.
85+	F	2017	All	All	443	327	23,676	23,676	263,425.7	722,729	124.1	0.0	.
85+	M	2017	All	All	548	391	13,306	13,306	137,269.8	380,100	284.8	0.0	.
All	All	All	American Indian/ Alaskan Native	All	142	112	7,693	7,693	173,255.5	63,303	64.6	0.0	.
All	All	All	Asian	All	277	208	19,635	19,635	635,651.5	253,613	32.7	0.0	.
All	All	All	Black/ African American	All	3,875	3,109	156,398	156,398	4,008,828.5	1,425,842	77.6	0.0	.
All	All	All	Native Hawaiian/ Pacific Islander	All	376	291	14,326	14,326	537,389.3	188,292	54.2	0.0	.
All	All	All	Unknown	All	106,184	57,922	1,049,957	1,049,957	352,491,565.1	114,674,600	16.4	0.1	.
All	All	All	White	All	37,257	28,367	1,460,788	1,460,788	35,920,123.0	10,656,617	79.0	0.0	.
All	All	All	All	No	41,927	32,087	1,658,841	1,658,841	41,275,279.1	12,587,672	77.7	0.0	.
All	All	All	All	Unknown	105,506	57,391	1,016,919	1,016,919	351,576,768.0	114,311,713	16.3	0.1	.
All	All	All	All	Yes	678	531	33,037	33,037	914,765.8	362,882	58.0	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category					Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex	Year	Race	Hispanic									
All	All	All	All	All	141,115	81,762	2,708,797	2,708,797	393,766,813	127,262,267	20.8	0.0	14.7
<45	All	All	All	All	3,846	1,717	58,516	58,516	207,075,163.6	79,190,332	0.8	0.0	.
45-54	All	All	All	All	7,133	3,125	96,915	96,915	61,794,592.8	25,010,181	5.1	0.0	.
55-64	All	All	All	All	15,825	7,474	220,937	220,937	53,098,714.1	20,106,607	14.1	0.0	.
65-74	All	All	All	All	25,207	14,666	537,377	537,377	39,512,574.6	14,381,563	37.1	0.0	.
75-84	All	All	All	All	44,680	26,472	809,323	809,323	22,817,158.8	7,498,320	116.0	0.0	.
85+	All	All	All	All	44,424	28,308	985,729	985,729	9,456,365.1	3,227,699	299.4	0.0	.
All	F	All	All	All	75,032	44,448	1,434,192	1,434,192	203,083,174.3	64,914,217	21.9	0.0	.
All	M	All	All	All	66,083	37,314	1,274,605	1,274,605	190,683,638.6	62,348,050	19.6	0.0	.
<45	F	All	All	All	1,695	733	21,865	21,865	103,088,479.6	39,431,049	0.7	0.0	.
<45	M	All	All	All	2,151	984	36,651	36,651	103,986,684.0	39,759,283	0.9	0.0	.
45-54	F	All	All	All	3,053	1,363	39,469	39,469	31,609,440.6	12,724,125	4.3	0.0	.
45-54	M	All	All	All	4,080	1,762	57,446	57,446	30,185,152.3	12,286,056	5.8	0.0	.
55-64	F	All	All	All	6,743	3,245	89,960	89,960	27,525,676.9	10,337,903	11.8	0.0	.
55-64	M	All	All	All	9,082	4,229	130,977	130,977	25,573,037.3	9,768,704	16.5	0.0	.
65-74	F	All	All	All	11,345	6,733	239,070	239,070	21,260,019.2	7,647,608	31.7	0.0	.
65-74	M	All	All	All	13,862	7,933	298,307	298,307	18,252,555.4	6,733,955	43.5	0.0	.
75-84	F	All	All	All	23,597	14,073	408,614	408,614	13,189,699.3	4,277,308	106.7	0.0	.
75-84	M	All	All	All	21,083	12,399	400,709	400,709	9,627,459.4	3,221,012	128.8	0.0	.
85+	F	All	All	All	28,599	18,301	635,214	635,214	6,404,612.6	2,117,300	285.7	0.0	.
85+	M	All	All	All	15,825	10,007	350,515	350,515	3,051,752.5	1,110,399	327.9	0.0	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	3,458	2,239	35,818	35,818	8,086,004.8	18,065,591	27.7	0.1	29.6
All	All	2007	All	All	7,899	5,063	94,496	94,496	17,297,202.4	26,483,395	29.3	0.1	28.2
All	All	2008	All	All	15,221	9,164	284,891	284,891	30,967,085.6	46,558,226	29.6	0.0	19.7
All	All	2009	All	All	21,181	11,534	285,871	285,871	37,720,256.7	46,401,612	30.6	0.0	22.9
All	All	2010	All	All	20,682	11,264	273,230	273,230	36,995,638.5	45,779,795	30.4	0.0	22.9
All	All	2011	All	All	19,923	10,925	279,350	279,350	38,569,326.1	47,817,043	28.3	0.0	20.7
All	All	2012	All	All	14,226	8,079	250,088	250,088	39,961,454.0	48,876,848	20.2	0.0	14.1
All	All	2013	All	All	13,291	7,618	262,878	262,878	40,854,392.3	49,650,082	18.6	0.0	12.8

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex												
All	All	2014	All	All	12,125	7,265	273,460	273,460	40,849,917.1	50,917,319	17.8	0.0	11.8
All	All	2015	All	All	9,345	5,861	282,071	282,071	41,799,437.6	51,404,679	14.0	0.0	9.3
All	All	2016	All	All	2,795	2,035	281,276	281,276	43,290,574.8	53,150,819	4.7	0.0	3.2
All	All	2017	All	All	969	715	105,368	105,368	17,375,523.1	46,620,837	4.1	0.0	2.9
<45	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2006	All	All	94	55	1,549	1,549	4,747,973.7	10,942,714	1.2	0.0	.
<45	All	2007	All	All	182	121	3,557	3,557	9,915,137.9	13,947,994	1.2	0.0	.
<45	All	2008	All	All	462	228	7,232	7,232	16,151,162.2	26,320,475	1.4	0.0	.
<45	All	2009	All	All	684	278	7,666	7,666	20,439,137.4	26,648,612	1.4	0.0	.
<45	All	2010	All	All	688	275	7,232	7,232	19,924,414.7	26,000,505	1.4	0.0	.
<45	All	2011	All	All	593	255	6,870	6,870	20,554,906.4	26,737,666	1.2	0.0	.
<45	All	2012	All	All	358	140	4,683	4,683	21,032,836.7	27,056,975	0.7	0.0	.
<45	All	2013	All	All	287	126	4,793	4,793	21,367,084.9	27,362,701	0.6	0.0	.
<45	All	2014	All	All	231	97	4,519	4,519	21,026,033.3	27,542,363	0.5	0.0	.
<45	All	2015	All	All	158	74	4,448	4,448	21,230,330.3	27,500,630	0.3	0.0	.
<45	All	2016	All	All	80	51	4,383	4,383	21,811,573.9	28,400,809	0.2	0.0	.
<45	All	2017	All	All	29	17	1,584	1,584	8,874,572.1	24,219,439	0.2	0.0	.
45-54	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2006	All	All	175	100	2,114	2,114	1,415,857.6	3,234,537	7.1	0.0	.
45-54	All	2007	All	All	416	239	5,085	5,085	2,997,185.9	4,316,677	8.0	0.0	.
45-54	All	2008	All	All	764	382	11,509	11,509	4,961,945.0	7,895,521	7.7	0.0	.
45-54	All	2009	All	All	1,225	486	12,254	12,254	6,204,305.4	8,088,645	7.8	0.0	.
45-54	All	2010	All	All	1,248	487	11,211	11,211	6,121,765.0	8,018,533	8.0	0.0	.
45-54	All	2011	All	All	1,033	431	10,645	10,645	6,251,633.9	8,161,573	6.9	0.0	.
45-54	All	2012	All	All	631	262	8,131	8,131	6,270,588.3	8,130,604	4.2	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)														
45-54	All	2013	All	All	561	245	8,450	8,450	6,283,878.2	8,111,767	3.9	0.0	.	
45-54	All	2014	All	All	482	204	8,408	8,408	6,139,597.1	8,160,649	3.3	0.0	.	
45-54	All	2015	All	All	389	173	8,183	8,183	6,212,655.8	8,160,127	2.8	0.0	.	
45-54	All	2016	All	All	151	85	7,928	7,928	6,364,415.4	8,374,274	1.3	0.0	.	
45-54	All	2017	All	All	58	31	2,997	2,997	2,570,765.2	7,009,192	1.2	0.0	.	
55-64	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	All	2006	All	All	308	189	4,258	4,258	1,039,471.8	2,327,974	18.2	0.0	.	
55-64	All	2007	All	All	725	427	9,783	9,783	2,249,160.5	3,250,421	19.0	0.0	.	
55-64	All	2008	All	All	1,718	843	22,901	22,901	3,794,039.7	5,807,570	22.2	0.0	.	
55-64	All	2009	All	All	2,478	1,119	25,035	25,035	4,780,158.5	6,052,747	23.4	0.0	.	
55-64	All	2010	All	All	2,461	1,076	23,760	23,760	4,890,657.9	6,258,023	22.0	0.0	.	
55-64	All	2011	All	All	2,410	1,061	23,991	23,991	5,196,485.2	6,603,249	20.4	0.0	.	
55-64	All	2012	All	All	1,496	698	18,876	18,876	5,342,819.0	6,781,508	13.1	0.0	.	
55-64	All	2013	All	All	1,559	676	19,771	19,771	5,557,619.8	6,992,237	12.2	0.0	.	
55-64	All	2014	All	All	1,259	599	21,073	21,073	5,617,227.5	7,301,154	10.7	0.0	.	
55-64	All	2015	All	All	865	474	21,514	21,514	5,880,571.3	7,490,221	8.1	0.0	.	
55-64	All	2016	All	All	411	220	21,748	21,748	6,194,950.9	7,896,025	3.6	0.0	.	
55-64	All	2017	All	All	135	92	8,227	8,227	2,555,551.9	6,825,468	3.6	0.0	.	
65-74	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	All	2006	All	All	582	361	5,850	5,850	460,073.5	1,027,824	78.5	0.1	.	
65-74	All	2007	All	All	1,274	784	15,814	15,814	1,125,842.6	3,061,586	69.6	0.0	.	
65-74	All	2008	All	All	2,705	1,579	52,677	52,677	3,201,930.1	4,307,896	49.3	0.0	.	
65-74	All	2009	All	All	3,631	1,933	51,019	51,019	3,308,089.0	3,954,854	58.4	0.0	.	
65-74	All	2010	All	All	3,395	1,867	47,746	47,746	3,153,852.1	3,849,042	59.2	0.0	.	
65-74	All	2011	All	All	3,256	1,804	49,463	49,463	3,475,804.8	4,465,221	51.9	0.0	.	

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related	Members	Records of	Members with	Eligible Member- Years	Eligible Members	Rate of Stroke-	Rate of Stroke-	Age Standardized
(Years)	Death					with Stroke- Related	Death in	Record of Death	per 100,000			Related Death	Death Rate	
	Codes	Death Codes	Death Table	in Death Table	Member- Years	Member- Years	Member- Years	Member- Years	Member- Years	Member- Years	Member- Years	Member- Years	Member- Years	Member- Years
65-74	All	2012	All	All	2,576	1,470	48,693	48,693	3,993,919.1	4,956,195	36.8	0.0	.	
65-74	All	2013	All	All	2,403	1,416	53,061	53,061	4,217,092.3	5,136,655	33.6	0.0	.	
65-74	All	2014	All	All	2,431	1,484	58,055	58,055	4,521,995.5	5,705,200	32.8	0.0	.	
65-74	All	2015	All	All	2,137	1,310	63,397	63,397	4,879,900.6	6,058,593	26.8	0.0	.	
65-74	All	2016	All	All	600	481	67,075	67,075	5,208,978.0	6,299,272	9.2	0.0	.	
65-74	All	2017	All	All	217	177	24,527	24,527	1,965,097.0	5,523,622	9.0	0.0	.	
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2006	All	All	1,206	777	10,430	10,430	294,824.3	642,927	263.5	0.1	.	
75-84	All	2007	All	All	2,657	1,694	27,864	27,864	708,211.3	1,951,887	239.2	0.1	.	
75-84	All	2008	All	All	4,918	3,027	87,887	87,887	2,043,089.4	2,707,768	148.2	0.0	.	
75-84	All	2009	All	All	6,811	3,792	88,069	88,069	2,123,362.6	2,497,042	178.6	0.0	.	
75-84	All	2010	All	All	6,617	3,653	82,673	82,673	2,045,374.8	2,427,589	178.6	0.0	.	
75-84	All	2011	All	All	6,208	3,502	84,082	84,082	2,174,440.2	2,650,425	161.1	0.0	.	
75-84	All	2012	All	All	4,337	2,588	74,492	74,492	2,331,612.7	2,782,281	111.0	0.0	.	
75-84	All	2013	All	All	4,223	2,455	77,445	77,445	2,398,654.2	2,856,169	102.3	0.0	.	
75-84	All	2014	All	All	3,638	2,249	80,112	80,112	2,485,837.0	3,004,667	90.5	0.0	.	
75-84	All	2015	All	All	2,889	1,857	82,382	82,382	2,548,398.7	3,071,150	72.9	0.0	.	
75-84	All	2016	All	All	873	663	82,836	82,836	2,654,531.4	3,133,442	25.0	0.0	.	
75-84	All	2017	All	All	303	215	31,051	31,051	1,008,822.3	2,798,229	21.3	0.0	.	
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2006	All	All	1,093	757	11,617	11,617	126,671.4	278,633	597.6	0.1	.	
85+	All	2007	All	All	2,645	1,798	32,393	32,393	299,554.2	799,599	600.2	0.1	.	
85+	All	2008	All	All	4,654	3,105	102,685	102,685	812,963.2	1,096,847	381.9	0.0	.	
85+	All	2009	All	All	6,352	3,926	101,828	101,828	863,557.2	1,039,032	454.6	0.0	.	
85+	All	2010	All	All	6,273	3,906	100,608	100,608	858,175.0	1,035,179	455.2	0.0	.	

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
85+	All	2011	All	All	6,423	3,872	104,299	104,299	914,880.0	1,127,971	423.2	0.0	.
85+	All	2012	All	All	4,828	2,921	95,213	95,213	988,689.8	1,198,443	295.4	0.0	.
85+	All	2013	All	All	4,258	2,700	99,358	99,358	1,029,227.2	1,246,878	262.3	0.0	.
85+	All	2014	All	All	4,084	2,632	101,293	101,293	1,058,731.3	1,285,229	248.6	0.0	.
85+	All	2015	All	All	2,907	1,973	102,147	102,147	1,047,270.7	1,282,193	188.4	0.0	.
85+	All	2016	All	All	680	535	97,306	97,306	1,055,949.6	1,265,551	50.7	0.0	.
85+	All	2017	All	All	227	183	36,982	36,982	400,695.5	1,102,829	45.7	0.0	.
All	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2006	All	All	1,918	1,241	18,437	18,437	4,145,279.9	9,236,450	29.9	0.1	.
All	M	2006	All	All	1,540	998	17,381	17,381	3,940,724.9	8,829,141	25.3	0.1	.
All	F	2007	All	All	4,454	2,862	50,064	50,064	8,881,385.6	13,874,081	32.2	0.1	.
All	M	2007	All	All	3,445	2,201	44,432	44,432	8,415,816.8	12,609,314	26.2	0.0	.
All	F	2008	All	All	8,219	4,968	155,163	155,163	16,170,665.9	24,087,750	30.7	0.0	.
All	M	2008	All	All	7,002	4,196	129,728	129,728	14,796,419.7	22,470,476	28.4	0.0	.
All	F	2009	All	All	11,036	6,212	150,116	150,116	19,546,364.6	23,896,783	31.8	0.0	.
All	M	2009	All	All	10,145	5,322	135,755	135,755	18,173,892.1	22,504,829	29.3	0.0	.
All	F	2010	All	All	10,952	6,121	144,018	144,018	19,165,001.8	23,590,881	31.9	0.0	.
All	M	2010	All	All	9,730	5,143	129,212	129,212	17,830,636.6	22,188,914	28.8	0.0	.
All	F	2011	All	All	10,447	5,875	146,815	146,815	19,927,025.0	24,571,873	29.5	0.0	.
All	M	2011	All	All	9,476	5,050	132,535	132,535	18,642,301.0	23,245,170	27.1	0.0	.
All	F	2012	All	All	7,603	4,438	133,567	133,567	20,621,822.4	25,095,276	21.5	0.0	.
All	M	2012	All	All	6,623	3,641	116,521	116,521	19,339,631.7	23,781,572	18.8	0.0	.
All	F	2013	All	All	7,120	4,181	140,393	140,393	21,063,045.1	25,502,930	19.8	0.0	.
All	M	2013	All	All	6,171	3,437	122,485	122,485	19,791,347.2	24,147,152	17.4	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex												
All	F	2014	All	All	6,420	3,952	145,207	145,207	21,001,749.9	26,091,104	18.8	0.0	.
All	M	2014	All	All	5,705	3,313	128,253	128,253	19,848,167.2	24,826,215	16.7	0.0	.
All	F	2015	All	All	4,917	3,171	148,589	148,589	21,465,811.4	26,297,821	14.8	0.0	.
All	M	2015	All	All	4,428	2,690	133,482	133,482	20,333,626.1	25,106,858	13.2	0.0	.
All	F	2016	All	All	1,442	1,050	146,774	146,774	22,206,255.5	27,148,782	4.7	0.0	.
All	M	2016	All	All	1,353	985	134,502	134,502	21,084,319.3	26,002,037	4.7	0.0	.
All	F	2017	All	All	504	377	55,049	55,049	8,888,767.1	23,847,420	4.2	0.0	.
All	M	2017	All	All	465	338	50,319	50,319	8,486,756.0	22,773,417	4.0	0.0	.
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2006	All	All	45	25	529	529	2,371,748.7	5,460,859	1.1	0.0	.
<45	M	2006	All	All	49	30	1,020	1,020	2,376,225.1	5,481,855	1.3	0.0	.
<45	F	2007	All	All	88	55	1,290	1,290	4,944,571.7	6,944,075	1.1	0.0	.
<45	M	2007	All	All	94	66	2,267	2,267	4,970,566.2	7,003,919	1.3	0.0	.
<45	F	2008	All	All	194	93	2,691	2,691	8,072,326.7	13,145,671	1.2	0.0	.
<45	M	2008	All	All	268	135	4,541	4,541	8,078,835.5	13,174,804	1.7	0.0	.
<45	F	2009	All	All	322	129	2,856	2,856	10,225,878.5	13,313,744	1.3	0.0	.
<45	M	2009	All	All	362	149	4,810	4,810	10,213,259.0	13,334,868	1.5	0.0	.
<45	F	2010	All	All	335	119	2,672	2,672	9,983,178.5	13,015,039	1.2	0.0	.
<45	M	2010	All	All	353	156	4,560	4,560	9,941,236.1	12,985,466	1.6	0.0	.
<45	F	2011	All	All	236	98	2,469	2,469	10,269,962.6	13,326,447	1.0	0.0	.
<45	M	2011	All	All	357	157	4,401	4,401	10,284,943.8	13,411,219	1.5	0.0	.
<45	F	2012	All	All	128	57	1,699	1,699	10,481,430.6	13,466,022	0.5	0.0	.
<45	M	2012	All	All	230	83	2,984	2,984	10,551,406.1	13,590,953	0.8	0.0	.
<45	F	2013	All	All	128	53	1,826	1,826	10,634,621.6	13,616,785	0.5	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex				Codes	Death Codes	Death Table	Record of Death in Death Table	Years	Members	Member-Years	Deaths	Death Rate
<45	M	2013	All	All	159	73	2,967	2,967	10,732,463.3	13,745,916	0.7	0.0	.
<45	F	2014	All	All	88	37	1,719	1,719	10,424,061.1	13,659,429	0.4	0.0	.
<45	M	2014	All	All	143	60	2,800	2,800	10,601,972.2	13,882,934	0.6	0.0	.
<45	F	2015	All	All	86	43	1,744	1,744	10,513,900.0	13,606,886	0.4	0.0	.
<45	M	2015	All	All	72	31	2,704	2,704	10,716,430.3	13,893,744	0.3	0.0	.
<45	F	2016	All	All	33	17	1,758	1,758	10,783,083.3	14,034,771	0.2	0.0	.
<45	M	2016	All	All	47	34	2,625	2,625	11,028,490.6	14,366,038	0.3	0.0	.
<45	F	2017	All	All	12	7	612	612	4,383,716.3	11,967,814	0.2	0.0	.
<45	M	2017	All	All	17	10	972	972	4,490,855.8	12,251,625	0.2	0.0	.
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2006	All	All	63	39	854	854	729,588.4	1,663,943	5.3	0.0	.
45-54	M	2006	All	All	112	61	1,260	1,260	686,269.2	1,570,594	8.9	0.0	.
45-54	F	2007	All	All	179	104	2,091	2,091	1,541,777.1	2,206,942	6.7	0.0	.
45-54	M	2007	All	All	237	135	2,994	2,994	1,455,408.9	2,109,735	9.3	0.0	.
45-54	F	2008	All	All	354	170	4,612	4,612	2,552,609.4	4,052,806	6.7	0.0	.
45-54	M	2008	All	All	410	212	6,897	6,897	2,409,335.6	3,842,715	8.8	0.0	.
45-54	F	2009	All	All	511	206	5,062	5,062	3,195,760.8	4,148,514	6.4	0.0	.
45-54	M	2009	All	All	714	280	7,192	7,192	3,008,544.6	3,940,131	9.3	0.0	.
45-54	F	2010	All	All	534	218	4,613	4,613	3,154,587.0	4,117,406	6.9	0.0	.
45-54	M	2010	All	All	714	269	6,598	6,598	2,967,178.0	3,901,127	9.1	0.0	.
45-54	F	2011	All	All	422	184	4,233	4,233	3,210,115.2	4,171,962	5.7	0.0	.
45-54	M	2011	All	All	611	247	6,412	6,412	3,041,518.7	3,989,611	8.1	0.0	.
45-54	F	2012	All	All	279	119	3,245	3,245	3,209,759.2	4,145,650	3.7	0.0	.
45-54	M	2012	All	All	352	143	4,886	4,886	3,060,829.1	3,984,954	4.7	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	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
(Years)	Sex				Codes	Death Codes	Death Table	in Death Table	Years	Member-Years	Member-Years	Deaths	Death Rate
45-54	F	2013	All	All	243	102	3,414	3,414	3,211,918.8	4,137,960	3.2	0.0	.
45-54	M	2013	All	All	318	143	5,036	5,036	3,071,959.3	3,973,807	4.7	0.0	.
45-54	F	2014	All	All	227	92	3,458	3,458	3,118,457.7	4,142,614	3.0	0.0	.
45-54	M	2014	All	All	255	112	4,950	4,950	3,021,139.5	4,018,035	3.7	0.0	.
45-54	F	2015	All	All	150	73	3,342	3,342	3,153,784.3	4,137,772	2.3	0.0	.
45-54	M	2015	All	All	239	100	4,841	4,841	3,058,871.5	4,022,355	3.3	0.0	.
45-54	F	2016	All	All	65	45	3,321	3,321	3,227,928.1	4,242,130	1.4	0.0	.
45-54	M	2016	All	All	86	40	4,607	4,607	3,136,487.3	4,132,144	1.3	0.0	.
45-54	F	2017	All	All	26	11	1,224	1,224	1,303,154.5	3,549,217	0.8	0.0	.
45-54	M	2017	All	All	32	20	1,773	1,773	1,267,610.6	3,459,975	1.6	0.0	.
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2006	All	All	124	77	1,765	1,765	536,700.1	1,200,502	14.3	0.0	.
55-64	M	2006	All	All	184	112	2,493	2,493	502,771.7	1,127,472	22.3	0.0	.
55-64	F	2007	All	All	333	191	3,968	3,968	1,161,590.7	1,678,053	16.4	0.0	.
55-64	M	2007	All	All	392	236	5,815	5,815	1,087,569.8	1,572,368	21.7	0.0	.
55-64	F	2008	All	All	756	362	9,499	9,499	1,972,242.2	3,013,819	18.4	0.0	.
55-64	M	2008	All	All	962	481	13,402	13,402	1,821,797.6	2,793,751	26.4	0.0	.
55-64	F	2009	All	All	1,042	487	10,186	10,186	2,490,431.6	3,136,413	19.6	0.0	.
55-64	M	2009	All	All	1,436	632	14,849	14,849	2,289,726.9	2,916,334	27.6	0.0	.
55-64	F	2010	All	All	1,087	465	9,653	9,653	2,553,674.5	3,254,415	18.2	0.0	.
55-64	M	2010	All	All	1,374	611	14,107	14,107	2,336,983.4	3,003,608	26.1	0.0	.
55-64	F	2011	All	All	994	474	9,733	9,733	2,709,113.7	3,423,769	17.5	0.0	.
55-64	M	2011	All	All	1,416	587	14,258	14,258	2,487,371.5	3,179,480	23.6	0.0	.
55-64	F	2012	All	All	645	298	7,672	7,672	2,777,980.7	3,506,829	10.7	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	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
(Years)	Sex				Codes	Death Codes	Death Table	in Death Table	Years	Member-Years	Member-Years	Deaths	Death Rate
55-64	M	2012	All	All	851	400	11,204	11,204	2,564,838.3	3,274,679	15.6	0.0	.
55-64	F	2013	All	All	647	283	8,006	8,006	2,886,142.7	3,622,071	9.8	0.0	.
55-64	M	2013	All	All	912	393	11,765	11,765	2,671,477.0	3,370,166	14.7	0.0	.
55-64	F	2014	All	All	500	268	8,589	8,589	2,897,079.6	3,761,050	9.3	0.0	.
55-64	M	2014	All	All	759	331	12,484	12,484	2,720,147.9	3,540,104	12.2	0.0	.
55-64	F	2015	All	All	360	206	8,676	8,676	3,031,012.2	3,855,408	6.8	0.0	.
55-64	M	2015	All	All	505	268	12,838	12,838	2,849,559.1	3,634,813	9.4	0.0	.
55-64	F	2016	All	All	201	97	8,827	8,827	3,194,084.4	4,060,872	3.0	0.0	.
55-64	M	2016	All	All	210	123	12,921	12,921	3,000,866.5	3,835,153	4.1	0.0	.
55-64	F	2017	All	All	54	37	3,386	3,386	1,315,624.4	3,509,732	2.8	0.0	.
55-64	M	2017	All	All	81	55	4,841	4,841	1,239,927.5	3,315,736	4.4	0.0	.
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2006	All	All	261	152	2,480	2,480	241,737.8	538,088	62.9	0.1	.
65-74	M	2006	All	All	321	209	3,370	3,370	218,335.7	489,736	95.7	0.1	.
65-74	F	2007	All	All	619	384	6,991	6,991	597,270.2	1,695,088	64.3	0.1	.
65-74	M	2007	All	All	655	400	8,823	8,823	528,572.4	1,366,498	75.7	0.0	.
65-74	F	2008	All	All	1,220	720	23,811	23,811	1,753,642.0	2,334,159	41.1	0.0	.
65-74	M	2008	All	All	1,485	859	28,866	28,866	1,448,288.1	1,973,737	59.3	0.0	.
65-74	F	2009	All	All	1,554	865	22,369	22,369	1,780,123.5	2,114,196	48.6	0.0	.
65-74	M	2009	All	All	2,077	1,068	28,650	28,650	1,527,965.4	1,840,658	69.9	0.0	.
65-74	F	2010	All	All	1,443	825	21,221	21,221	1,687,993.5	2,046,054	48.9	0.0	.
65-74	M	2010	All	All	1,952	1,042	26,525	26,525	1,465,858.6	1,802,988	71.1	0.0	.
65-74	F	2011	All	All	1,450	828	21,781	21,781	1,856,522.9	2,378,887	44.6	0.0	.
65-74	M	2011	All	All	1,806	976	27,682	27,682	1,619,281.9	2,086,334	60.3	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	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
(Years)	Sex				Codes	Death Codes	Death Table	Record of Death in Death Table	Years	Member-Years	Member-Years	Deaths	Death Rate
65-74	F	2012	All	All	1,207	700	21,573	21,573	2,141,739.5	2,646,897	32.7	0.0	.
65-74	M	2012	All	All	1,369	770	27,120	27,120	1,852,179.5	2,309,298	41.6	0.0	.
65-74	F	2013	All	All	1,151	680	23,858	23,858	2,264,201.1	2,745,599	30.0	0.0	.
65-74	M	2013	All	All	1,252	736	29,203	29,203	1,952,891.2	2,391,056	37.7	0.0	.
65-74	F	2014	All	All	1,119	675	25,937	25,937	2,435,712.2	3,061,371	27.7	0.0	.
65-74	M	2014	All	All	1,312	809	32,118	32,118	2,086,283.4	2,643,829	38.8	0.0	.
65-74	F	2015	All	All	952	601	28,247	28,247	2,630,182.7	3,249,260	22.9	0.0	.
65-74	M	2015	All	All	1,185	709	35,150	35,150	2,249,717.9	2,809,333	31.5	0.0	.
65-74	F	2016	All	All	261	213	29,939	29,939	2,812,848.4	3,382,438	7.6	0.0	.
65-74	M	2016	All	All	339	268	37,136	37,136	2,396,129.6	2,916,834	11.2	0.0	.
65-74	F	2017	All	All	108	90	10,863	10,863	1,058,045.4	2,976,923	8.5	0.0	.
65-74	M	2017	All	All	109	87	13,664	13,664	907,051.6	2,546,699	9.6	0.0	.
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2006	All	All	701	440	5,211	5,211	174,129.5	378,671	252.7	0.1	.
75-84	M	2006	All	All	505	337	5,219	5,219	120,694.8	264,256	279.2	0.1	.
75-84	F	2007	All	All	1,414	903	14,243	14,243	420,968.1	1,212,571	214.5	0.1	.
75-84	M	2007	All	All	1,243	791	13,621	13,621	287,243.1	739,316	275.4	0.1	.
75-84	F	2008	All	All	2,676	1,622	46,396	46,396	1,241,739.7	1,623,410	130.6	0.0	.
75-84	M	2008	All	All	2,242	1,405	41,491	41,491	801,349.7	1,084,358	175.3	0.0	.
75-84	F	2009	All	All	3,569	2,012	44,791	44,791	1,257,873.6	1,471,072	160.0	0.0	.
75-84	M	2009	All	All	3,242	1,780	43,278	43,278	865,489.0	1,025,970	205.7	0.0	.
75-84	F	2010	All	All	3,534	1,973	42,080	42,080	1,198,001.9	1,414,000	164.7	0.0	.
75-84	M	2010	All	All	3,083	1,680	40,593	40,593	847,372.9	1,013,589	198.3	0.0	.
75-84	F	2011	All	All	3,297	1,845	42,042	42,042	1,260,150.0	1,529,048	146.4	0.0	.

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Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	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
(Years)	Sex				Codes	Death Codes	Death Table	Record of Death in Death Table	Years	Member-Years	Member-Years	Deaths	Death Rate
75-84	M	2011	All	All	2,911	1,657	42,040	42,040	914,290.2	1,121,377	181.2	0.0	.
75-84	F	2012	All	All	2,226	1,373	37,626	37,626	1,344,101.5	1,596,607	102.2	0.0	.
75-84	M	2012	All	All	2,111	1,215	36,866	36,866	987,511.3	1,185,674	123.0	0.0	.
75-84	F	2013	All	All	2,172	1,299	39,151	39,151	1,375,502.0	1,631,275	94.4	0.0	.
75-84	M	2013	All	All	2,051	1,156	38,294	38,294	1,023,152.2	1,224,894	113.0	0.0	.
75-84	F	2014	All	All	1,910	1,181	40,169	40,169	1,419,162.9	1,706,706	83.2	0.0	.
75-84	M	2014	All	All	1,728	1,068	39,943	39,943	1,066,674.0	1,297,961	100.1	0.0	.
75-84	F	2015	All	All	1,492	970	40,884	40,884	1,441,481.0	1,730,757	67.3	0.0	.
75-84	M	2015	All	All	1,397	887	41,498	41,498	1,106,917.7	1,340,393	80.1	0.0	.
75-84	F	2016	All	All	442	337	40,733	40,733	1,491,798.6	1,755,879	22.6	0.0	.
75-84	M	2016	All	All	431	326	42,103	42,103	1,162,732.7	1,377,563	28.0	0.0	.
75-84	F	2017	All	All	164	118	15,288	15,288	564,790.5	1,566,304	20.9	0.0	.
75-84	M	2017	All	All	139	97	15,763	15,763	444,031.7	1,231,925	21.8	0.0	.
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2006	All	All	724	508	7,598	7,598	90,896.0	198,659	558.9	0.1	.
85+	M	2006	All	All	369	249	4,019	4,019	35,775.4	79,974	696.0	0.1	.
85+	F	2007	All	All	1,821	1,225	21,481	21,481	214,306.7	580,606	571.6	0.1	.
85+	M	2007	All	All	824	573	10,912	10,912	85,247.5	218,993	672.2	0.1	.
85+	F	2008	All	All	3,019	2,001	68,154	68,154	577,262.0	763,162	346.6	0.0	.
85+	M	2008	All	All	1,635	1,104	34,531	34,531	235,701.2	333,685	468.4	0.0	.
85+	F	2009	All	All	4,038	2,513	64,852	64,852	595,591.0	709,022	421.9	0.0	.
85+	M	2009	All	All	2,314	1,413	36,976	36,976	267,966.2	330,010	527.3	0.0	.
85+	F	2010	All	All	4,019	2,521	63,779	63,779	586,975.3	700,625	429.5	0.0	.
85+	M	2010	All	All	2,254	1,385	36,829	36,829	271,199.7	334,554	510.7	0.0	.

Table 3. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Primary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
85+	F	2011	All	All	4,048	2,446	66,557	66,557	620,676.4	757,785	394.1	0.0	.
85+	M	2011	All	All	2,375	1,426	37,742	37,742	294,203.7	370,186	484.7	0.0	.
85+	F	2012	All	All	3,118	1,891	61,752	61,752	666,402.8	799,987	283.8	0.0	.
85+	M	2012	All	All	1,710	1,030	33,461	33,461	322,287.0	398,456	319.6	0.0	.
85+	F	2013	All	All	2,779	1,764	64,138	64,138	690,290.0	829,329	255.5	0.0	.
85+	M	2013	All	All	1,479	936	35,220	35,220	338,937.1	417,549	276.2	0.0	.
85+	F	2014	All	All	2,576	1,699	65,335	65,335	707,049.2	850,270	240.3	0.0	.
85+	M	2014	All	All	1,508	933	35,958	35,958	351,682.0	434,959	265.3	0.0	.
85+	F	2015	All	All	1,877	1,278	65,696	65,696	695,311.3	843,783	183.8	0.0	.
85+	M	2015	All	All	1,030	695	36,451	36,451	351,959.4	438,410	197.5	0.0	.
85+	F	2016	All	All	440	341	62,196	62,196	696,426.2	828,286	49.0	0.0	.
85+	M	2016	All	All	240	194	35,110	35,110	359,523.4	437,265	54.0	0.0	.
85+	F	2017	All	All	140	114	23,676	23,676	263,425.7	722,729	43.3	0.0	.
85+	M	2017	All	All	87	69	13,306	13,306	137,269.8	380,100	50.3	0.0	.
All	All	All	American Indian/Alaskan Native	All	62	50	7,693	7,693	173,255.5	63,303	28.9	0.0	.
All	All	All	Asian	All	226	180	19,635	19,635	635,651.5	253,613	28.3	0.0	.
All	All	All	Black/African American	All	3,415	2,818	156,398	156,398	4,008,828.5	1,425,842	70.3	0.0	.
All	All	All	Native Hawaiian/Pacific Islander	All	253	199	14,326	14,326	537,389.3	188,292	37.0	0.0	.
All	All	All	Unknown	All	112,850	58,740	1,049,957	1,049,957	352,491,565.1	114,674,600	16.7	0.1	.
All	All	All	White	All	24,309	19,775	1,460,788	1,460,788	35,920,123.0	10,656,617	55.1	0.0	.
All	All	All	All	No	28,265	23,022	1,658,841	1,658,841	41,275,279.1	12,587,672	55.8	0.0	.
All	All	All	All	Unknown	112,370	58,333	1,016,919	1,016,919	351,576,768.0	114,311,713	16.6	0.1	.
All	All	All	All	Yes	480	407	33,037	33,037	914,765.8	362,882	44.5	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Members		Members with		Eligible Member-Years	Eligible Members	Rate of Stroke	Rate of Stroke-	Age Standardized
					Stroke-Related Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table			Related Death per 100,000 Member-Years	Related Death among all Deaths	
All	All	All	All	All	59,153	34,504	2,708,797	2,708,797	393,766,813	127,262,267	8.8	0.0	6.3
<45	All	All	All	All	2,094	1,031	58,516	58,516	207,075,163.6	79,190,332	0.5	0.0	.
45-54	All	All	All	All	3,660	1,674	96,915	96,915	61,794,592.8	25,010,181	2.7	0.0	.
55-64	All	All	All	All	7,395	3,570	220,937	220,937	53,098,714.1	20,106,607	6.7	0.0	.
65-74	All	All	All	All	10,876	6,419	537,377	537,377	39,512,574.6	14,381,563	16.2	0.0	.
75-84	All	All	All	All	18,509	11,115	809,323	809,323	22,817,158.8	7,498,320	48.7	0.0	.
85+	All	All	All	All	16,619	10,695	985,729	985,729	9,456,365.1	3,227,699	113.1	0.0	.
All	F	All	All	All	31,797	18,899	1,434,192	1,434,192	203,083,174.3	64,914,217	9.3	0.0	.
All	M	All	All	All	27,356	15,605	1,274,605	1,274,605	190,683,638.6	62,348,050	8.2	0.0	.
<45	F	All	All	All	920	447	21,865	21,865	103,088,479.6	39,431,049	0.4	0.0	.
<45	M	All	All	All	1,174	584	36,651	36,651	103,986,684.0	39,759,283	0.6	0.0	.
45-54	F	All	All	All	1,616	748	39,469	39,469	31,609,440.6	12,724,125	2.4	0.0	.
45-54	M	All	All	All	2,044	926	57,446	57,446	30,185,152.3	12,286,056	3.1	0.0	.
55-64	F	All	All	All	3,236	1,596	89,960	89,960	27,525,676.9	10,337,903	5.8	0.0	.
55-64	M	All	All	All	4,159	1,974	130,977	130,977	25,573,037.3	9,768,704	7.7	0.0	.
65-74	F	All	All	All	5,043	3,020	239,070	239,070	21,260,019.2	7,647,608	14.2	0.0	.
65-74	M	All	All	All	5,833	3,399	298,307	298,307	18,252,555.4	6,733,955	18.6	0.0	.
75-84	F	All	All	All	10,137	6,105	408,614	408,614	13,189,699.3	4,277,308	46.3	0.0	.
75-84	M	All	All	All	8,372	5,010	400,709	400,709	9,627,459.4	3,221,012	52.0	0.0	.
85+	F	All	All	All	10,845	6,983	635,214	635,214	6,404,612.6	2,117,300	109.0	0.0	.
85+	M	All	All	All	5,774	3,712	350,515	350,515	3,051,752.5	1,110,399	121.6	0.0	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	1,348	860	35,818	35,818	8,086,004.8	18,065,591	10.6	0.0	11.3
All	All	2007	All	All	3,190	2,072	94,496	94,496	17,297,202.4	26,483,395	12.0	0.0	11.5
All	All	2008	All	All	6,429	3,843	284,891	284,891	30,967,085.6	46,558,226	12.4	0.0	8.4
All	All	2009	All	All	8,975	4,950	285,871	285,871	37,720,256.7	46,401,612	13.1	0.0	9.9
All	All	2010	All	All	8,872	4,881	273,230	273,230	36,995,638.5	45,779,795	13.2	0.0	10.0
All	All	2011	All	All	8,336	4,609	279,350	279,350	38,569,326.1	47,817,043	11.9	0.0	8.8
All	All	2012	All	All	5,982	3,404	250,088	250,088	39,961,454.0	48,876,848	8.5	0.0	6.0
All	All	2013	All	All	5,564	3,227	262,878	262,878	40,854,392.3	49,650,082	7.9	0.0	5.5

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category		Year	Race	Hispanic	Members		Members with		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
(Years)	Sex				Stroke-Related Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
All	All	2014	All	All	4,883	2,942	273,460	273,460	40,849,917.1	50,917,319	7.2	0.0	4.8
All	All	2015	All	All	3,828	2,428	282,071	282,071	41,799,437.6	51,404,679	5.8	0.0	3.9
All	All	2016	All	All	1,282	952	281,276	281,276	43,290,574.8	53,150,819	2.2	0.0	1.5
All	All	2017	All	All	464	336	105,368	105,368	17,375,523.1	46,620,837	1.9	0.0	1.4
<45	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2006	All	All	45	27	1,549	1,549	4,747,973.7	10,942,714	0.6	0.0	.
<45	All	2007	All	All	106	75	3,557	3,557	9,915,137.9	13,947,994	0.8	0.0	.
<45	All	2008	All	All	278	141	7,232	7,232	16,151,162.2	26,320,475	0.9	0.0	.
<45	All	2009	All	All	327	161	7,666	7,666	20,439,137.4	26,648,612	0.8	0.0	.
<45	All	2010	All	All	395	188	7,232	7,232	19,924,414.7	26,000,505	0.9	0.0	.
<45	All	2011	All	All	314	144	6,870	6,870	20,554,906.4	26,737,666	0.7	0.0	.
<45	All	2012	All	All	206	80	4,683	4,683	21,032,836.7	27,056,975	0.4	0.0	.
<45	All	2013	All	All	170	76	4,793	4,793	21,367,084.9	27,362,701	0.4	0.0	.
<45	All	2014	All	All	124	62	4,519	4,519	21,026,033.3	27,542,363	0.3	0.0	.
<45	All	2015	All	All	68	38	4,448	4,448	21,230,330.3	27,500,630	0.2	0.0	.
<45	All	2016	All	All	43	30	4,383	4,383	21,811,573.9	28,400,809	0.1	0.0	.
<45	All	2017	All	All	18	9	1,584	1,584	8,874,572.1	24,219,439	0.1	0.0	.
45-54	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2006	All	All	80	46	2,114	2,114	1,415,857.6	3,234,537	3.2	0.0	.
45-54	All	2007	All	All	218	127	5,085	5,085	2,997,185.9	4,316,677	4.2	0.0	.
45-54	All	2008	All	All	431	218	11,509	11,509	4,961,945.0	7,895,521	4.4	0.0	.
45-54	All	2009	All	All	566	245	12,254	12,254	6,204,305.4	8,088,645	3.9	0.0	.
45-54	All	2010	All	All	661	276	11,211	11,211	6,121,765.0	8,018,533	4.5	0.0	.
45-54	All	2011	All	All	562	233	10,645	10,645	6,251,633.9	8,161,573	3.7	0.0	.
45-54	All	2012	All	All	312	133	8,131	8,131	6,270,588.3	8,130,604	2.1	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Members		Members with		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 Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
45-54	All	2013	All	All	259	122	8,450	8,450	6,283,878.2	8,111,767	1.9	0.0	.
45-54	All	2014	All	All	230	106	8,408	8,408	6,139,597.1	8,160,649	1.7	0.0	.
45-54	All	2015	All	All	210	94	8,183	8,183	6,212,655.8	8,160,127	1.5	0.0	.
45-54	All	2016	All	All	93	58	7,928	7,928	6,364,415.4	8,374,274	0.9	0.0	.
45-54	All	2017	All	All	38	16	2,997	2,997	2,570,765.2	7,009,192	0.6	0.0	.
55-64	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2006	All	All	141	85	4,258	4,258	1,039,471.8	2,327,974	8.2	0.0	.
55-64	All	2007	All	All	291	183	9,783	9,783	2,249,160.5	3,250,421	8.1	0.0	.
55-64	All	2008	All	All	824	420	22,901	22,901	3,794,039.7	5,807,570	11.1	0.0	.
55-64	All	2009	All	All	1,201	535	25,035	25,035	4,780,158.5	6,052,747	11.2	0.0	.
55-64	All	2010	All	All	1,194	525	23,760	23,760	4,890,657.9	6,258,023	10.7	0.0	.
55-64	All	2011	All	All	1,157	528	23,991	23,991	5,196,485.2	6,603,249	10.2	0.0	.
55-64	All	2012	All	All	708	339	18,876	18,876	5,342,819.0	6,781,508	6.3	0.0	.
55-64	All	2013	All	All	690	325	19,771	19,771	5,557,619.8	6,992,237	5.8	0.0	.
55-64	All	2014	All	All	547	262	21,073	21,073	5,617,227.5	7,301,154	4.7	0.0	.
55-64	All	2015	All	All	407	217	21,514	21,514	5,880,571.3	7,490,221	3.7	0.0	.
55-64	All	2016	All	All	185	114	21,748	21,748	6,194,950.9	7,896,025	1.8	0.0	.
55-64	All	2017	All	All	50	37	8,227	8,227	2,555,551.9	6,825,468	1.4	0.0	.
65-74	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2006	All	All	242	145	5,850	5,850	460,073.5	1,027,824	31.5	0.0	.
65-74	All	2007	All	All	543	339	15,814	15,814	1,125,842.6	3,061,586	30.1	0.0	.
65-74	All	2008	All	All	1,218	714	52,677	52,677	3,201,930.1	4,307,896	22.3	0.0	.
65-74	All	2009	All	All	1,599	860	51,019	51,019	3,308,089.0	3,954,854	26.0	0.0	.
65-74	All	2010	All	All	1,480	851	47,746	47,746	3,153,852.1	3,849,042	27.0	0.0	.
65-74	All	2011	All	All	1,377	761	49,463	49,463	3,475,804.8	4,465,221	21.9	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Members		Members with		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 Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
65-74	All	2012	All	All	1,113	660	48,693	48,693	3,993,919.1	4,956,195	16.5	0.0	.
65-74	All	2013	All	All	1,063	631	53,061	53,061	4,217,092.3	5,136,655	15.0	0.0	.
65-74	All	2014	All	All	1,024	626	58,055	58,055	4,521,995.5	5,705,200	13.8	0.0	.
65-74	All	2015	All	All	876	556	63,397	63,397	4,879,900.6	6,058,593	11.4	0.0	.
65-74	All	2016	All	All	253	203	67,075	67,075	5,208,978.0	6,299,272	3.9	0.0	.
65-74	All	2017	All	All	88	73	24,527	24,527	1,965,097.0	5,523,622	3.7	0.0	.
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2006	All	All	483	299	10,430	10,430	294,824.3	642,927	101.4	0.0	.
75-84	All	2007	All	All	1,045	680	27,864	27,864	708,211.3	1,951,887	96.0	0.0	.
75-84	All	2008	All	All	2,094	1,277	87,887	87,887	2,043,089.4	2,707,768	62.5	0.0	.
75-84	All	2009	All	All	2,872	1,654	88,069	88,069	2,123,362.6	2,497,042	77.9	0.0	.
75-84	All	2010	All	All	2,791	1,587	82,673	82,673	2,045,374.8	2,427,589	77.6	0.0	.
75-84	All	2011	All	All	2,559	1,463	84,082	84,082	2,174,440.2	2,650,425	67.3	0.0	.
75-84	All	2012	All	All	1,799	1,068	74,492	74,492	2,331,612.7	2,782,281	45.8	0.0	.
75-84	All	2013	All	All	1,743	1,031	77,445	77,445	2,398,654.2	2,856,169	43.0	0.0	.
75-84	All	2014	All	All	1,415	893	80,112	80,112	2,485,837.0	3,004,667	35.9	0.0	.
75-84	All	2015	All	All	1,167	755	82,382	82,382	2,548,398.7	3,071,150	29.6	0.0	.
75-84	All	2016	All	All	395	303	82,836	82,836	2,654,531.4	3,133,442	11.4	0.0	.
75-84	All	2017	All	All	146	105	31,051	31,051	1,008,822.3	2,798,229	10.4	0.0	.
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2006	All	All	357	258	11,617	11,617	126,671.4	278,633	203.7	0.0	.
85+	All	2007	All	All	987	668	32,393	32,393	299,554.2	799,599	223.0	0.0	.
85+	All	2008	All	All	1,584	1,073	102,685	102,685	812,963.2	1,096,847	132.0	0.0	.
85+	All	2009	All	All	2,410	1,495	101,828	101,828	863,557.2	1,039,032	173.1	0.0	.
85+	All	2010	All	All	2,351	1,454	100,608	100,608	858,175.0	1,035,179	169.4	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members		Members with		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 Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
85+	All	2011	All	All	2,367	1,480	104,299	104,299	914,880.0	1,127,971	161.8	0.0	.
85+	All	2012	All	All	1,844	1,124	95,213	95,213	988,689.8	1,198,443	113.7	0.0	.
85+	All	2013	All	All	1,639	1,042	99,358	99,358	1,029,227.2	1,246,878	101.2	0.0	.
85+	All	2014	All	All	1,543	993	101,293	101,293	1,058,731.3	1,285,229	93.8	0.0	.
85+	All	2015	All	All	1,100	768	102,147	102,147	1,047,270.7	1,282,193	73.3	0.0	.
85+	All	2016	All	All	313	244	97,306	97,306	1,055,949.6	1,265,551	23.1	0.0	.
85+	All	2017	All	All	124	96	36,982	36,982	400,695.5	1,102,829	24.0	0.0	.
All	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2006	All	All	738	479	18,437	18,437	4,145,279.9	9,236,450	11.6	0.0	.
All	M	2006	All	All	610	381	17,381	17,381	3,940,724.9	8,829,141	9.7	0.0	.
All	F	2007	All	All	1,837	1,197	50,064	50,064	8,881,385.6	13,874,081	13.5	0.0	.
All	M	2007	All	All	1,353	875	44,432	44,432	8,415,816.8	12,609,314	10.4	0.0	.
All	F	2008	All	All	3,444	2,081	155,163	155,163	16,170,665.9	24,087,750	12.9	0.0	.
All	M	2008	All	All	2,985	1,762	129,728	129,728	14,796,419.7	22,470,476	11.9	0.0	.
All	F	2009	All	All	4,692	2,651	150,116	150,116	19,546,364.6	23,896,783	13.6	0.0	.
All	M	2009	All	All	4,283	2,299	135,755	135,755	18,173,892.1	22,504,829	12.7	0.0	.
All	F	2010	All	All	4,790	2,664	144,018	144,018	19,165,001.8	23,590,881	13.9	0.0	.
All	M	2010	All	All	4,082	2,217	129,212	129,212	17,830,636.6	22,188,914	12.4	0.0	.
All	F	2011	All	All	4,435	2,513	146,815	146,815	19,927,025.0	24,571,873	12.6	0.0	.
All	M	2011	All	All	3,901	2,096	132,535	132,535	18,642,301.0	23,245,170	11.2	0.0	.
All	F	2012	All	All	3,206	1,869	133,567	133,567	20,621,822.4	25,095,276	9.1	0.0	.
All	M	2012	All	All	2,776	1,535	116,521	116,521	19,339,631.7	23,781,572	7.9	0.0	.
All	F	2013	All	All	3,032	1,779	140,393	140,393	21,063,045.1	25,502,930	8.4	0.0	.
All	M	2013	All	All	2,532	1,448	122,485	122,485	19,791,347.2	24,147,152	7.3	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Members		Members with		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 Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
All	F	2014	All	All	2,539	1,596	145,207	145,207	21,001,749.9	26,091,104	7.6	0.0	.
All	M	2014	All	All	2,344	1,346	128,253	128,253	19,848,167.2	24,826,215	6.8	0.0	.
All	F	2015	All	All	2,101	1,352	148,589	148,589	21,465,811.4	26,297,821	6.3	0.0	.
All	M	2015	All	All	1,727	1,076	133,482	133,482	20,333,626.1	25,106,858	5.3	0.0	.
All	F	2016	All	All	716	521	146,774	146,774	22,206,255.5	27,148,782	2.3	0.0	.
All	M	2016	All	All	566	431	134,502	134,502	21,084,319.3	26,002,037	2.0	0.0	.
All	F	2017	All	All	267	197	55,049	55,049	8,888,767.1	23,847,420	2.2	0.0	.
All	M	2017	All	All	197	139	50,319	50,319	8,486,756.0	22,773,417	1.6	0.0	.
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2006	All	All	19	11	529	529	2,371,748.7	5,460,859	0.5	0.0	.
<45	M	2006	All	All	26	16	1,020	1,020	2,376,225.1	5,481,855	0.7	0.0	.
<45	F	2007	All	All	58	37	1,290	1,290	4,944,571.7	6,944,075	0.7	0.0	.
<45	M	2007	All	All	48	38	2,267	2,267	4,970,566.2	7,003,919	0.8	0.0	.
<45	F	2008	All	All	112	55	2,691	2,691	8,072,326.7	13,145,671	0.7	0.0	.
<45	M	2008	All	All	166	86	4,541	4,541	8,078,835.5	13,174,804	1.1	0.0	.
<45	F	2009	All	All	161	82	2,856	2,856	10,225,878.5	13,313,744	0.8	0.0	.
<45	M	2009	All	All	166	79	4,810	4,810	10,213,259.0	13,334,868	0.8	0.0	.
<45	F	2010	All	All	186	79	2,672	2,672	9,983,178.5	13,015,039	0.8	0.0	.
<45	M	2010	All	All	209	109	4,560	4,560	9,941,236.1	12,985,466	1.1	0.0	.
<45	F	2011	All	All	137	62	2,469	2,469	10,269,962.6	13,326,447	0.6	0.0	.
<45	M	2011	All	All	177	82	4,401	4,401	10,284,943.8	13,411,219	0.8	0.0	.
<45	F	2012	All	All	80	34	1,699	1,699	10,481,430.6	13,466,022	0.3	0.0	.
<45	M	2012	All	All	126	46	2,984	2,984	10,551,406.1	13,590,953	0.4	0.0	.
<45	F	2013	All	All	70	31	1,826	1,826	10,634,621.6	13,616,785	0.3	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category			Race	Hispanic	Members		Members with		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
(Years)	Sex	Year			Stroke-Related Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
<45	M	2013	All	All	100	45	2,967	2,967	10,732,463.3	13,745,916	0.4	0.0	.
<45	F	2014	All	All	35	22	1,719	1,719	10,424,061.1	13,659,429	0.2	0.0	.
<45	M	2014	All	All	89	40	2,800	2,800	10,601,972.2	13,882,934	0.4	0.0	.
<45	F	2015	All	All	40	22	1,744	1,744	10,513,900.0	13,606,886	0.2	0.0	.
<45	M	2015	All	All	28	16	2,704	2,704	10,716,430.3	13,893,744	0.1	0.0	.
<45	F	2016	All	All	18	10	1,758	1,758	10,783,083.3	14,034,771	0.1	0.0	.
<45	M	2016	All	All	25	20	2,625	2,625	11,028,490.6	14,366,038	0.2	0.0	.
<45	F	2017	All	All	4	2	612	612	4,383,716.3	11,967,814	0.0	0.0	.
<45	M	2017	All	All	14	7	972	972	4,490,855.8	12,251,625	0.2	0.0	.
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2006	All	All	29	19	854	854	729,588.4	1,663,943	2.6	0.0	.
45-54	M	2006	All	All	51	27	1,260	1,260	686,269.2	1,570,594	3.9	0.0	.
45-54	F	2007	All	All	100	59	2,091	2,091	1,541,777.1	2,206,942	3.8	0.0	.
45-54	M	2007	All	All	118	68	2,994	2,994	1,455,408.9	2,109,735	4.7	0.0	.
45-54	F	2008	All	All	199	102	4,612	4,612	2,552,609.4	4,052,806	4.0	0.0	.
45-54	M	2008	All	All	232	116	6,897	6,897	2,409,335.6	3,842,715	4.8	0.0	.
45-54	F	2009	All	All	225	103	5,062	5,062	3,195,760.8	4,148,514	3.2	0.0	.
45-54	M	2009	All	All	341	142	7,192	7,192	3,008,544.6	3,940,131	4.7	0.0	.
45-54	F	2010	All	All	310	126	4,613	4,613	3,154,587.0	4,117,406	4.0	0.0	.
45-54	M	2010	All	All	351	150	6,598	6,598	2,967,178.0	3,901,127	5.1	0.0	.
45-54	F	2011	All	All	242	101	4,233	4,233	3,210,115.2	4,171,962	3.1	0.0	.
45-54	M	2011	All	All	320	132	6,412	6,412	3,041,518.7	3,989,611	4.3	0.0	.
45-54	F	2012	All	All	138	58	3,245	3,245	3,209,759.2	4,145,650	1.8	0.0	.
45-54	M	2012	All	All	174	75	4,886	4,886	3,060,829.1	3,984,954	2.5	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category		Year	Race	Hispanic	Members		Members with		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
(Years)	Sex				Stroke-Related Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
45-54	F	2013	All	All	111	52	3,414	3,414	3,211,918.8	4,137,960	1.6	0.0	.
45-54	M	2013	All	All	148	70	5,036	5,036	3,071,959.3	3,973,807	2.3	0.0	.
45-54	F	2014	All	All	103	47	3,458	3,458	3,118,457.7	4,142,614	1.5	0.0	.
45-54	M	2014	All	All	127	59	4,950	4,950	3,021,139.5	4,018,035	2.0	0.0	.
45-54	F	2015	All	All	97	46	3,342	3,342	3,153,784.3	4,137,772	1.5	0.0	.
45-54	M	2015	All	All	113	48	4,841	4,841	3,058,871.5	4,022,355	1.6	0.0	.
45-54	F	2016	All	All	44	28	3,321	3,321	3,227,928.1	4,242,130	0.9	0.0	.
45-54	M	2016	All	All	49	30	4,607	4,607	3,136,487.3	4,132,144	1.0	0.0	.
45-54	F	2017	All	All	18	7	1,224	1,224	1,303,154.5	3,549,217	0.5	0.0	.
45-54	M	2017	All	All	20	9	1,773	1,773	1,267,610.6	3,459,975	0.7	0.0	.
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2006	All	All	50	32	1,765	1,765	536,700.1	1,200,502	6.0	0.0	.
55-64	M	2006	All	All	91	53	2,493	2,493	502,771.7	1,127,472	10.5	0.0	.
55-64	F	2007	All	All	146	89	3,968	3,968	1,161,590.7	1,678,053	7.7	0.0	.
55-64	M	2007	All	All	145	94	5,815	5,815	1,087,569.8	1,572,368	8.6	0.0	.
55-64	F	2008	All	All	395	196	9,499	9,499	1,972,242.2	3,013,819	9.9	0.0	.
55-64	M	2008	All	All	429	224	13,402	13,402	1,821,797.6	2,793,751	12.3	0.0	.
55-64	F	2009	All	All	524	245	10,186	10,186	2,490,431.6	3,136,413	9.8	0.0	.
55-64	M	2009	All	All	677	290	14,849	14,849	2,289,726.9	2,916,334	12.7	0.0	.
55-64	F	2010	All	All	561	239	9,653	9,653	2,553,674.5	3,254,415	9.4	0.0	.
55-64	M	2010	All	All	633	286	14,107	14,107	2,336,983.4	3,003,608	12.2	0.0	.
55-64	F	2011	All	All	468	228	9,733	9,733	2,709,113.7	3,423,769	8.4	0.0	.
55-64	M	2011	All	All	689	300	14,258	14,258	2,487,371.5	3,179,480	12.1	0.0	.
55-64	F	2012	All	All	287	144	7,672	7,672	2,777,980.7	3,506,829	5.2	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category			Race	Hispanic	Members		Records of	Members with	Eligible Member-Years	Eligible Members	Rate of Stroke	Rate of Stroke-	Age Standardized
(Years)	Sex	Year			Stroke-Related Death Codes	with Stroke-Related Death Codes	Death in Death Table	Record of Death in Death Table			Related Death per 100,000 Member-Years	Related Death among all Deaths	
55-64	M	2012	All	All	421	195	11,204	11,204	2,564,838.3	3,274,679	7.6	0.0	.
55-64	F	2013	All	All	265	129	8,006	8,006	2,886,142.7	3,622,071	4.5	0.0	.
55-64	M	2013	All	All	425	196	11,765	11,765	2,671,477.0	3,370,166	7.3	0.0	.
55-64	F	2014	All	All	245	126	8,589	8,589	2,897,079.6	3,761,050	4.3	0.0	.
55-64	M	2014	All	All	302	136	12,484	12,484	2,720,147.9	3,540,104	5.0	0.0	.
55-64	F	2015	All	All	171	93	8,676	8,676	3,031,012.2	3,855,408	3.1	0.0	.
55-64	M	2015	All	All	236	124	12,838	12,838	2,849,559.1	3,634,813	4.4	0.0	.
55-64	F	2016	All	All	99	56	8,827	8,827	3,194,084.4	4,060,872	1.8	0.0	.
55-64	M	2016	All	All	86	58	12,921	12,921	3,000,866.5	3,835,153	1.9	0.0	.
55-64	F	2017	All	All	25	19	3,386	3,386	1,315,624.4	3,509,732	1.4	0.0	.
55-64	M	2017	All	All	25	18	4,841	4,841	1,239,927.5	3,315,736	1.5	0.0	.
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2006	All	All	109	61	2,480	2,480	241,737.8	538,088	25.2	0.0	.
65-74	M	2006	All	All	133	84	3,370	3,370	218,335.7	489,736	38.5	0.0	.
65-74	F	2007	All	All	263	166	6,991	6,991	597,270.2	1,695,088	27.8	0.0	.
65-74	M	2007	All	All	280	173	8,823	8,823	528,572.4	1,366,498	32.7	0.0	.
65-74	F	2008	All	All	544	332	23,811	23,811	1,753,642.0	2,334,159	18.9	0.0	.
65-74	M	2008	All	All	674	382	28,866	28,866	1,448,288.1	1,973,737	26.4	0.0	.
65-74	F	2009	All	All	689	386	22,369	22,369	1,780,123.5	2,114,196	21.7	0.0	.
65-74	M	2009	All	All	910	474	28,650	28,650	1,527,965.4	1,840,658	31.0	0.0	.
65-74	F	2010	All	All	664	379	21,221	21,221	1,687,993.5	2,046,054	22.5	0.0	.
65-74	M	2010	All	All	816	472	26,525	26,525	1,465,858.6	1,802,988	32.2	0.0	.
65-74	F	2011	All	All	635	363	21,781	21,781	1,856,522.9	2,378,887	19.6	0.0	.
65-74	M	2011	All	All	742	398	27,682	27,682	1,619,281.9	2,086,334	24.6	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category		Year	Race	Hispanic	Members		Members with		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
Years	Sex				Stroke-Related Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
65-74	F	2012	All	All	530	321	21,573	21,573	2,141,739.5	2,646,897	15.0	0.0	.
65-74	M	2012	All	All	583	339	27,120	27,120	1,852,179.5	2,309,298	18.3	0.0	.
65-74	F	2013	All	All	540	311	23,858	23,858	2,264,201.1	2,745,599	13.7	0.0	.
65-74	M	2013	All	All	523	320	29,203	29,203	1,952,891.2	2,391,056	16.4	0.0	.
65-74	F	2014	All	All	464	283	25,937	25,937	2,435,712.2	3,061,371	11.6	0.0	.
65-74	M	2014	All	All	560	343	32,118	32,118	2,086,283.4	2,643,829	16.4	0.0	.
65-74	F	2015	All	All	441	280	28,247	28,247	2,630,182.7	3,249,260	10.6	0.0	.
65-74	M	2015	All	All	435	276	35,150	35,150	2,249,717.9	2,809,333	12.3	0.0	.
65-74	F	2016	All	All	121	99	29,939	29,939	2,812,848.4	3,382,438	3.5	0.0	.
65-74	M	2016	All	All	132	104	37,136	37,136	2,396,129.6	2,916,834	4.3	0.0	.
65-74	F	2017	All	All	43	39	10,863	10,863	1,058,045.4	2,976,923	3.7	0.0	.
65-74	M	2017	All	All	45	34	13,664	13,664	907,051.6	2,546,699	3.7	0.0	.
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2006	All	All	296	180	5,211	5,211	174,129.5	378,671	103.4	0.0	.
75-84	M	2006	All	All	187	119	5,219	5,219	120,694.8	264,256	98.6	0.0	.
75-84	F	2007	All	All	569	375	14,243	14,243	420,968.1	1,212,571	89.1	0.0	.
75-84	M	2007	All	All	476	305	13,621	13,621	287,243.1	739,316	106.2	0.0	.
75-84	F	2008	All	All	1,162	703	46,396	46,396	1,241,739.7	1,623,410	56.6	0.0	.
75-84	M	2008	All	All	932	574	41,491	41,491	801,349.7	1,084,358	71.6	0.0	.
75-84	F	2009	All	All	1,517	878	44,791	44,791	1,257,873.6	1,471,072	69.8	0.0	.
75-84	M	2009	All	All	1,355	776	43,278	43,278	865,489.0	1,025,970	89.7	0.0	.
75-84	F	2010	All	All	1,530	872	42,080	42,080	1,198,001.9	1,414,000	72.8	0.0	.
75-84	M	2010	All	All	1,261	715	40,593	40,593	847,372.9	1,013,589	84.4	0.0	.
75-84	F	2011	All	All	1,414	794	42,042	42,042	1,260,150.0	1,529,048	63.0	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category	Sex	Year	Race	Hispanic	Members		Members with		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 Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table					
75-84	M	2011	All	All	1,145	669	42,040	42,040	914,290.2	1,121,377	73.2	0.0	.
75-84	F	2012	All	All	960	582	37,626	37,626	1,344,101.5	1,596,607	43.3	0.0	.
75-84	M	2012	All	All	839	486	36,866	36,866	987,511.3	1,185,674	49.2	0.0	.
75-84	F	2013	All	All	983	581	39,151	39,151	1,375,502.0	1,631,275	42.2	0.0	.
75-84	M	2013	All	All	760	450	38,294	38,294	1,023,152.2	1,224,894	44.0	0.0	.
75-84	F	2014	All	All	729	477	40,169	40,169	1,419,162.9	1,706,706	33.6	0.0	.
75-84	M	2014	All	All	686	416	39,943	39,943	1,066,674.0	1,297,961	39.0	0.0	.
75-84	F	2015	All	All	652	425	40,884	40,884	1,441,481.0	1,730,757	29.5	0.0	.
75-84	M	2015	All	All	515	330	41,498	41,498	1,106,917.7	1,340,393	29.8	0.0	.
75-84	F	2016	All	All	225	168	40,733	40,733	1,491,798.6	1,755,879	11.3	0.0	.
75-84	M	2016	All	All	170	135	42,103	42,103	1,162,732.7	1,377,563	11.6	0.0	.
75-84	F	2017	All	All	100	70	15,288	15,288	564,790.5	1,566,304	12.4	0.0	.
75-84	M	2017	All	All	46	35	15,763	15,763	444,031.7	1,231,925	7.9	0.0	.
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2006	All	All	235	176	7,598	7,598	90,896.0	198,659	193.6	0.0	.
85+	M	2006	All	All	122	82	4,019	4,019	35,775.4	79,974	229.2	0.0	.
85+	F	2007	All	All	701	471	21,481	21,481	214,306.7	580,606	219.8	0.0	.
85+	M	2007	All	All	286	197	10,912	10,912	85,247.5	218,993	231.1	0.0	.
85+	F	2008	All	All	1,032	693	68,154	68,154	577,262.0	763,162	120.0	0.0	.
85+	M	2008	All	All	552	380	34,531	34,531	235,701.2	333,685	161.2	0.0	.
85+	F	2009	All	All	1,576	957	64,852	64,852	595,591.0	709,022	160.7	0.0	.
85+	M	2009	All	All	834	538	36,976	36,976	267,966.2	330,010	200.8	0.0	.
85+	F	2010	All	All	1,539	969	63,779	63,779	586,975.3	700,625	165.1	0.0	.
85+	M	2010	All	All	812	485	36,829	36,829	271,199.7	334,554	178.8	0.0	.

Table 4. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Main and Secondary Analysis

Age Category (Years)	Sex	Year	Race	Hispanic	Stroke-Related	Members with Stroke-Related	Records of Death in	Members with Record of Death in	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
					Death Codes	Death Codes	Death Table	Death Table			Member-Years	Member-Years	Deaths
85+	F	2011	All	All	1,539	965	66,557	66,557	620,676.4	757,785	155.5	0.0	.
85+	M	2011	All	All	828	515	37,742	37,742	294,203.7	370,186	175.0	0.0	.
85+	F	2012	All	All	1,211	730	61,752	61,752	666,402.8	799,987	109.5	0.0	.
85+	M	2012	All	All	633	394	33,461	33,461	322,287.0	398,456	122.3	0.0	.
85+	F	2013	All	All	1,063	675	64,138	64,138	690,290.0	829,329	97.8	0.0	.
85+	M	2013	All	All	576	367	35,220	35,220	338,937.1	417,549	108.3	0.0	.
85+	F	2014	All	All	963	641	65,335	65,335	707,049.2	850,270	90.7	0.0	.
85+	M	2014	All	All	580	352	35,958	35,958	351,682.0	434,959	100.1	0.0	.
85+	F	2015	All	All	700	486	65,696	65,696	695,311.3	843,783	69.9	0.0	.
85+	M	2015	All	All	400	282	36,451	36,451	351,959.4	438,410	80.1	0.0	.
85+	F	2016	All	All	209	160	62,196	62,196	696,426.2	828,286	23.0	0.0	.
85+	M	2016	All	All	104	84	35,110	35,110	359,523.4	437,265	23.4	0.0	.
85+	F	2017	All	All	77	60	23,676	23,676	263,425.7	722,729	22.8	0.0	.
85+	M	2017	All	All	47	36	13,306	13,306	137,269.8	380,100	26.2	0.0	.
All	All	All	American Indian/Alaskan Native	All	31	25	7,693	7,693	173,255.5	63,303	14.4	0.0	.
All	All	All	Asian	All	109	84	19,635	19,635	635,651.5	253,613	13.2	0.0	.
All	All	All	Black/African American	All	1,249	1,022	156,398	156,398	4,008,828.5	1,425,842	25.5	0.0	.
All	All	All	Native Hawaiian/Pacific Islander	All	120	93	14,326	14,326	537,389.3	188,292	17.3	0.0	.
All	All	All	Unknown	All	47,537	25,019	1,049,957	1,049,957	352,491,565.1	114,674,600	7.1	0.0	.
All	All	All	White	All	10,107	8,261	1,460,788	1,460,788	35,920,123.0	10,656,617	23.0	0.0	.
All	All	All	All	No	11,616	9,485	1,658,841	1,658,841	41,275,279.1	12,587,672	23.0	0.0	.
All	All	All	All	Unknown	47,356	24,868	1,016,919	1,016,919	351,576,768.0	114,311,713	7.1	0.0	.
All	All	All	All	Yes	181	151	33,037	33,037	914,765.8	362,882	16.5	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category			Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death	Rate of Stroke-Related	Age
(Years)	Sex	Year			Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Death among all Deaths	Standardized Death Rate
All	All	All	All	All	146,249	83,858	2,708,797	2,708,797	393,766,813	127,262,267	21.3	0.0	15.1
<45	All	All	All	All	3,942	1,740	58,516	58,516	207,075,163.6	79,190,332	0.8	0.0	.
45-54	All	All	All	All	7,402	3,168	96,915	96,915	61,794,592.8	25,010,181	5.1	0.0	.
55-64	All	All	All	All	16,484	7,610	220,937	220,937	53,098,714.1	20,106,607	14.3	0.0	.
65-74	All	All	All	All	26,106	15,040	537,377	537,377	39,512,574.6	14,381,563	38.1	0.0	.
75-84	All	All	All	All	46,217	27,205	809,323	809,323	22,817,158.8	7,498,320	119.2	0.0	.
85+	All	All	All	All	46,098	29,095	985,729	985,729	9,456,365.1	3,227,699	307.7	0.0	.
All	F	All	All	All	77,546	45,501	1,434,192	1,434,192	203,083,174.3	64,914,217	22.4	0.0	.
All	M	All	All	All	68,703	38,357	1,274,605	1,274,605	190,683,638.6	62,348,050	20.1	0.0	.
<45	F	All	All	All	1,738	742	21,865	21,865	103,088,479.6	39,431,049	0.7	0.0	.
<45	M	All	All	All	2,204	998	36,651	36,651	103,986,684.0	39,759,283	1.0	0.0	.
45-54	F	All	All	All	3,123	1,378	39,469	39,469	31,609,440.6	12,724,125	4.4	0.0	.
45-54	M	All	All	All	4,279	1,790	57,446	57,446	30,185,152.3	12,286,056	5.9	0.0	.
55-64	F	All	All	All	6,976	3,298	89,960	89,960	27,525,676.9	10,337,903	12.0	0.0	.
55-64	M	All	All	All	9,508	4,312	130,977	130,977	25,573,037.3	9,768,704	16.9	0.0	.
65-74	F	All	All	All	11,733	6,882	239,070	239,070	21,260,019.2	7,647,608	32.4	0.0	.
65-74	M	All	All	All	14,373	8,158	298,307	298,307	18,252,555.4	6,733,955	44.7	0.0	.
75-84	F	All	All	All	24,344	14,428	408,614	408,614	13,189,699.3	4,277,308	109.4	0.0	.
75-84	M	All	All	All	21,873	12,777	400,709	400,709	9,627,459.4	3,221,012	132.7	0.0	.
85+	F	All	All	All	29,632	18,773	635,214	635,214	6,404,612.6	2,117,300	293.1	0.0	.
85+	M	All	All	All	16,466	10,322	350,515	350,515	3,051,752.5	1,110,399	338.2	0.0	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	3,522	2,272	35,818	35,818	8,086,004.8	18,065,591	28.1	0.1	30.0
All	All	2007	All	All	8,135	5,125	94,496	94,496	17,297,202.4	26,483,395	29.6	0.1	28.5
All	All	2008	All	All	15,922	9,367	284,891	284,891	30,967,085.6	46,558,226	30.2	0.0	20.1
All	All	2009	All	All	21,702	11,766	285,871	285,871	37,720,256.7	46,401,612	31.2	0.0	23.4
All	All	2010	All	All	21,274	11,521	273,230	273,230	36,995,638.5	45,779,795	31.1	0.0	23.4
All	All	2011	All	All	20,511	11,194	279,350	279,350	38,569,326.1	47,817,043	29.0	0.0	21.2
All	All	2012	All	All	14,722	8,278	250,088	250,088	39,961,454.0	48,876,848	20.7	0.0	14.5
All	All	2013	All	All	13,845	7,838	262,878	262,878	40,854,392.3	49,650,082	19.2	0.0	13.2

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death	Rate of Stroke-Related	Age
(Years)	Sex				Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Death among all Deaths	Standardized Death Rate
All	All	2014	All	All	12,680	7,480	273,460	273,460	40,849,917.1	50,917,319	18.3	0.0	12.1
All	All	2015	All	All	9,909	6,104	282,071	282,071	41,799,437.6	51,404,679	14.6	0.0	9.7
All	All	2016	All	All	2,989	2,166	281,276	281,276	43,290,574.8	53,150,819	5.0	0.0	3.4
All	All	2017	All	All	1,038	747	105,368	105,368	17,375,523.1	46,620,837	4.3	0.0	3.0
<45	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2006	All	All	94	55	1,549	1,549	4,747,973.7	10,942,714	1.2	0.0	.
<45	All	2007	All	All	189	122	3,557	3,557	9,915,137.9	13,947,994	1.2	0.0	.
<45	All	2008	All	All	464	230	7,232	7,232	16,151,162.2	26,320,475	1.4	0.0	.
<45	All	2009	All	All	689	281	7,666	7,666	20,439,137.4	26,648,612	1.4	0.0	.
<45	All	2010	All	All	697	279	7,232	7,232	19,924,414.7	26,000,505	1.4	0.0	.
<45	All	2011	All	All	604	257	6,870	6,870	20,554,906.4	26,737,666	1.3	0.0	.
<45	All	2012	All	All	368	141	4,683	4,683	21,032,836.7	27,056,975	0.7	0.0	.
<45	All	2013	All	All	304	127	4,793	4,793	21,367,084.9	27,362,701	0.6	0.0	.
<45	All	2014	All	All	235	99	4,519	4,519	21,026,033.3	27,542,363	0.5	0.0	.
<45	All	2015	All	All	176	77	4,448	4,448	21,230,330.3	27,500,630	0.4	0.0	.
<45	All	2016	All	All	93	55	4,383	4,383	21,811,573.9	28,400,809	0.3	0.0	.
<45	All	2017	All	All	29	17	1,584	1,584	8,874,572.1	24,219,439	0.2	0.0	.
45-54	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2006	All	All	175	100	2,114	2,114	1,415,857.6	3,234,537	7.1	0.0	.
45-54	All	2007	All	All	417	239	5,085	5,085	2,997,185.9	4,316,677	8.0	0.0	.
45-54	All	2008	All	All	777	384	11,509	11,509	4,961,945.0	7,895,521	7.7	0.0	.
45-54	All	2009	All	All	1,255	493	12,254	12,254	6,204,305.4	8,088,645	7.9	0.0	.
45-54	All	2010	All	All	1,265	492	11,211	11,211	6,121,765.0	8,018,533	8.0	0.0	.
45-54	All	2011	All	All	1,052	433	10,645	10,645	6,251,633.9	8,161,573	6.9	0.0	.
45-54	All	2012	All	All	658	267	8,131	8,131	6,270,588.3	8,130,604	4.3	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related	Rate of	Age Standardized
(Years)	Sex				Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Stroke-Related Death among all Deaths	
45-54	All	2013	All	All	608	249	8,450	8,450	6,283,878.2	8,111,767	4.0	0.0	.
45-54	All	2014	All	All	506	209	8,408	8,408	6,139,597.1	8,160,649	3.4	0.0	.
45-54	All	2015	All	All	451	179	8,183	8,183	6,212,655.8	8,160,127	2.9	0.0	.
45-54	All	2016	All	All	171	91	7,928	7,928	6,364,415.4	8,374,274	1.4	0.0	.
45-54	All	2017	All	All	67	32	2,997	2,997	2,570,765.2	7,009,192	1.2	0.0	.
55-64	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2006	All	All	310	191	4,258	4,258	1,039,471.8	2,327,974	18.4	0.0	.
55-64	All	2007	All	All	737	430	9,783	9,783	2,249,160.5	3,250,421	19.1	0.0	.
55-64	All	2008	All	All	1,785	855	22,901	22,901	3,794,039.7	5,807,570	22.5	0.0	.
55-64	All	2009	All	All	2,524	1,130	25,035	25,035	4,780,158.5	6,052,747	23.6	0.0	.
55-64	All	2010	All	All	2,524	1,086	23,760	23,760	4,890,657.9	6,258,023	22.2	0.0	.
55-64	All	2011	All	All	2,463	1,078	23,991	23,991	5,196,485.2	6,603,249	20.7	0.0	.
55-64	All	2012	All	All	1,587	715	18,876	18,876	5,342,819.0	6,781,508	13.4	0.0	.
55-64	All	2013	All	All	1,657	692	19,771	19,771	5,557,619.8	6,992,237	12.5	0.0	.
55-64	All	2014	All	All	1,378	613	21,073	21,073	5,617,227.5	7,301,154	10.9	0.0	.
55-64	All	2015	All	All	933	495	21,514	21,514	5,880,571.3	7,490,221	8.4	0.0	.
55-64	All	2016	All	All	432	231	21,748	21,748	6,194,950.9	7,896,025	3.7	0.0	.
55-64	All	2017	All	All	154	94	8,227	8,227	2,555,551.9	6,825,468	3.7	0.0	.
65-74	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2006	All	All	586	362	5,850	5,850	460,073.5	1,027,824	78.7	0.1	.
65-74	All	2007	All	All	1,323	797	15,814	15,814	1,125,842.6	3,061,586	70.8	0.1	.
65-74	All	2008	All	All	2,864	1,628	52,677	52,677	3,201,930.1	4,307,896	50.8	0.0	.
65-74	All	2009	All	All	3,714	1,971	51,019	51,019	3,308,089.0	3,954,854	59.6	0.0	.
65-74	All	2010	All	All	3,481	1,902	47,746	47,746	3,153,852.1	3,849,042	60.3	0.0	.
65-74	All	2011	All	All	3,354	1,848	49,463	49,463	3,475,804.8	4,465,221	53.2	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related	Rate of	Age Standardized
(Years)	Sex				Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Stroke-Related Death among all Deaths	
65-74	All	2012	All	All	2,659	1,502	48,693	48,693	3,993,919.1	4,956,195	37.6	0.0	.
65-74	All	2013	All	All	2,478	1,447	53,061	53,061	4,217,092.3	5,136,655	34.3	0.0	.
65-74	All	2014	All	All	2,524	1,526	58,055	58,055	4,521,995.5	5,705,200	33.7	0.0	.
65-74	All	2015	All	All	2,258	1,362	63,397	63,397	4,879,900.6	6,058,593	27.9	0.0	.
65-74	All	2016	All	All	633	507	67,075	67,075	5,208,978.0	6,299,272	9.7	0.0	.
65-74	All	2017	All	All	232	188	24,527	24,527	1,965,097.0	5,523,622	9.6	0.0	.
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2006	All	All	1,236	794	10,430	10,430	294,824.3	642,927	269.3	0.1	.
75-84	All	2007	All	All	2,772	1,722	27,864	27,864	708,211.3	1,951,887	243.1	0.1	.
75-84	All	2008	All	All	5,157	3,098	87,887	87,887	2,043,089.4	2,707,768	151.6	0.0	.
75-84	All	2009	All	All	6,960	3,868	88,069	88,069	2,123,362.6	2,497,042	182.2	0.0	.
75-84	All	2010	All	All	6,800	3,743	82,673	82,673	2,045,374.8	2,427,589	183.0	0.0	.
75-84	All	2011	All	All	6,379	3,591	84,082	84,082	2,174,440.2	2,650,425	165.1	0.0	.
75-84	All	2012	All	All	4,473	2,661	74,492	74,492	2,331,612.7	2,782,281	114.1	0.0	.
75-84	All	2013	All	All	4,373	2,537	77,445	77,445	2,398,654.2	2,856,169	105.8	0.0	.
75-84	All	2014	All	All	3,781	2,319	80,112	80,112	2,485,837.0	3,004,667	93.3	0.0	.
75-84	All	2015	All	All	3,032	1,938	82,382	82,382	2,548,398.7	3,071,150	76.0	0.0	.
75-84	All	2016	All	All	939	712	82,836	82,836	2,654,531.4	3,133,442	26.8	0.0	.
75-84	All	2017	All	All	315	222	31,051	31,051	1,008,822.3	2,798,229	22.0	0.0	.
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2006	All	All	1,121	770	11,617	11,617	126,671.4	278,633	607.9	0.1	.
85+	All	2007	All	All	2,697	1,815	32,393	32,393	299,554.2	799,599	605.9	0.1	.
85+	All	2008	All	All	4,875	3,172	102,685	102,685	812,963.2	1,096,847	390.2	0.0	.
85+	All	2009	All	All	6,560	4,023	101,828	101,828	863,557.2	1,039,032	465.9	0.0	.
85+	All	2010	All	All	6,507	4,019	100,608	100,608	858,175.0	1,035,179	468.3	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
85+	All	2011	All	All	6,659	3,987	104,299	104,299	914,880.0	1,127,971	435.8	0.0	.	
85+	All	2012	All	All	4,977	2,992	95,213	95,213	988,689.8	1,198,443	302.6	0.0	.	
85+	All	2013	All	All	4,425	2,786	99,358	99,358	1,029,227.2	1,246,878	270.7	0.0	.	
85+	All	2014	All	All	4,256	2,714	101,293	101,293	1,058,731.3	1,285,229	256.3	0.0	.	
85+	All	2015	All	All	3,059	2,053	102,147	102,147	1,047,270.7	1,282,193	196.0	0.0	.	
85+	All	2016	All	All	721	570	97,306	97,306	1,055,949.6	1,265,551	54.0	0.0	.	
85+	All	2017	All	All	241	194	36,982	36,982	400,695.5	1,102,829	48.4	0.0	.	
All	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
All	F	2006	All	All	1,958	1,261	18,437	18,437	4,145,279.9	9,236,450	30.4	0.1	.	
All	M	2006	All	All	1,564	1,011	17,381	17,381	3,940,724.9	8,829,141	25.7	0.1	.	
All	F	2007	All	All	4,573	2,889	50,064	50,064	8,881,385.6	13,874,081	32.5	0.1	.	
All	M	2007	All	All	3,562	2,236	44,432	44,432	8,415,816.8	12,609,314	26.6	0.1	.	
All	F	2008	All	All	8,565	5,066	155,163	155,163	16,170,665.9	24,087,750	31.3	0.0	.	
All	M	2008	All	All	7,357	4,301	129,728	129,728	14,796,419.7	22,470,476	29.1	0.0	.	
All	F	2009	All	All	11,301	6,322	150,116	150,116	19,546,364.6	23,896,783	32.3	0.0	.	
All	M	2009	All	All	10,401	5,444	135,755	135,755	18,173,892.1	22,504,829	30.0	0.0	.	
All	F	2010	All	All	11,261	6,259	144,018	144,018	19,165,001.8	23,590,881	32.7	0.0	.	
All	M	2010	All	All	10,013	5,262	129,212	129,212	17,830,636.6	22,188,914	29.5	0.0	.	
All	F	2011	All	All	10,734	6,002	146,815	146,815	19,927,025.0	24,571,873	30.1	0.0	.	
All	M	2011	All	All	9,777	5,192	132,535	132,535	18,642,301.0	23,245,170	27.9	0.0	.	
All	F	2012	All	All	7,863	4,549	133,567	133,567	20,621,822.4	25,095,276	22.1	0.0	.	
All	M	2012	All	All	6,859	3,729	116,521	116,521	19,339,631.7	23,781,572	19.3	0.0	.	
All	F	2013	All	All	7,382	4,292	140,393	140,393	21,063,045.1	25,502,930	20.4	0.0	.	
All	M	2013	All	All	6,463	3,546	122,485	122,485	19,791,347.2	24,147,152	17.9	0.0	.	

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
All	F	2014	All	All	6,661	4,047	145,207	145,207	21,001,749.9	26,091,104	19.3	0.0	.	
All	M	2014	All	All	6,019	3,433	128,253	128,253	19,848,167.2	24,826,215	17.3	0.0	.	
All	F	2015	All	All	5,180	3,306	148,589	148,589	21,465,811.4	26,297,821	15.4	0.0	.	
All	M	2015	All	All	4,729	2,798	133,482	133,482	20,333,626.1	25,106,858	13.8	0.0	.	
All	F	2016	All	All	1,533	1,115	146,774	146,774	22,206,255.5	27,148,782	5.0	0.0	.	
All	M	2016	All	All	1,456	1,051	134,502	134,502	21,084,319.3	26,002,037	5.0	0.0	.	
All	F	2017	All	All	535	393	55,049	55,049	8,888,767.1	23,847,420	4.4	0.0	.	
All	M	2017	All	All	503	354	50,319	50,319	8,486,756.0	22,773,417	4.2	0.0	.	
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2006	All	All	45	25	529	529	2,371,748.7	5,460,859	1.1	0.0	.	
<45	M	2006	All	All	49	30	1,020	1,020	2,376,225.1	5,481,855	1.3	0.0	.	
<45	F	2007	All	All	88	55	1,290	1,290	4,944,571.7	6,944,075	1.1	0.0	.	
<45	M	2007	All	All	101	67	2,267	2,267	4,970,566.2	7,003,919	1.3	0.0	.	
<45	F	2008	All	All	195	94	2,691	2,691	8,072,326.7	13,145,671	1.2	0.0	.	
<45	M	2008	All	All	269	136	4,541	4,541	8,078,835.5	13,174,804	1.7	0.0	.	
<45	F	2009	All	All	325	131	2,856	2,856	10,225,878.5	13,313,744	1.3	0.0	.	
<45	M	2009	All	All	364	150	4,810	4,810	10,213,259.0	13,334,868	1.5	0.0	.	
<45	F	2010	All	All	338	121	2,672	2,672	9,983,178.5	13,015,039	1.2	0.0	.	
<45	M	2010	All	All	359	158	4,560	4,560	9,941,236.1	12,985,466	1.6	0.0	.	
<45	F	2011	All	All	238	98	2,469	2,469	10,269,962.6	13,326,447	1.0	0.0	.	
<45	M	2011	All	All	366	159	4,401	4,401	10,284,943.8	13,411,219	1.5	0.0	.	
<45	F	2012	All	All	130	57	1,699	1,699	10,481,430.6	13,466,022	0.5	0.0	.	
<45	M	2012	All	All	238	84	2,984	2,984	10,551,406.1	13,590,953	0.8	0.0	.	
<45	F	2013	All	All	144	53	1,826	1,826	10,634,621.6	13,616,785	0.5	0.0	.	

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death	Rate of Stroke-Related	Age Standardized Death Rate
(Years)	Sex				Death Codes	with Stroke-Related Death Codes	Record of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Death among all Deaths	
<45	M	2013	All	All	160	74	2,967	2,967	10,732,463.3	13,745,916	0.7	0.0	.
<45	F	2014	All	All	88	37	1,719	1,719	10,424,061.1	13,659,429	0.4	0.0	.
<45	M	2014	All	All	147	62	2,800	2,800	10,601,972.2	13,882,934	0.6	0.0	.
<45	F	2015	All	All	93	44	1,744	1,744	10,513,900.0	13,606,886	0.4	0.0	.
<45	M	2015	All	All	83	33	2,704	2,704	10,716,430.3	13,893,744	0.3	0.0	.
<45	F	2016	All	All	42	20	1,758	1,758	10,783,083.3	14,034,771	0.2	0.0	.
<45	M	2016	All	All	51	35	2,625	2,625	11,028,490.6	14,366,038	0.3	0.0	.
<45	F	2017	All	All	12	7	612	612	4,383,716.3	11,967,814	0.2	0.0	.
<45	M	2017	All	All	17	10	972	972	4,490,855.8	12,251,625	0.2	0.0	.
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2006	All	All	63	39	854	854	729,588.4	1,663,943	5.3	0.0	.
45-54	M	2006	All	All	112	61	1,260	1,260	686,269.2	1,570,594	8.9	0.0	.
45-54	F	2007	All	All	179	104	2,091	2,091	1,541,777.1	2,206,942	6.7	0.0	.
45-54	M	2007	All	All	238	135	2,994	2,994	1,455,408.9	2,109,735	9.3	0.0	.
45-54	F	2008	All	All	359	171	4,612	4,612	2,552,609.4	4,052,806	6.7	0.0	.
45-54	M	2008	All	All	418	213	6,897	6,897	2,409,335.6	3,842,715	8.8	0.0	.
45-54	F	2009	All	All	525	208	5,062	5,062	3,195,760.8	4,148,514	6.5	0.0	.
45-54	M	2009	All	All	730	285	7,192	7,192	3,008,544.6	3,940,131	9.5	0.0	.
45-54	F	2010	All	All	540	220	4,613	4,613	3,154,587.0	4,117,406	7.0	0.0	.
45-54	M	2010	All	All	725	272	6,598	6,598	2,967,178.0	3,901,127	9.2	0.0	.
45-54	F	2011	All	All	429	186	4,233	4,233	3,210,115.2	4,171,962	5.8	0.0	.
45-54	M	2011	All	All	623	247	6,412	6,412	3,041,518.7	3,989,611	8.1	0.0	.
45-54	F	2012	All	All	288	121	3,245	3,245	3,209,759.2	4,145,650	3.8	0.0	.
45-54	M	2012	All	All	370	146	4,886	4,886	3,060,829.1	3,984,954	4.8	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death	Rate of Stroke-Related	Age Standardized Death Rate
(Years)	Sex				Death Codes	with Stroke-Related Death Codes	Record of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Death among all Deaths	
45-54	F	2013	All	All	250	103	3,414	3,414	3,211,918.8	4,137,960	3.2	0.0	.
45-54	M	2013	All	All	358	146	5,036	5,036	3,071,959.3	3,973,807	4.8	0.0	.
45-54	F	2014	All	All	232	92	3,458	3,458	3,118,457.7	4,142,614	3.0	0.0	.
45-54	M	2014	All	All	274	117	4,950	4,950	3,021,139.5	4,018,035	3.9	0.0	.
45-54	F	2015	All	All	165	76	3,342	3,342	3,153,784.3	4,137,772	2.4	0.0	.
45-54	M	2015	All	All	286	103	4,841	4,841	3,058,871.5	4,022,355	3.4	0.0	.
45-54	F	2016	All	All	67	47	3,321	3,321	3,227,928.1	4,242,130	1.5	0.0	.
45-54	M	2016	All	All	104	44	4,607	4,607	3,136,487.3	4,132,144	1.4	0.0	.
45-54	F	2017	All	All	26	11	1,224	1,224	1,303,154.5	3,549,217	0.8	0.0	.
45-54	M	2017	All	All	41	21	1,773	1,773	1,267,610.6	3,459,975	1.7	0.0	.
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2006	All	All	124	77	1,765	1,765	536,700.1	1,200,502	14.3	0.0	.
55-64	M	2006	All	All	186	114	2,493	2,493	502,771.7	1,127,472	22.7	0.0	.
55-64	F	2007	All	All	340	192	3,968	3,968	1,161,590.7	1,678,053	16.5	0.0	.
55-64	M	2007	All	All	397	238	5,815	5,815	1,087,569.8	1,572,368	21.9	0.0	.
55-64	F	2008	All	All	769	365	9,499	9,499	1,972,242.2	3,013,819	18.5	0.0	.
55-64	M	2008	All	All	1,016	490	13,402	13,402	1,821,797.6	2,793,751	26.9	0.0	.
55-64	F	2009	All	All	1,060	492	10,186	10,186	2,490,431.6	3,136,413	19.8	0.0	.
55-64	M	2009	All	All	1,464	638	14,849	14,849	2,289,726.9	2,916,334	27.9	0.0	.
55-64	F	2010	All	All	1,112	468	9,653	9,653	2,553,674.5	3,254,415	18.3	0.0	.
55-64	M	2010	All	All	1,412	618	14,107	14,107	2,336,983.4	3,003,608	26.4	0.0	.
55-64	F	2011	All	All	1,015	482	9,733	9,733	2,709,113.7	3,423,769	17.8	0.0	.
55-64	M	2011	All	All	1,448	596	14,258	14,258	2,487,371.5	3,179,480	24.0	0.0	.
55-64	F	2012	All	All	685	306	7,672	7,672	2,777,980.7	3,506,829	11.0	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death	Rate of Stroke-Related	Age Standardized
(Years)	Sex				Death Codes	with Stroke-Related Death Codes	Records of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Death among all Deaths	
55-64	M	2012	All	All	902	409	11,204	11,204	2,564,838.3	3,274,679	15.9	0.0	.
55-64	F	2013	All	All	683	288	8,006	8,006	2,886,142.7	3,622,071	10.0	0.0	.
55-64	M	2013	All	All	974	404	11,765	11,765	2,671,477.0	3,370,166	15.1	0.0	.
55-64	F	2014	All	All	526	272	8,589	8,589	2,897,079.6	3,761,050	9.4	0.0	.
55-64	M	2014	All	All	852	341	12,484	12,484	2,720,147.9	3,540,104	12.5	0.0	.
55-64	F	2015	All	All	388	215	8,676	8,676	3,031,012.2	3,855,408	7.1	0.0	.
55-64	M	2015	All	All	545	280	12,838	12,838	2,849,559.1	3,634,813	9.8	0.0	.
55-64	F	2016	All	All	211	103	8,827	8,827	3,194,084.4	4,060,872	3.2	0.0	.
55-64	M	2016	All	All	221	128	12,921	12,921	3,000,866.5	3,835,153	4.3	0.0	.
55-64	F	2017	All	All	63	38	3,386	3,386	1,315,624.4	3,509,732	2.9	0.0	.
55-64	M	2017	All	All	91	56	4,841	4,841	1,239,927.5	3,315,736	4.5	0.0	.
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2006	All	All	263	152	2,480	2,480	241,737.8	538,088	62.9	0.1	.
65-74	M	2006	All	All	323	210	3,370	3,370	218,335.7	489,736	96.2	0.1	.
65-74	F	2007	All	All	651	389	6,991	6,991	597,270.2	1,695,088	65.1	0.1	.
65-74	M	2007	All	All	672	408	8,823	8,823	528,572.4	1,366,498	77.2	0.0	.
65-74	F	2008	All	All	1,283	739	23,811	23,811	1,753,642.0	2,334,159	42.1	0.0	.
65-74	M	2008	All	All	1,581	889	28,866	28,866	1,448,288.1	1,973,737	61.4	0.0	.
65-74	F	2009	All	All	1,589	879	22,369	22,369	1,780,123.5	2,114,196	49.4	0.0	.
65-74	M	2009	All	All	2,125	1,092	28,650	28,650	1,527,965.4	1,840,658	71.5	0.0	.
65-74	F	2010	All	All	1,473	839	21,221	21,221	1,687,993.5	2,046,054	49.7	0.0	.
65-74	M	2010	All	All	2,008	1,063	26,525	26,525	1,465,858.6	1,802,988	72.5	0.0	.
65-74	F	2011	All	All	1,503	851	21,781	21,781	1,856,522.9	2,378,887	45.8	0.0	.
65-74	M	2011	All	All	1,851	997	27,682	27,682	1,619,281.9	2,086,334	61.6	0.0	.

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
65-74	F	2012	All	All	1,250	714	21,573	21,573	2,141,739.5	2,646,897	33.3	0.0	.	
65-74	M	2012	All	All	1,409	788	27,120	27,120	1,852,179.5	2,309,298	42.5	0.0	.	
65-74	F	2013	All	All	1,173	687	23,858	23,858	2,264,201.1	2,745,599	30.3	0.0	.	
65-74	M	2013	All	All	1,305	760	29,203	29,203	1,952,891.2	2,391,056	38.9	0.0	.	
65-74	F	2014	All	All	1,165	689	25,937	25,937	2,435,712.2	3,061,371	28.3	0.0	.	
65-74	M	2014	All	All	1,359	837	32,118	32,118	2,086,283.4	2,643,829	40.1	0.0	.	
65-74	F	2015	All	All	992	623	28,247	28,247	2,630,182.7	3,249,260	23.7	0.0	.	
65-74	M	2015	All	All	1,266	739	35,150	35,150	2,249,717.9	2,809,333	32.8	0.0	.	
65-74	F	2016	All	All	277	225	29,939	29,939	2,812,848.4	3,382,438	8.0	0.0	.	
65-74	M	2016	All	All	356	282	37,136	37,136	2,396,129.6	2,916,834	11.8	0.0	.	
65-74	F	2017	All	All	114	95	10,863	10,863	1,058,045.4	2,976,923	9.0	0.0	.	
65-74	M	2017	All	All	118	93	13,664	13,664	907,051.6	2,546,699	10.3	0.0	.	
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2006	All	All	722	451	5,211	5,211	174,129.5	378,671	259.0	0.1	.	
75-84	M	2006	All	All	514	343	5,219	5,219	120,694.8	264,256	284.2	0.1	.	
75-84	F	2007	All	All	1,462	913	14,243	14,243	420,968.1	1,212,571	216.9	0.1	.	
75-84	M	2007	All	All	1,310	809	13,621	13,621	287,243.1	739,316	281.6	0.1	.	
75-84	F	2008	All	All	2,790	1,651	46,396	46,396	1,241,739.7	1,623,410	133.0	0.0	.	
75-84	M	2008	All	All	2,367	1,447	41,491	41,491	801,349.7	1,084,358	180.6	0.0	.	
75-84	F	2009	All	All	3,640	2,047	44,791	44,791	1,257,873.6	1,471,072	162.7	0.0	.	
75-84	M	2009	All	All	3,320	1,821	43,278	43,278	865,489.0	1,025,970	210.4	0.0	.	
75-84	F	2010	All	All	3,632	2,019	42,080	42,080	1,198,001.9	1,414,000	168.5	0.0	.	
75-84	M	2010	All	All	3,168	1,724	40,593	40,593	847,372.9	1,013,589	203.5	0.0	.	
75-84	F	2011	All	All	3,372	1,886	42,042	42,042	1,260,150.0	1,529,048	149.7	0.0	.	

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category (Years)		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
75-84	M	2011	All	All	3,007	1,705	42,040	42,040	914,290.2	1,121,377	186.5	0.0	.	
75-84	F	2012	All	All	2,300	1,414	37,626	37,626	1,344,101.5	1,596,607	105.2	0.0	.	
75-84	M	2012	All	All	2,173	1,247	36,866	36,866	987,511.3	1,185,674	126.3	0.0	.	
75-84	F	2013	All	All	2,243	1,340	39,151	39,151	1,375,502.0	1,631,275	97.4	0.0	.	
75-84	M	2013	All	All	2,130	1,197	38,294	38,294	1,023,152.2	1,224,894	117.0	0.0	.	
75-84	F	2014	All	All	1,973	1,211	40,169	40,169	1,419,162.9	1,706,706	85.3	0.0	.	
75-84	M	2014	All	All	1,808	1,108	39,943	39,943	1,066,674.0	1,297,961	103.9	0.0	.	
75-84	F	2015	All	All	1,570	1,018	40,884	40,884	1,441,481.0	1,730,757	70.6	0.0	.	
75-84	M	2015	All	All	1,462	920	41,498	41,498	1,106,917.7	1,340,393	83.1	0.0	.	
75-84	F	2016	All	All	470	358	40,733	40,733	1,491,798.6	1,755,879	24.0	0.0	.	
75-84	M	2016	All	All	469	354	42,103	42,103	1,162,732.7	1,377,563	30.4	0.0	.	
75-84	F	2017	All	All	170	120	15,288	15,288	564,790.5	1,566,304	21.2	0.0	.	
75-84	M	2017	All	All	145	102	15,763	15,763	444,031.7	1,231,925	23.0	0.0	.	
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	F	2006	All	All	741	517	7,598	7,598	90,896.0	198,659	568.8	0.1	.	
85+	M	2006	All	All	380	253	4,019	4,019	35,775.4	79,974	707.2	0.1	.	
85+	F	2007	All	All	1,853	1,236	21,481	21,481	214,306.7	580,606	576.7	0.1	.	
85+	M	2007	All	All	844	579	10,912	10,912	85,247.5	218,993	679.2	0.1	.	
85+	F	2008	All	All	3,169	2,046	68,154	68,154	577,262.0	763,162	354.4	0.0	.	
85+	M	2008	All	All	1,706	1,126	34,531	34,531	235,701.2	333,685	477.7	0.0	.	
85+	F	2009	All	All	4,162	2,565	64,852	64,852	595,591.0	709,022	430.7	0.0	.	
85+	M	2009	All	All	2,398	1,458	36,976	36,976	267,966.2	330,010	544.1	0.0	.	
85+	F	2010	All	All	4,166	2,592	63,779	63,779	586,975.3	700,625	441.6	0.0	.	
85+	M	2010	All	All	2,341	1,427	36,829	36,829	271,199.7	334,554	526.2	0.0	.	

Table 5. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Primary Analysis

Age Category			Race	Hispanic	Stroke-Related	Members	Members with		Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death	Rate of Stroke-Related	Age
(Years)	Sex	Year			Codes	with Stroke-Related Death Codes	Record of Death in Death Table	Record of Death in Death Table			per 100,000 Member-Years	Death among all Deaths	Standardized Death Rate
85+	F	2011	All	All	4,177	2,499	66,557	66,557	620,676.4	757,785	402.6	0.0	.
85+	M	2011	All	All	2,482	1,488	37,742	37,742	294,203.7	370,186	505.8	0.0	.
85+	F	2012	All	All	3,210	1,937	61,752	61,752	666,402.8	799,987	290.7	0.0	.
85+	M	2012	All	All	1,767	1,055	33,461	33,461	322,287.0	398,456	327.3	0.0	.
85+	F	2013	All	All	2,889	1,821	64,138	64,138	690,290.0	829,329	263.8	0.0	.
85+	M	2013	All	All	1,536	965	35,220	35,220	338,937.1	417,549	284.7	0.0	.
85+	F	2014	All	All	2,677	1,746	65,335	65,335	707,049.2	850,270	246.9	0.0	.
85+	M	2014	All	All	1,579	968	35,958	35,958	351,682.0	434,959	275.2	0.0	.
85+	F	2015	All	All	1,972	1,330	65,696	65,696	695,311.3	843,783	191.3	0.0	.
85+	M	2015	All	All	1,087	723	36,451	36,451	351,959.4	438,410	205.4	0.0	.
85+	F	2016	All	All	466	362	62,196	62,196	696,426.2	828,286	52.0	0.0	.
85+	M	2016	All	All	255	208	35,110	35,110	359,523.4	437,265	57.9	0.0	.
85+	F	2017	All	All	150	122	23,676	23,676	263,425.7	722,729	46.3	0.0	.
85+	M	2017	All	All	91	72	13,306	13,306	137,269.8	380,100	52.5	0.0	.
All	All	All	American Indian/Alaskan Native	All	66	53	7,693	7,693	173,255.5	63,303	30.6	0.0	.
All	All	All	Asian	All	236	185	19,635	19,635	635,651.5	253,613	29.1	0.0	.
All	All	All	Black/African American	All	3,732	2,976	156,398	156,398	4,008,828.5	1,425,842	74.2	0.0	.
All	All	All	Native Hawaiian/Pacific Islander	All	268	205	14,326	14,326	537,389.3	188,292	38.1	0.0	.
All	All	All	Unknown	All	115,822	59,870	1,049,957	1,049,957	352,491,565.1	114,674,600	17.0	0.1	.
All	All	All	White	All	26,125	20,569	1,460,788	1,460,788	35,920,123.0	10,656,617	57.3	0.0	.
All	All	All	All	No	30,427	23,988	1,658,841	1,658,841	41,275,279.1	12,587,672	58.1	0.0	.
All	All	All	All	Unknown	115,314	59,449	1,016,919	1,016,919	351,576,768.0	114,311,713	16.9	0.1	.
All	All	All	All	Yes	508	421	33,037	33,037	914,765.8	362,882	46.0	0.0	.

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category					Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex	Year	Race	Hispanic									
All	All	All	All	All	60,237	35,120	2,708,797	2,708,797	393,766,813	127,262,267	8.9	0.0	6.4
<45	All	All	All	All	2,128	1,045	58,516	58,516	207,075,163.6	79,190,332	0.5	0.0	.
45-54	All	All	All	All	3,768	1,706	96,915	96,915	61,794,592.8	25,010,181	2.8	0.0	.
55-64	All	All	All	All	7,607	3,647	220,937	220,937	53,098,714.1	20,106,607	6.9	0.0	.
65-74	All	All	All	All	11,068	6,519	537,377	537,377	39,512,574.6	14,381,563	16.5	0.0	.
75-84	All	All	All	All	18,786	11,304	809,323	809,323	22,817,158.8	7,498,320	49.5	0.0	.
85+	All	All	All	All	16,880	10,899	985,729	985,729	9,456,365.1	3,227,699	115.3	0.0	.
All	F	All	All	All	32,258	19,179	1,434,192	1,434,192	203,083,174.3	64,914,217	9.4	0.0	.
All	M	All	All	All	27,979	15,941	1,274,605	1,274,605	190,683,638.6	62,348,050	8.4	0.0	.
<45	F	All	All	All	943	453	21,865	21,865	103,088,479.6	39,431,049	0.4	0.0	.
<45	M	All	All	All	1,185	592	36,651	36,651	103,986,684.0	39,759,283	0.6	0.0	.
45-54	F	All	All	All	1,645	755	39,469	39,469	31,609,440.6	12,724,125	2.4	0.0	.
45-54	M	All	All	All	2,123	951	57,446	57,446	30,185,152.3	12,286,056	3.2	0.0	.
55-64	F	All	All	All	3,306	1,623	89,960	89,960	27,525,676.9	10,337,903	5.9	0.0	.
55-64	M	All	All	All	4,301	2,024	130,977	130,977	25,573,037.3	9,768,704	7.9	0.0	.
65-74	F	All	All	All	5,121	3,062	239,070	239,070	21,260,019.2	7,647,608	14.4	0.0	.
65-74	M	All	All	All	5,947	3,457	298,307	298,307	18,252,555.4	6,733,955	18.9	0.0	.
75-84	F	All	All	All	10,257	6,189	408,614	408,614	13,189,699.3	4,277,308	46.9	0.0	.
75-84	M	All	All	All	8,529	5,115	400,709	400,709	9,627,459.4	3,221,012	53.1	0.0	.
85+	F	All	All	All	10,986	7,097	635,214	635,214	6,404,612.6	2,117,300	110.8	0.0	.
85+	M	All	All	All	5,894	3,802	350,515	350,515	3,051,752.5	1,110,399	124.6	0.0	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	1,358	868	35,818	35,818	8,086,004.8	18,065,591	10.7	0.0	11.4
All	All	2007	All	All	3,232	2,092	94,496	94,496	17,297,202.4	26,483,395	12.1	0.0	11.6
All	All	2008	All	All	6,603	3,931	284,891	284,891	30,967,085.6	46,558,226	12.7	0.0	8.6
All	All	2009	All	All	9,083	5,018	285,871	285,871	37,720,256.7	46,401,612	13.3	0.0	10.1
All	All	2010	All	All	8,987	4,962	273,230	273,230	36,995,638.5	45,779,795	13.4	0.0	10.2
All	All	2011	All	All	8,443	4,678	279,350	279,350	38,569,326.1	47,817,043	12.1	0.0	8.9
All	All	2012	All	All	6,088	3,469	250,088	250,088	39,961,454.0	48,876,848	8.7	0.0	6.1
All	All	2013	All	All	5,715	3,302	262,878	262,878	40,854,392.3	49,650,082	8.1	0.0	5.6

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death in	Members with Record of Death in	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
(Years)	Sex				Codes	Death Codes	Death Table	Death Table	Years	Members	Member-Years	Deaths	Death Rate
All	All	2014	All	All	4,987	2,993	273,460	273,460	40,849,917.1	50,917,319	7.3	0.0	4.9
All	All	2015	All	All	3,938	2,490	282,071	282,071	41,799,437.6	51,404,679	6.0	0.0	4.0
All	All	2016	All	All	1,325	977	281,276	281,276	43,290,574.8	53,150,819	2.3	0.0	1.5
All	All	2017	All	All	478	340	105,368	105,368	17,375,523.1	46,620,837	2.0	0.0	1.4
<45	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2006	All	All	45	27	1,549	1,549	4,747,973.7	10,942,714	0.6	0.0	.
<45	All	2007	All	All	106	75	3,557	3,557	9,915,137.9	13,947,994	0.8	0.0	.
<45	All	2008	All	All	278	141	7,232	7,232	16,151,162.2	26,320,475	0.9	0.0	.
<45	All	2009	All	All	330	163	7,666	7,666	20,439,137.4	26,648,612	0.8	0.0	.
<45	All	2010	All	All	399	192	7,232	7,232	19,924,414.7	26,000,505	1.0	0.0	.
<45	All	2011	All	All	318	145	6,870	6,870	20,554,906.4	26,737,666	0.7	0.0	.
<45	All	2012	All	All	207	81	4,683	4,683	21,032,836.7	27,056,975	0.4	0.0	.
<45	All	2013	All	All	182	77	4,793	4,793	21,367,084.9	27,362,701	0.4	0.0	.
<45	All	2014	All	All	125	63	4,519	4,519	21,026,033.3	27,542,363	0.3	0.0	.
<45	All	2015	All	All	71	41	4,448	4,448	21,230,330.3	27,500,630	0.2	0.0	.
<45	All	2016	All	All	49	31	4,383	4,383	21,811,573.9	28,400,809	0.1	0.0	.
<45	All	2017	All	All	18	9	1,584	1,584	8,874,572.1	24,219,439	0.1	0.0	.
45-54	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2006	All	All	80	46	2,114	2,114	1,415,857.6	3,234,537	3.2	0.0	.
45-54	All	2007	All	All	218	127	5,085	5,085	2,997,185.9	4,316,677	4.2	0.0	.
45-54	All	2008	All	All	435	219	11,509	11,509	4,961,945.0	7,895,521	4.4	0.0	.
45-54	All	2009	All	All	577	252	12,254	12,254	6,204,305.4	8,088,645	4.1	0.0	.
45-54	All	2010	All	All	668	281	11,211	11,211	6,121,765.0	8,018,533	4.6	0.0	.
45-54	All	2011	All	All	571	236	10,645	10,645	6,251,633.9	8,161,573	3.8	0.0	.
45-54	All	2012	All	All	321	136	8,131	8,131	6,270,588.3	8,130,604	2.2	0.0	.

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex												
45-54	All	2013	All	All	277	124	8,450	8,450	6,283,878.2	8,111,767	2.0	0.0	.
45-54	All	2014	All	All	236	108	8,408	8,408	6,139,597.1	8,160,649	1.8	0.0	.
45-54	All	2015	All	All	239	98	8,183	8,183	6,212,655.8	8,160,127	1.6	0.0	.
45-54	All	2016	All	All	105	62	7,928	7,928	6,364,415.4	8,374,274	1.0	0.0	.
45-54	All	2017	All	All	41	17	2,997	2,997	2,570,765.2	7,009,192	0.7	0.0	.
55-64	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2006	All	All	141	85	4,258	4,258	1,039,471.8	2,327,974	8.2	0.0	.
55-64	All	2007	All	All	292	184	9,783	9,783	2,249,160.5	3,250,421	8.2	0.0	.
55-64	All	2008	All	All	844	426	22,901	22,901	3,794,039.7	5,807,570	11.2	0.0	.
55-64	All	2009	All	All	1,222	545	25,035	25,035	4,780,158.5	6,052,747	11.4	0.0	.
55-64	All	2010	All	All	1,215	534	23,760	23,760	4,890,657.9	6,258,023	10.9	0.0	.
55-64	All	2011	All	All	1,173	539	23,991	23,991	5,196,485.2	6,603,249	10.4	0.0	.
55-64	All	2012	All	All	743	352	18,876	18,876	5,342,819.0	6,781,508	6.6	0.0	.
55-64	All	2013	All	All	727	336	19,771	19,771	5,557,619.8	6,992,237	6.0	0.0	.
55-64	All	2014	All	All	579	270	21,073	21,073	5,617,227.5	7,301,154	4.8	0.0	.
55-64	All	2015	All	All	424	223	21,514	21,514	5,880,571.3	7,490,221	3.8	0.0	.
55-64	All	2016	All	All	188	115	21,748	21,748	6,194,950.9	7,896,025	1.9	0.0	.
55-64	All	2017	All	All	59	38	8,227	8,227	2,555,551.9	6,825,468	1.5	0.0	.
65-74	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2006	All	All	242	145	5,850	5,850	460,073.5	1,027,824	31.5	0.0	.
65-74	All	2007	All	All	555	342	15,814	15,814	1,125,842.6	3,061,586	30.4	0.0	.
65-74	All	2008	All	All	1,265	734	52,677	52,677	3,201,930.1	4,307,896	22.9	0.0	.
65-74	All	2009	All	All	1,612	868	51,019	51,019	3,308,089.0	3,954,854	26.2	0.0	.
65-74	All	2010	All	All	1,498	861	47,746	47,746	3,153,852.1	3,849,042	27.3	0.0	.
65-74	All	2011	All	All	1,399	774	49,463	49,463	3,475,804.8	4,465,221	22.3	0.0	.

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death in	Members with Record of Death in	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000	Rate of Stroke-Related Death among all	Age Standardized
(Years)	Codes					Death Codes	Death Table	Death Table	Member-Years			Deaths	Death Rate	
65-74	All	2012	All	All	1,129	671	48,693	48,693	3,993,919.1	4,956,195	16.8	0.0	.	
65-74	All	2013	All	All	1,082	641	53,061	53,061	4,217,092.3	5,136,655	15.2	0.0	.	
65-74	All	2014	All	All	1,051	638	58,055	58,055	4,521,995.5	5,705,200	14.1	0.0	.	
65-74	All	2015	All	All	890	565	63,397	63,397	4,879,900.6	6,058,593	11.6	0.0	.	
65-74	All	2016	All	All	257	207	67,075	67,075	5,208,978.0	6,299,272	4.0	0.0	.	
65-74	All	2017	All	All	88	73	24,527	24,527	1,965,097.0	5,523,622	3.7	0.0	.	
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	All	2006	All	All	487	302	10,430	10,430	294,824.3	642,927	102.4	0.0	.	
75-84	All	2007	All	All	1,066	691	27,864	27,864	708,211.3	1,951,887	97.6	0.0	.	
75-84	All	2008	All	All	2,154	1,308	87,887	87,887	2,043,089.4	2,707,768	64.0	0.0	.	
75-84	All	2009	All	All	2,894	1,669	88,069	88,069	2,123,362.6	2,497,042	78.6	0.0	.	
75-84	All	2010	All	All	2,828	1,614	82,673	82,673	2,045,374.8	2,427,589	78.9	0.0	.	
75-84	All	2011	All	All	2,587	1,480	84,082	84,082	2,174,440.2	2,650,425	68.1	0.0	.	
75-84	All	2012	All	All	1,819	1,085	74,492	74,492	2,331,612.7	2,782,281	46.5	0.0	.	
75-84	All	2013	All	All	1,776	1,055	77,445	77,445	2,398,654.2	2,856,169	44.0	0.0	.	
75-84	All	2014	All	All	1,429	904	80,112	80,112	2,485,837.0	3,004,667	36.4	0.0	.	
75-84	All	2015	All	All	1,193	778	82,382	82,382	2,548,398.7	3,071,150	30.5	0.0	.	
75-84	All	2016	All	All	406	312	82,836	82,836	2,654,531.4	3,133,442	11.8	0.0	.	
75-84	All	2017	All	All	147	106	31,051	31,051	1,008,822.3	2,798,229	10.5	0.0	.	
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
85+	All	2006	All	All	363	263	11,617	11,617	126,671.4	278,633	207.6	0.0	.	
85+	All	2007	All	All	995	673	32,393	32,393	299,554.2	799,599	224.7	0.0	.	
85+	All	2008	All	All	1,627	1,103	102,685	102,685	812,963.2	1,096,847	135.7	0.0	.	
85+	All	2009	All	All	2,448	1,521	101,828	101,828	863,557.2	1,039,032	176.1	0.0	.	
85+	All	2010	All	All	2,379	1,480	100,608	100,608	858,175.0	1,035,179	172.5	0.0	.	

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death in	Members with Record of Death in	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
(Years)	Sex				Codes	Death Codes	Death Table	Death Table	Years	Members	Member-Years	Deaths	Death Rate
85+	All	2011	All	All	2,395	1,504	104,299	104,299	914,880.0	1,127,971	164.4	0.0	.
85+	All	2012	All	All	1,869	1,144	95,213	95,213	988,689.8	1,198,443	115.7	0.0	.
85+	All	2013	All	All	1,671	1,069	99,358	99,358	1,029,227.2	1,246,878	103.9	0.0	.
85+	All	2014	All	All	1,567	1,010	101,293	101,293	1,058,731.3	1,285,229	95.4	0.0	.
85+	All	2015	All	All	1,121	785	102,147	102,147	1,047,270.7	1,282,193	75.0	0.0	.
85+	All	2016	All	All	320	250	97,306	97,306	1,055,949.6	1,265,551	23.7	0.0	.
85+	All	2017	All	All	125	97	36,982	36,982	400,695.5	1,102,829	24.2	0.0	.
All	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2006	All	All	744	484	18,437	18,437	4,145,279.9	9,236,450	11.7	0.0	.
All	M	2006	All	All	614	384	17,381	17,381	3,940,724.9	8,829,141	9.7	0.0	.
All	F	2007	All	All	1,856	1,208	50,064	50,064	8,881,385.6	13,874,081	13.6	0.0	.
All	M	2007	All	All	1,376	884	44,432	44,432	8,415,816.8	12,609,314	10.5	0.0	.
All	F	2008	All	All	3,521	2,122	155,163	155,163	16,170,665.9	24,087,750	13.1	0.0	.
All	M	2008	All	All	3,082	1,809	129,728	129,728	14,796,419.7	22,470,476	12.2	0.0	.
All	F	2009	All	All	4,737	2,678	150,116	150,116	19,546,364.6	23,896,783	13.7	0.0	.
All	M	2009	All	All	4,346	2,340	135,755	135,755	18,173,892.1	22,504,829	12.9	0.0	.
All	F	2010	All	All	4,838	2,703	144,018	144,018	19,165,001.8	23,590,881	14.1	0.0	.
All	M	2010	All	All	4,149	2,259	129,212	129,212	17,830,636.6	22,188,914	12.7	0.0	.
All	F	2011	All	All	4,481	2,544	146,815	146,815	19,927,025.0	24,571,873	12.8	0.0	.
All	M	2011	All	All	3,962	2,134	132,535	132,535	18,642,301.0	23,245,170	11.4	0.0	.
All	F	2012	All	All	3,244	1,899	133,567	133,567	20,621,822.4	25,095,276	9.2	0.0	.
All	M	2012	All	All	2,844	1,570	116,521	116,521	19,339,631.7	23,781,572	8.1	0.0	.
All	F	2013	All	All	3,090	1,805	140,393	140,393	21,063,045.1	25,502,930	8.6	0.0	.
All	M	2013	All	All	2,625	1,497	122,485	122,485	19,791,347.2	24,147,152	7.6	0.0	.

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)														
All	F	2014	All	All	2,580	1,621	145,207	145,207	21,001,749.9	26,091,104	7.7	0.0	.	
All	M	2014	All	All	2,407	1,372	128,253	128,253	19,848,167.2	24,826,215	6.9	0.0	.	
All	F	2015	All	All	2,156	1,383	148,589	148,589	21,465,811.4	26,297,821	6.4	0.0	.	
All	M	2015	All	All	1,782	1,107	133,482	133,482	20,333,626.1	25,106,858	5.4	0.0	.	
All	F	2016	All	All	734	533	146,774	146,774	22,206,255.5	27,148,782	2.4	0.0	.	
All	M	2016	All	All	591	444	134,502	134,502	21,084,319.3	26,002,037	2.1	0.0	.	
All	F	2017	All	All	277	199	55,049	55,049	8,888,767.1	23,847,420	2.2	0.0	.	
All	M	2017	All	All	201	141	50,319	50,319	8,486,756.0	22,773,417	1.7	0.0	.	
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
<45	F	2006	All	All	19	11	529	529	2,371,748.7	5,460,859	0.5	0.0	.	
<45	M	2006	All	All	26	16	1,020	1,020	2,376,225.1	5,481,855	0.7	0.0	.	
<45	F	2007	All	All	58	37	1,290	1,290	4,944,571.7	6,944,075	0.7	0.0	.	
<45	M	2007	All	All	48	38	2,267	2,267	4,970,566.2	7,003,919	0.8	0.0	.	
<45	F	2008	All	All	112	55	2,691	2,691	8,072,326.7	13,145,671	0.7	0.0	.	
<45	M	2008	All	All	166	86	4,541	4,541	8,078,835.5	13,174,804	1.1	0.0	.	
<45	F	2009	All	All	162	83	2,856	2,856	10,225,878.5	13,313,744	0.8	0.0	.	
<45	M	2009	All	All	168	80	4,810	4,810	10,213,259.0	13,334,868	0.8	0.0	.	
<45	F	2010	All	All	188	81	2,672	2,672	9,983,178.5	13,015,039	0.8	0.0	.	
<45	M	2010	All	All	211	111	4,560	4,560	9,941,236.1	12,985,466	1.1	0.0	.	
<45	F	2011	All	All	138	62	2,469	2,469	10,269,962.6	13,326,447	0.6	0.0	.	
<45	M	2011	All	All	180	83	4,401	4,401	10,284,943.8	13,411,219	0.8	0.0	.	
<45	F	2012	All	All	80	34	1,699	1,699	10,481,430.6	13,466,022	0.3	0.0	.	
<45	M	2012	All	All	127	47	2,984	2,984	10,551,406.1	13,590,953	0.4	0.0	.	
<45	F	2013	All	All	81	31	1,826	1,826	10,634,621.6	13,616,785	0.3	0.0	.	

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death in	Members with Record of Death in	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
(Years)	Sex	Year			Codes	Death Codes	Death Table	Death Table	Years	Members	Member-Years	Deaths	Death Rate
<45	M	2013	All	All	101	46	2,967	2,967	10,732,463.3	13,745,916	0.4	0.0	.
<45	F	2014	All	All	35	22	1,719	1,719	10,424,061.1	13,659,429	0.2	0.0	.
<45	M	2014	All	All	90	41	2,800	2,800	10,601,972.2	13,882,934	0.4	0.0	.
<45	F	2015	All	All	42	24	1,744	1,744	10,513,900.0	13,606,886	0.2	0.0	.
<45	M	2015	All	All	29	17	2,704	2,704	10,716,430.3	13,893,744	0.2	0.0	.
<45	F	2016	All	All	24	11	1,758	1,758	10,783,083.3	14,034,771	0.1	0.0	.
<45	M	2016	All	All	25	20	2,625	2,625	11,028,490.6	14,366,038	0.2	0.0	.
<45	F	2017	All	All	4	2	612	612	4,383,716.3	11,967,814	0.0	0.0	.
<45	M	2017	All	All	14	7	972	972	4,490,855.8	12,251,625	0.2	0.0	.
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2006	All	All	29	19	854	854	729,588.4	1,663,943	2.6	0.0	.
45-54	M	2006	All	All	51	27	1,260	1,260	686,269.2	1,570,594	3.9	0.0	.
45-54	F	2007	All	All	100	59	2,091	2,091	1,541,777.1	2,206,942	3.8	0.0	.
45-54	M	2007	All	All	118	68	2,994	2,994	1,455,408.9	2,109,735	4.7	0.0	.
45-54	F	2008	All	All	201	103	4,612	4,612	2,552,609.4	4,052,806	4.0	0.0	.
45-54	M	2008	All	All	234	116	6,897	6,897	2,409,335.6	3,842,715	4.8	0.0	.
45-54	F	2009	All	All	231	106	5,062	5,062	3,195,760.8	4,148,514	3.3	0.0	.
45-54	M	2009	All	All	346	146	7,192	7,192	3,008,544.6	3,940,131	4.9	0.0	.
45-54	F	2010	All	All	311	126	4,613	4,613	3,154,587.0	4,117,406	4.0	0.0	.
45-54	M	2010	All	All	357	155	6,598	6,598	2,967,178.0	3,901,127	5.2	0.0	.
45-54	F	2011	All	All	242	101	4,233	4,233	3,210,115.2	4,171,962	3.1	0.0	.
45-54	M	2011	All	All	329	135	6,412	6,412	3,041,518.7	3,989,611	4.4	0.0	.
45-54	F	2012	All	All	139	59	3,245	3,245	3,209,759.2	4,145,650	1.8	0.0	.
45-54	M	2012	All	All	182	77	4,886	4,886	3,060,829.1	3,984,954	2.5	0.0	.

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)														
45-54	F	2013	All	All	116	52	3,414	3,414	3,211,918.8	4,137,960	1.6	0.0	.	
45-54	M	2013	All	All	161	72	5,036	5,036	3,071,959.3	3,973,807	2.3	0.0	.	
45-54	F	2014	All	All	104	47	3,458	3,458	3,118,457.7	4,142,614	1.5	0.0	.	
45-54	M	2014	All	All	132	61	4,950	4,950	3,021,139.5	4,018,035	2.0	0.0	.	
45-54	F	2015	All	All	109	47	3,342	3,342	3,153,784.3	4,137,772	1.5	0.0	.	
45-54	M	2015	All	All	130	51	4,841	4,841	3,058,871.5	4,022,355	1.7	0.0	.	
45-54	F	2016	All	All	45	29	3,321	3,321	3,227,928.1	4,242,130	0.9	0.0	.	
45-54	M	2016	All	All	60	33	4,607	4,607	3,136,487.3	4,132,144	1.1	0.0	.	
45-54	F	2017	All	All	18	7	1,224	1,224	1,303,154.5	3,549,217	0.5	0.0	.	
45-54	M	2017	All	All	23	10	1,773	1,773	1,267,610.6	3,459,975	0.8	0.0	.	
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
55-64	F	2006	All	All	50	32	1,765	1,765	536,700.1	1,200,502	6.0	0.0	.	
55-64	M	2006	All	All	91	53	2,493	2,493	502,771.7	1,127,472	10.5	0.0	.	
55-64	F	2007	All	All	147	90	3,968	3,968	1,161,590.7	1,678,053	7.7	0.0	.	
55-64	M	2007	All	All	145	94	5,815	5,815	1,087,569.8	1,572,368	8.6	0.0	.	
55-64	F	2008	All	All	400	196	9,499	9,499	1,972,242.2	3,013,819	9.9	0.0	.	
55-64	M	2008	All	All	444	230	13,402	13,402	1,821,797.6	2,793,751	12.6	0.0	.	
55-64	F	2009	All	All	531	247	10,186	10,186	2,490,431.6	3,136,413	9.9	0.0	.	
55-64	M	2009	All	All	691	298	14,849	14,849	2,289,726.9	2,916,334	13.0	0.0	.	
55-64	F	2010	All	All	569	243	9,653	9,653	2,553,674.5	3,254,415	9.5	0.0	.	
55-64	M	2010	All	All	646	291	14,107	14,107	2,336,983.4	3,003,608	12.5	0.0	.	
55-64	F	2011	All	All	475	234	9,733	9,733	2,709,113.7	3,423,769	8.6	0.0	.	
55-64	M	2011	All	All	698	305	14,258	14,258	2,487,371.5	3,179,480	12.3	0.0	.	
55-64	F	2012	All	All	297	150	7,672	7,672	2,777,980.7	3,506,829	5.4	0.0	.	

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related Death	Records of Death in	Members with Record of Death in	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000	Rate of Stroke-Related Death among all	Age Standardized
(Years)	Codes					Death Codes	Death Table	Death Table	Member-Years			Deaths	Death Rate	
55-64	M	2012	All	All	446	202	11,204	11,204	2,564,838.3	3,274,679	7.9	0.0	.	
55-64	F	2013	All	All	275	132	8,006	8,006	2,886,142.7	3,622,071	4.6	0.0	.	
55-64	M	2013	All	All	452	204	11,765	11,765	2,671,477.0	3,370,166	7.6	0.0	.	
55-64	F	2014	All	All	249	128	8,589	8,589	2,897,079.6	3,761,050	4.4	0.0	.	
55-64	M	2014	All	All	330	142	12,484	12,484	2,720,147.9	3,540,104	5.2	0.0	.	
55-64	F	2015	All	All	180	95	8,676	8,676	3,031,012.2	3,855,408	3.1	0.0	.	
55-64	M	2015	All	All	244	128	12,838	12,838	2,849,559.1	3,634,813	4.5	0.0	.	
55-64	F	2016	All	All	99	56	8,827	8,827	3,194,084.4	4,060,872	1.8	0.0	.	
55-64	M	2016	All	All	89	59	12,921	12,921	3,000,866.5	3,835,153	2.0	0.0	.	
55-64	F	2017	All	All	34	20	3,386	3,386	1,315,624.4	3,509,732	1.5	0.0	.	
55-64	M	2017	All	All	25	18	4,841	4,841	1,239,927.5	3,315,736	1.5	0.0	.	
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
65-74	F	2006	All	All	109	61	2,480	2,480	241,737.8	538,088	25.2	0.0	.	
65-74	M	2006	All	All	133	84	3,370	3,370	218,335.7	489,736	38.5	0.0	.	
65-74	F	2007	All	All	268	167	6,991	6,991	597,270.2	1,695,088	28.0	0.0	.	
65-74	M	2007	All	All	287	175	8,823	8,823	528,572.4	1,366,498	33.1	0.0	.	
65-74	F	2008	All	All	563	341	23,811	23,811	1,753,642.0	2,334,159	19.4	0.0	.	
65-74	M	2008	All	All	702	393	28,866	28,866	1,448,288.1	1,973,737	27.1	0.0	.	
65-74	F	2009	All	All	695	389	22,369	22,369	1,780,123.5	2,114,196	21.9	0.0	.	
65-74	M	2009	All	All	917	479	28,650	28,650	1,527,965.4	1,840,658	31.3	0.0	.	
65-74	F	2010	All	All	668	383	21,221	21,221	1,687,993.5	2,046,054	22.7	0.0	.	
65-74	M	2010	All	All	830	478	26,525	26,525	1,465,858.6	1,802,988	32.6	0.0	.	
65-74	F	2011	All	All	642	367	21,781	21,781	1,856,522.9	2,378,887	19.8	0.0	.	
65-74	M	2011	All	All	757	407	27,682	27,682	1,619,281.9	2,086,334	25.1	0.0	.	

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category		Sex	Year	Race	Hispanic	Stroke-Related Death	Members with Stroke-Related	Records of Death in	Members with Record of Death in	Eligible Member-Years	Eligible Members	Rate of Stroke-Related Death per 100,000	Rate of Stroke-Related Death among all	Age Standardized
(Years)	Codes					Death Codes	Death Table	Death Table	Member-Years			Deaths	Death Rate	
65-74	F	2012	All	All	536	326	21,573	21,573	2,141,739.5	2,646,897	15.2	0.0	.	
65-74	M	2012	All	All	593	345	27,120	27,120	1,852,179.5	2,309,298	18.6	0.0	.	
65-74	F	2013	All	All	547	315	23,858	23,858	2,264,201.1	2,745,599	13.9	0.0	.	
65-74	M	2013	All	All	535	326	29,203	29,203	1,952,891.2	2,391,056	16.7	0.0	.	
65-74	F	2014	All	All	479	288	25,937	25,937	2,435,712.2	3,061,371	11.8	0.0	.	
65-74	M	2014	All	All	572	350	32,118	32,118	2,086,283.4	2,643,829	16.8	0.0	.	
65-74	F	2015	All	All	446	283	28,247	28,247	2,630,182.7	3,249,260	10.8	0.0	.	
65-74	M	2015	All	All	444	282	35,150	35,150	2,249,717.9	2,809,333	12.5	0.0	.	
65-74	F	2016	All	All	125	103	29,939	29,939	2,812,848.4	3,382,438	3.7	0.0	.	
65-74	M	2016	All	All	132	104	37,136	37,136	2,396,129.6	2,916,834	4.3	0.0	.	
65-74	F	2017	All	All	43	39	10,863	10,863	1,058,045.4	2,976,923	3.7	0.0	.	
65-74	M	2017	All	All	45	34	13,664	13,664	907,051.6	2,546,699	3.7	0.0	.	
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.	
75-84	F	2006	All	All	300	183	5,211	5,211	174,129.5	378,671	105.1	0.0	.	
75-84	M	2006	All	All	187	119	5,219	5,219	120,694.8	264,256	98.6	0.0	.	
75-84	F	2007	All	All	578	381	14,243	14,243	420,968.1	1,212,571	90.5	0.0	.	
75-84	M	2007	All	All	488	310	13,621	13,621	287,243.1	739,316	107.9	0.0	.	
75-84	F	2008	All	All	1,188	718	46,396	46,396	1,241,739.7	1,623,410	57.8	0.0	.	
75-84	M	2008	All	All	966	590	41,491	41,491	801,349.7	1,084,358	73.6	0.0	.	
75-84	F	2009	All	All	1,525	883	44,791	44,791	1,257,873.6	1,471,072	70.2	0.0	.	
75-84	M	2009	All	All	1,369	786	43,278	43,278	865,489.0	1,025,970	90.8	0.0	.	
75-84	F	2010	All	All	1,545	884	42,080	42,080	1,198,001.9	1,414,000	73.8	0.0	.	
75-84	M	2010	All	All	1,283	730	40,593	40,593	847,372.9	1,013,589	86.1	0.0	.	
75-84	F	2011	All	All	1,429	802	42,042	42,042	1,260,150.0	1,529,048	63.6	0.0	.	

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex	Year			Codes	Death Codes	Death Table	Death Table	Years	Members	Member-Years	Deaths	Death Rate
75-84	M	2011	All	All	1,158	678	42,040	42,040	914,290.2	1,121,377	74.2	0.0	.
75-84	F	2012	All	All	969	589	37,626	37,626	1,344,101.5	1,596,607	43.8	0.0	.
75-84	M	2012	All	All	850	496	36,866	36,866	987,511.3	1,185,674	50.2	0.0	.
75-84	F	2013	All	All	991	586	39,151	39,151	1,375,502.0	1,631,275	42.6	0.0	.
75-84	M	2013	All	All	785	469	38,294	38,294	1,023,152.2	1,224,894	45.8	0.0	.
75-84	F	2014	All	All	737	483	40,169	40,169	1,419,162.9	1,706,706	34.0	0.0	.
75-84	M	2014	All	All	692	421	39,943	39,943	1,066,674.0	1,297,961	39.5	0.0	.
75-84	F	2015	All	All	668	440	40,884	40,884	1,441,481.0	1,730,757	30.5	0.0	.
75-84	M	2015	All	All	525	338	41,498	41,498	1,106,917.7	1,340,393	30.5	0.0	.
75-84	F	2016	All	All	227	170	40,733	40,733	1,491,798.6	1,755,879	11.4	0.0	.
75-84	M	2016	All	All	179	142	42,103	42,103	1,162,732.7	1,377,563	12.2	0.0	.
75-84	F	2017	All	All	100	70	15,288	15,288	564,790.5	1,566,304	12.4	0.0	.
75-84	M	2017	All	All	47	36	15,763	15,763	444,031.7	1,231,925	8.1	0.0	.
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2006	All	All	237	178	7,598	7,598	90,896.0	198,659	195.8	0.0	.
85+	M	2006	All	All	126	85	4,019	4,019	35,775.4	79,974	237.6	0.0	.
85+	F	2007	All	All	705	474	21,481	21,481	214,306.7	580,606	221.2	0.0	.
85+	M	2007	All	All	290	199	10,912	10,912	85,247.5	218,993	233.4	0.0	.
85+	F	2008	All	All	1,057	709	68,154	68,154	577,262.0	763,162	122.8	0.0	.
85+	M	2008	All	All	570	394	34,531	34,531	235,701.2	333,685	167.2	0.0	.
85+	F	2009	All	All	1,593	970	64,852	64,852	595,591.0	709,022	162.9	0.0	.
85+	M	2009	All	All	855	551	36,976	36,976	267,966.2	330,010	205.6	0.0	.
85+	F	2010	All	All	1,557	986	63,779	63,779	586,975.3	700,625	168.0	0.0	.
85+	M	2010	All	All	822	494	36,829	36,829	271,199.7	334,554	182.2	0.0	.

Table 6. Crude and Age-Adjusted Rates of Stroke-Related Death in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, Sensitivity and Secondary Analysis

Age Category			Race	Hispanic	Stroke-Related Death Codes	Members with Stroke-Related Death Codes	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
(Years)	Sex	Year			Codes	Death Codes	Death Table	Death Table	Years	Members	Member-Years	Deaths	Death Rate
85+	F	2011	All	All	1,555	978	66,557	66,557	620,676.4	757,785	157.6	0.0	.
85+	M	2011	All	All	840	526	37,742	37,742	294,203.7	370,186	178.8	0.0	.
85+	F	2012	All	All	1,223	741	61,752	61,752	666,402.8	799,987	111.2	0.0	.
85+	M	2012	All	All	646	403	33,461	33,461	322,287.0	398,456	125.0	0.0	.
85+	F	2013	All	All	1,080	689	64,138	64,138	690,290.0	829,329	99.8	0.0	.
85+	M	2013	All	All	591	380	35,220	35,220	338,937.1	417,549	112.1	0.0	.
85+	F	2014	All	All	976	653	65,335	65,335	707,049.2	850,270	92.4	0.0	.
85+	M	2014	All	All	591	357	35,958	35,958	351,682.0	434,959	101.5	0.0	.
85+	F	2015	All	All	711	494	65,696	65,696	695,311.3	843,783	71.0	0.0	.
85+	M	2015	All	All	410	291	36,451	36,451	351,959.4	438,410	82.7	0.0	.
85+	F	2016	All	All	214	164	62,196	62,196	696,426.2	828,286	23.5	0.0	.
85+	M	2016	All	All	106	86	35,110	35,110	359,523.4	437,265	23.9	0.0	.
85+	F	2017	All	All	78	61	23,676	23,676	263,425.7	722,729	23.2	0.0	.
85+	M	2017	All	All	47	36	13,306	13,306	137,269.8	380,100	26.2	0.0	.
All	All	All	American Indian/Alaskan Native	All	31	25	7,693	7,693	173,255.5	63,303	14.4	0.0	.
All	All	All	Asian	All	113	88	19,635	19,635	635,651.5	253,613	13.8	0.0	.
All	All	All	Black/African American	All	1,317	1,067	156,398	156,398	4,008,828.5	1,425,842	26.6	0.0	.
All	All	All	Native Hawaiian/Pacific Islander	All	125	96	14,326	14,326	537,389.3	188,292	17.9	0.0	.
All	All	All	Unknown	All	48,171	25,348	1,049,957	1,049,957	352,491,565.1	114,674,600	7.2	0.0	.
All	All	All	White	All	10,480	8,496	1,460,788	1,460,788	35,920,123.0	10,656,617	23.7	0.0	.
All	All	All	All	No	12,066	9,772	1,658,841	1,658,841	41,275,279.1	12,587,672	23.7	0.0	.
All	All	All	All	Unknown	47,986	25,194	1,016,919	1,016,919	351,576,768.0	114,311,713	7.2	0.0	.
All	All	All	All	Yes	185	154	33,037	33,037	914,765.8	362,882	16.8	0.0	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
All	All	All	All	All	107,993	84,880	2,708,797	2,708,797	393,766,813	127,262,267	21.6	0.0	16.0
<45	All	All	All	All	7,687	5,977	58,516	58,516	207,075,163.6	79,190,332	2.9	0.1	.
45-54	All	All	All	All	9,953	7,645	96,915	96,915	61,794,592.8	25,010,181	12.4	0.1	.
55-64	All	All	All	All	18,355	14,264	220,937	220,937	53,098,714.1	20,106,607	26.9	0.1	.
65-74	All	All	All	All	24,712	19,681	537,377	537,377	39,512,574.6	14,381,563	49.8	0.0	.
75-84	All	All	All	All	27,988	22,048	809,323	809,323	22,817,158.8	7,498,320	96.6	0.0	.
85+	All	All	All	All	19,298	15,265	985,729	985,729	9,456,365.1	3,227,699	161.4	0.0	.
All	F	All	All	All	40,741	32,350	1,434,192	1,434,192	203,083,174.3	64,914,217	15.9	0.0	.
All	M	All	All	All	67,252	52,530	1,274,605	1,274,605	190,683,638.6	62,348,050	27.5	0.0	.
<45	F	All	All	All	2,565	2,036	21,865	21,865	103,088,479.6	39,431,049	2.0	0.1	.
<45	M	All	All	All	5,122	3,941	36,651	36,651	103,986,684.0	39,759,283	3.8	0.1	.
45-54	F	All	All	All	2,996	2,344	39,469	39,469	31,609,440.6	12,724,125	7.4	0.1	.
45-54	M	All	All	All	6,957	5,301	57,446	57,446	30,185,152.3	12,286,056	17.6	0.1	.
55-64	F	All	All	All	5,566	4,359	89,960	89,960	27,525,676.9	10,337,903	15.8	0.0	.
55-64	M	All	All	All	12,789	9,905	130,977	130,977	25,573,037.3	9,768,704	38.7	0.1	.
65-74	F	All	All	All	8,448	6,834	239,070	239,070	21,260,019.2	7,647,608	32.1	0.0	.
65-74	M	All	All	All	16,264	12,847	298,307	298,307	18,252,555.4	6,733,955	70.4	0.0	.
75-84	F	All	All	All	11,095	8,808	408,614	408,614	13,189,699.3	4,277,308	66.8	0.0	.
75-84	M	All	All	All	16,893	13,240	400,709	400,709	9,627,459.4	3,221,012	137.5	0.0	.
85+	F	All	All	All	10,071	7,969	635,214	635,214	6,404,612.6	2,117,300	124.4	0.0	.
85+	M	All	All	All	9,227	7,296	350,515	350,515	3,051,752.5	1,110,399	239.1	0.0	.
All	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	0.0
All	All	2006	All	All	2,764	1,845	35,818	35,818	8,086,004.8	18,065,591	22.8	0.1	22.7
All	All	2007	All	All	6,520	4,353	94,496	94,496	17,297,202.4	26,483,395	25.2	0.0	23.6
All	All	2008	All	All	12,011	9,177	284,891	284,891	30,967,085.6	46,558,226	29.6	0.0	21.5
All	All	2009	All	All	15,218	12,082	285,871	285,871	37,720,256.7	46,401,612	32.0	0.0	25.1
All	All	2010	All	All	15,157	11,918	273,230	273,230	36,995,638.5	45,779,795	32.2	0.0	25.3
All	All	2011	All	All	14,789	11,517	279,350	279,350	38,569,326.1	47,817,043	29.9	0.0	22.9
All	All	2012	All	All	10,233	8,238	250,088	250,088	39,961,454.0	48,876,848	20.6	0.0	15.1
All	All	2013	All	All	8,517	6,889	262,878	262,878	40,854,392.3	49,650,082	16.9	0.0	12.2

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD)	Members with SCD	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
					Codes	Codes	Table	Table	Member-Years	Members	Years	Deaths	Death Rate
All	All	2014	All	All	7,636	6,209	273,460	273,460	40,849,917.1	50,917,319	15.2	0.0	10.6
All	All	2015	All	All	7,077	5,812	282,071	282,071	41,799,437.6	51,404,679	13.9	0.0	9.6
All	All	2016	All	All	5,801	4,968	281,276	281,276	43,290,574.8	53,150,819	11.5	0.0	7.9
All	All	2017	All	All	2,270	1,872	105,368	105,368	17,375,523.1	46,620,837	10.8	0.0	7.6
<45	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	All	2006	All	All	217	149	1,549	1,549	4,747,973.7	10,942,714	3.1	0.1	.
<45	All	2007	All	All	549	380	3,557	3,557	9,915,137.9	13,947,994	3.8	0.1	.
<45	All	2008	All	All	996	759	7,232	7,232	16,151,162.2	26,320,475	4.7	0.1	.
<45	All	2009	All	All	1,279	1,002	7,666	7,666	20,439,137.4	26,648,612	4.9	0.1	.
<45	All	2010	All	All	1,187	953	7,232	7,232	19,924,414.7	26,000,505	4.8	0.1	.
<45	All	2011	All	All	1,115	872	6,870	6,870	20,554,906.4	26,737,666	4.2	0.1	.
<45	All	2012	All	All	621	490	4,683	4,683	21,032,836.7	27,056,975	2.3	0.1	.
<45	All	2013	All	All	549	418	4,793	4,793	21,367,084.9	27,362,701	2.0	0.1	.
<45	All	2014	All	All	414	330	4,519	4,519	21,026,033.3	27,542,363	1.6	0.1	.
<45	All	2015	All	All	323	272	4,448	4,448	21,230,330.3	27,500,630	1.3	0.1	.
<45	All	2016	All	All	329	270	4,383	4,383	21,811,573.9	28,400,809	1.2	0.1	.
<45	All	2017	All	All	108	82	1,584	1,584	8,874,572.1	24,219,439	0.9	0.1	.
45-54	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	All	2006	All	All	322	227	2,114	2,114	1,415,857.6	3,234,537	16.0	0.1	.
45-54	All	2007	All	All	680	475	5,085	5,085	2,997,185.9	4,316,677	15.8	0.1	.
45-54	All	2008	All	All	1,219	903	11,509	11,509	4,961,945.0	7,895,521	18.2	0.1	.
45-54	All	2009	All	All	1,576	1,255	12,254	12,254	6,204,305.4	8,088,645	20.2	0.1	.
45-54	All	2010	All	All	1,596	1,222	11,211	11,211	6,121,765.0	8,018,533	20.0	0.1	.
45-54	All	2011	All	All	1,413	1,071	10,645	10,645	6,251,633.9	8,161,573	17.1	0.1	.
45-54	All	2012	All	All	814	635	8,131	8,131	6,270,588.3	8,130,604	10.1	0.1	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
45-54	All	2013	All	All	694	541	8,450	8,450	6,283,878.2	8,111,767	8.6	0.1	.
45-54	All	2014	All	All	568	442	8,408	8,408	6,139,597.1	8,160,649	7.2	0.1	.
45-54	All	2015	All	All	517	415	8,183	8,183	6,212,655.8	8,160,127	6.7	0.1	.
45-54	All	2016	All	All	375	314	7,928	7,928	6,364,415.4	8,374,274	4.9	0.0	.
45-54	All	2017	All	All	179	145	2,997	2,997	2,570,765.2	7,009,192	5.6	0.0	.
55-64	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	All	2006	All	All	567	381	4,258	4,258	1,039,471.8	2,327,974	36.7	0.1	.
55-64	All	2007	All	All	1,126	792	9,783	9,783	2,249,160.5	3,250,421	35.2	0.1	.
55-64	All	2008	All	All	2,107	1,608	22,901	22,901	3,794,039.7	5,807,570	42.4	0.1	.
55-64	All	2009	All	All	2,785	2,199	25,035	25,035	4,780,158.5	6,052,747	46.0	0.1	.
55-64	All	2010	All	All	2,646	2,046	23,760	23,760	4,890,657.9	6,258,023	41.8	0.1	.
55-64	All	2011	All	All	2,498	1,924	23,991	23,991	5,196,485.2	6,603,249	37.0	0.1	.
55-64	All	2012	All	All	1,662	1,310	18,876	18,876	5,342,819.0	6,781,508	24.5	0.1	.
55-64	All	2013	All	All	1,310	1,050	19,771	19,771	5,557,619.8	6,992,237	18.9	0.1	.
55-64	All	2014	All	All	1,169	923	21,073	21,073	5,617,227.5	7,301,154	16.4	0.0	.
55-64	All	2015	All	All	1,183	935	21,514	21,514	5,880,571.3	7,490,221	15.9	0.0	.
55-64	All	2016	All	All	923	777	21,748	21,748	6,194,950.9	7,896,025	12.5	0.0	.
55-64	All	2017	All	All	379	319	8,227	8,227	2,555,551.9	6,825,468	12.5	0.0	.
65-74	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	All	2006	All	All	584	392	5,850	5,850	460,073.5	1,027,824	85.2	0.1	.
65-74	All	2007	All	All	1,327	858	15,814	15,814	1,125,842.6	3,061,586	76.2	0.1	.
65-74	All	2008	All	All	2,615	2,020	52,677	52,677	3,201,930.1	4,307,896	63.1	0.0	.
65-74	All	2009	All	All	3,230	2,570	51,019	51,019	3,308,089.0	3,954,854	77.7	0.1	.
65-74	All	2010	All	All	3,201	2,535	47,746	47,746	3,153,852.1	3,849,042	80.4	0.1	.
65-74	All	2011	All	All	3,246	2,539	49,463	49,463	3,475,804.8	4,465,221	73.0	0.1	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD)	Members with SCD	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
					Codes	Codes	Table	Table	Member-Years	Members	Years	Deaths	Death Rate
65-74	All	2012	All	All	2,508	2,056	48,693	48,693	3,993,919.1	4,956,195	51.5	0.0	.
65-74	All	2013	All	All	2,067	1,691	53,061	53,061	4,217,092.3	5,136,655	40.1	0.0	.
65-74	All	2014	All	All	1,849	1,525	58,055	58,055	4,521,995.5	5,705,200	33.7	0.0	.
65-74	All	2015	All	All	1,890	1,596	63,397	63,397	4,879,900.6	6,058,593	32.7	0.0	.
65-74	All	2016	All	All	1,603	1,405	67,075	67,075	5,208,978.0	6,299,272	27.0	0.0	.
65-74	All	2017	All	All	592	494	24,527	24,527	1,965,097.0	5,523,622	25.1	0.0	.
75-84	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	All	2006	All	All	622	399	10,430	10,430	294,824.3	642,927	135.3	0.0	.
75-84	All	2007	All	All	1,778	1,137	27,864	27,864	708,211.3	1,951,887	160.5	0.0	.
75-84	All	2008	All	All	3,075	2,333	87,887	87,887	2,043,089.4	2,707,768	114.2	0.0	.
75-84	All	2009	All	All	3,839	3,039	88,069	88,069	2,123,362.6	2,497,042	143.1	0.0	.
75-84	All	2010	All	All	3,826	3,048	82,673	82,673	2,045,374.8	2,427,589	149.0	0.0	.
75-84	All	2011	All	All	3,834	2,990	84,082	84,082	2,174,440.2	2,650,425	137.5	0.0	.
75-84	All	2012	All	All	2,668	2,150	74,492	74,492	2,331,612.7	2,782,281	92.2	0.0	.
75-84	All	2013	All	All	2,225	1,835	77,445	77,445	2,398,654.2	2,856,169	76.5	0.0	.
75-84	All	2014	All	All	2,066	1,703	80,112	80,112	2,485,837.0	3,004,667	68.5	0.0	.
75-84	All	2015	All	All	1,874	1,536	82,382	82,382	2,548,398.7	3,071,150	60.3	0.0	.
75-84	All	2016	All	All	1,583	1,367	82,836	82,836	2,654,531.4	3,133,442	51.5	0.0	.
75-84	All	2017	All	All	598	511	31,051	31,051	1,008,822.3	2,798,229	50.7	0.0	.
85+	All	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	All	2006	All	All	452	297	11,617	11,617	126,671.4	278,633	234.5	0.0	.
85+	All	2007	All	All	1,060	711	32,393	32,393	299,554.2	799,599	237.4	0.0	.
85+	All	2008	All	All	1,999	1,554	102,685	102,685	812,963.2	1,096,847	191.2	0.0	.
85+	All	2009	All	All	2,509	2,017	101,828	101,828	863,557.2	1,039,032	233.6	0.0	.
85+	All	2010	All	All	2,701	2,114	100,608	100,608	858,175.0	1,035,179	246.3	0.0	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD)	Members with SCD	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
					Codes	Codes	Table	Table	Member-Years	Members	Years	Deaths	Death Rate
85+	All	2011	All	All	2,683	2,121	104,299	104,299	914,880.0	1,127,971	231.8	0.0	.
85+	All	2012	All	All	1,960	1,597	95,213	95,213	988,689.8	1,198,443	161.5	0.0	.
85+	All	2013	All	All	1,672	1,354	99,358	99,358	1,029,227.2	1,246,878	131.6	0.0	.
85+	All	2014	All	All	1,570	1,286	101,293	101,293	1,058,731.3	1,285,229	121.5	0.0	.
85+	All	2015	All	All	1,290	1,058	102,147	102,147	1,047,270.7	1,282,193	101.0	0.0	.
85+	All	2016	All	All	988	835	97,306	97,306	1,055,949.6	1,265,551	79.1	0.0	.
85+	All	2017	All	All	414	321	36,982	36,982	400,695.5	1,102,829	80.1	0.0	.
All	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
All	F	2006	All	All	1,005	659	18,437	18,437	4,145,279.9	9,236,450	15.9	0.0	.
All	M	2006	All	All	1,759	1,186	17,381	17,381	3,940,724.9	8,829,141	30.1	0.1	.
All	F	2007	All	All	2,344	1,588	50,064	50,064	8,881,385.6	13,874,081	17.9	0.0	.
All	M	2007	All	All	4,176	2,765	44,432	44,432	8,415,816.8	12,609,314	32.9	0.1	.
All	F	2008	All	All	4,514	3,501	155,163	155,163	16,170,665.9	24,087,750	21.7	0.0	.
All	M	2008	All	All	7,497	5,676	129,728	129,728	14,796,419.7	22,470,476	38.4	0.0	.
All	F	2009	All	All	5,662	4,521	150,116	150,116	19,546,364.6	23,896,783	23.1	0.0	.
All	M	2009	All	All	9,556	7,561	135,755	135,755	18,173,892.1	22,504,829	41.6	0.1	.
All	F	2010	All	All	5,753	4,571	144,018	144,018	19,165,001.8	23,590,881	23.9	0.0	.
All	M	2010	All	All	9,404	7,347	129,212	129,212	17,830,636.6	22,188,914	41.2	0.1	.
All	F	2011	All	All	5,474	4,274	146,815	146,815	19,927,025.0	24,571,873	21.4	0.0	.
All	M	2011	All	All	9,315	7,243	132,535	132,535	18,642,301.0	23,245,170	38.9	0.1	.
All	F	2012	All	All	3,979	3,238	133,567	133,567	20,621,822.4	25,095,276	15.7	0.0	.
All	M	2012	All	All	6,254	5,000	116,521	116,521	19,339,631.7	23,781,572	25.9	0.0	.
All	F	2013	All	All	3,221	2,647	140,393	140,393	21,063,045.1	25,502,930	12.6	0.0	.
All	M	2013	All	All	5,296	4,242	122,485	122,485	19,791,347.2	24,147,152	21.4	0.0	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
All	F	2014	All	All	2,919	2,413	145,207	145,207	21,001,749.9	26,091,104	11.5	0.0	.
All	M	2014	All	All	4,717	3,796	128,253	128,253	19,848,167.2	24,826,215	19.1	0.0	.
All	F	2015	All	All	2,676	2,237	148,589	148,589	21,465,811.4	26,297,821	10.4	0.0	.
All	M	2015	All	All	4,401	3,575	133,482	133,482	20,333,626.1	25,106,858	17.6	0.0	.
All	F	2016	All	All	2,334	1,994	146,774	146,774	22,206,255.5	27,148,782	9.0	0.0	.
All	M	2016	All	All	3,467	2,974	134,502	134,502	21,084,319.3	26,002,037	14.1	0.0	.
All	F	2017	All	All	860	707	55,049	55,049	8,888,767.1	23,847,420	8.0	0.0	.
All	M	2017	All	All	1,410	1,165	50,319	50,319	8,486,756.0	22,773,417	13.7	0.0	.
<45	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
<45	F	2006	All	All	53	36	529	529	2,371,748.7	5,460,859	1.5	0.1	.
<45	M	2006	All	All	164	113	1,020	1,020	2,376,225.1	5,481,855	4.8	0.1	.
<45	F	2007	All	All	157	116	1,290	1,290	4,944,571.7	6,944,075	2.3	0.1	.
<45	M	2007	All	All	392	264	2,267	2,267	4,970,566.2	7,003,919	5.3	0.1	.
<45	F	2008	All	All	346	277	2,691	2,691	8,072,326.7	13,145,671	3.4	0.1	.
<45	M	2008	All	All	650	482	4,541	4,541	8,078,835.5	13,174,804	6.0	0.1	.
<45	F	2009	All	All	440	351	2,856	2,856	10,225,878.5	13,313,744	3.4	0.1	.
<45	M	2009	All	All	839	651	4,810	4,810	10,213,259.0	13,334,868	6.4	0.1	.
<45	F	2010	All	All	399	326	2,672	2,672	9,983,178.5	13,015,039	3.3	0.1	.
<45	M	2010	All	All	788	627	4,560	4,560	9,941,236.1	12,985,466	6.3	0.1	.
<45	F	2011	All	All	366	284	2,469	2,469	10,269,962.6	13,326,447	2.8	0.1	.
<45	M	2011	All	All	749	588	4,401	4,401	10,284,943.8	13,411,219	5.7	0.1	.
<45	F	2012	All	All	197	150	1,699	1,699	10,481,430.6	13,466,022	1.4	0.1	.
<45	M	2012	All	All	424	340	2,984	2,984	10,551,406.1	13,590,953	3.2	0.1	.
<45	F	2013	All	All	203	158	1,826	1,826	10,634,621.6	13,616,785	1.5	0.1	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
<45	M	2013	All	All	346	260	2,967	2,967	10,732,463.3	13,745,916	2.4	0.1	.
<45	F	2014	All	All	133	116	1,719	1,719	10,424,061.1	13,659,429	1.1	0.1	.
<45	M	2014	All	All	281	214	2,800	2,800	10,601,972.2	13,882,934	2.0	0.1	.
<45	F	2015	All	All	107	87	1,744	1,744	10,513,900.0	13,606,886	0.8	0.0	.
<45	M	2015	All	All	216	185	2,704	2,704	10,716,430.3	13,893,744	1.7	0.1	.
<45	F	2016	All	All	123	102	1,758	1,758	10,783,083.3	14,034,771	0.9	0.1	.
<45	M	2016	All	All	206	168	2,625	2,625	11,028,490.6	14,366,038	1.5	0.1	.
<45	F	2017	All	All	41	33	612	612	4,383,716.3	11,967,814	0.8	0.1	.
<45	M	2017	All	All	67	49	972	972	4,490,855.8	12,251,625	1.1	0.1	.
45-54	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
45-54	F	2006	All	All	97	64	854	854	729,588.4	1,663,943	8.8	0.1	.
45-54	M	2006	All	All	225	163	1,260	1,260	686,269.2	1,570,594	23.8	0.1	.
45-54	F	2007	All	All	175	131	2,091	2,091	1,541,777.1	2,206,942	8.5	0.1	.
45-54	M	2007	All	All	505	344	2,994	2,994	1,455,408.9	2,109,735	23.6	0.1	.
45-54	F	2008	All	All	342	257	4,612	4,612	2,552,609.4	4,052,806	10.1	0.1	.
45-54	M	2008	All	All	877	646	6,897	6,897	2,409,335.6	3,842,715	26.8	0.1	.
45-54	F	2009	All	All	454	369	5,062	5,062	3,195,760.8	4,148,514	11.5	0.1	.
45-54	M	2009	All	All	1,122	886	7,192	7,192	3,008,544.6	3,940,131	29.4	0.1	.
45-54	F	2010	All	All	529	410	4,613	4,613	3,154,587.0	4,117,406	13.0	0.1	.
45-54	M	2010	All	All	1,067	812	6,598	6,598	2,967,178.0	3,901,127	27.4	0.1	.
45-54	F	2011	All	All	426	326	4,233	4,233	3,210,115.2	4,171,962	10.2	0.1	.
45-54	M	2011	All	All	987	745	6,412	6,412	3,041,518.7	3,989,611	24.5	0.1	.
45-54	F	2012	All	All	236	198	3,245	3,245	3,209,759.2	4,145,650	6.2	0.1	.
45-54	M	2012	All	All	578	437	4,886	4,886	3,060,829.1	3,984,954	14.3	0.1	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
45-54	F	2013	All	All	204	161	3,414	3,414	3,211,918.8	4,137,960	5.0	0.0	.
45-54	M	2013	All	All	490	380	5,036	5,036	3,071,959.3	3,973,807	12.4	0.1	.
45-54	F	2014	All	All	193	149	3,458	3,458	3,118,457.7	4,142,614	4.8	0.0	.
45-54	M	2014	All	All	375	293	4,950	4,950	3,021,139.5	4,018,035	9.7	0.1	.
45-54	F	2015	All	All	150	122	3,342	3,342	3,153,784.3	4,137,772	3.9	0.0	.
45-54	M	2015	All	All	367	293	4,841	4,841	3,058,871.5	4,022,355	9.6	0.1	.
45-54	F	2016	All	All	133	109	3,321	3,321	3,227,928.1	4,242,130	3.4	0.0	.
45-54	M	2016	All	All	242	205	4,607	4,607	3,136,487.3	4,132,144	6.5	0.0	.
45-54	F	2017	All	All	57	48	1,224	1,224	1,303,154.5	3,549,217	3.7	0.0	.
45-54	M	2017	All	All	122	97	1,773	1,773	1,267,610.6	3,459,975	7.7	0.1	.
55-64	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
55-64	F	2006	All	All	167	106	1,765	1,765	536,700.1	1,200,502	19.8	0.1	.
55-64	M	2006	All	All	400	275	2,493	2,493	502,771.7	1,127,472	54.7	0.1	.
55-64	F	2007	All	All	301	213	3,968	3,968	1,161,590.7	1,678,053	18.3	0.1	.
55-64	M	2007	All	All	825	579	5,815	5,815	1,087,569.8	1,572,368	53.2	0.1	.
55-64	F	2008	All	All	620	479	9,499	9,499	1,972,242.2	3,013,819	24.3	0.1	.
55-64	M	2008	All	All	1,487	1,129	13,402	13,402	1,821,797.6	2,793,751	62.0	0.1	.
55-64	F	2009	All	All	812	645	10,186	10,186	2,490,431.6	3,136,413	25.9	0.1	.
55-64	M	2009	All	All	1,973	1,554	14,849	14,849	2,289,726.9	2,916,334	67.9	0.1	.
55-64	F	2010	All	All	824	644	9,653	9,653	2,553,674.5	3,254,415	25.2	0.1	.
55-64	M	2010	All	All	1,822	1,402	14,107	14,107	2,336,983.4	3,003,608	60.0	0.1	.
55-64	F	2011	All	All	713	556	9,733	9,733	2,709,113.7	3,423,769	20.5	0.1	.
55-64	M	2011	All	All	1,785	1,368	14,258	14,258	2,487,371.5	3,179,480	55.0	0.1	.
55-64	F	2012	All	All	545	434	7,672	7,672	2,777,980.7	3,506,829	15.6	0.1	.

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Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD)	Members with SCD	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
					Codes	Codes	Table	Table	Member-Years	Members	Years	Deaths	Death Rate
55-64	M	2012	All	All	1,117	876	11,204	11,204	2,564,838.3	3,274,679	34.2	0.1	.
55-64	F	2013	All	All	391	316	8,006	8,006	2,886,142.7	3,622,071	10.9	0.0	.
55-64	M	2013	All	All	919	734	11,765	11,765	2,671,477.0	3,370,166	27.5	0.1	.
55-64	F	2014	All	All	344	273	8,589	8,589	2,897,079.6	3,761,050	9.4	0.0	.
55-64	M	2014	All	All	825	650	12,484	12,484	2,720,147.9	3,540,104	23.9	0.1	.
55-64	F	2015	All	All	395	318	8,676	8,676	3,031,012.2	3,855,408	10.5	0.0	.
55-64	M	2015	All	All	788	617	12,838	12,838	2,849,559.1	3,634,813	21.7	0.0	.
55-64	F	2016	All	All	333	272	8,827	8,827	3,194,084.4	4,060,872	8.5	0.0	.
55-64	M	2016	All	All	590	505	12,921	12,921	3,000,866.5	3,835,153	16.8	0.0	.
55-64	F	2017	All	All	121	103	3,386	3,386	1,315,624.4	3,509,732	7.8	0.0	.
55-64	M	2017	All	All	258	216	4,841	4,841	1,239,927.5	3,315,736	17.4	0.0	.
65-74	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
65-74	F	2006	All	All	172	121	2,480	2,480	241,737.8	538,088	50.1	0.0	.
65-74	M	2006	All	All	412	271	3,370	3,370	218,335.7	489,736	124.1	0.1	.
65-74	F	2007	All	All	407	273	6,991	6,991	597,270.2	1,695,088	45.7	0.0	.
65-74	M	2007	All	All	920	585	8,823	8,823	528,572.4	1,366,498	110.7	0.1	.
65-74	F	2008	All	All	870	677	23,811	23,811	1,753,642.0	2,334,159	38.6	0.0	.
65-74	M	2008	All	All	1,745	1,343	28,866	28,866	1,448,288.1	1,973,737	92.7	0.0	.
65-74	F	2009	All	All	1,088	871	22,369	22,369	1,780,123.5	2,114,196	48.9	0.0	.
65-74	M	2009	All	All	2,142	1,699	28,650	28,650	1,527,965.4	1,840,658	111.2	0.1	.
65-74	F	2010	All	All	1,105	873	21,221	21,221	1,687,993.5	2,046,054	51.7	0.0	.
65-74	M	2010	All	All	2,096	1,662	26,525	26,525	1,465,858.6	1,802,988	113.4	0.1	.
65-74	F	2011	All	All	1,033	823	21,781	21,781	1,856,522.9	2,378,887	44.3	0.0	.
65-74	M	2011	All	All	2,213	1,716	27,682	27,682	1,619,281.9	2,086,334	106.0	0.1	.

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					Codes	Codes	Table	Table	Member-Years	Members	Years	Deaths	Death Rate
65-74	F	2012	All	All	910	759	21,573	21,573	2,141,739.5	2,646,897	35.4	0.0	.
65-74	M	2012	All	All	1,598	1,297	27,120	27,120	1,852,179.5	2,309,298	70.0	0.0	.
65-74	F	2013	All	All	737	604	23,858	23,858	2,264,201.1	2,745,599	26.7	0.0	.
65-74	M	2013	All	All	1,330	1,087	29,203	29,203	1,952,891.2	2,391,056	55.7	0.0	.
65-74	F	2014	All	All	650	550	25,937	25,937	2,435,712.2	3,061,371	22.6	0.0	.
65-74	M	2014	All	All	1,199	975	32,118	32,118	2,086,283.4	2,643,829	46.7	0.0	.
65-74	F	2015	All	All	687	589	28,247	28,247	2,630,182.7	3,249,260	22.4	0.0	.
65-74	M	2015	All	All	1,203	1,007	35,150	35,150	2,249,717.9	2,809,333	44.8	0.0	.
65-74	F	2016	All	All	585	523	29,939	29,939	2,812,848.4	3,382,438	18.6	0.0	.
65-74	M	2016	All	All	1,018	882	37,136	37,136	2,396,129.6	2,916,834	36.8	0.0	.
65-74	F	2017	All	All	204	171	10,863	10,863	1,058,045.4	2,976,923	16.2	0.0	.
65-74	M	2017	All	All	388	323	13,664	13,664	907,051.6	2,546,699	35.6	0.0	.
75-84	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
75-84	F	2006	All	All	262	162	5,211	5,211	174,129.5	378,671	93.0	0.0	.
75-84	M	2006	All	All	360	237	5,219	5,219	120,694.8	264,256	196.4	0.0	.
75-84	F	2007	All	All	711	455	14,243	14,243	420,968.1	1,212,571	108.1	0.0	.
75-84	M	2007	All	All	1,067	682	13,621	13,621	287,243.1	739,316	237.4	0.1	.
75-84	F	2008	All	All	1,205	937	46,396	46,396	1,241,739.7	1,623,410	75.5	0.0	.
75-84	M	2008	All	All	1,870	1,396	41,491	41,491	801,349.7	1,084,358	174.2	0.0	.
75-84	F	2009	All	All	1,559	1,233	44,791	44,791	1,257,873.6	1,471,072	98.0	0.0	.
75-84	M	2009	All	All	2,280	1,806	43,278	43,278	865,489.0	1,025,970	208.7	0.0	.
75-84	F	2010	All	All	1,529	1,242	42,080	42,080	1,198,001.9	1,414,000	103.7	0.0	.
75-84	M	2010	All	All	2,297	1,806	40,593	40,593	847,372.9	1,013,589	213.1	0.0	.
75-84	F	2011	All	All	1,543	1,193	42,042	42,042	1,260,150.0	1,529,048	94.7	0.0	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
75-84	M	2011	All	All	2,291	1,797	42,040	42,040	914,290.2	1,121,377	196.5	0.0	.
75-84	F	2012	All	All	1,061	860	37,626	37,626	1,344,101.5	1,596,607	64.0	0.0	.
75-84	M	2012	All	All	1,607	1,290	36,866	36,866	987,511.3	1,185,674	130.6	0.0	.
75-84	F	2013	All	All	870	735	39,151	39,151	1,375,502.0	1,631,275	53.4	0.0	.
75-84	M	2013	All	All	1,355	1,100	38,294	38,294	1,023,152.2	1,224,894	107.5	0.0	.
75-84	F	2014	All	All	797	659	40,169	40,169	1,419,162.9	1,706,706	46.4	0.0	.
75-84	M	2014	All	All	1,269	1,044	39,943	39,943	1,066,674.0	1,297,961	97.9	0.0	.
75-84	F	2015	All	All	686	581	40,884	40,884	1,441,481.0	1,730,757	40.3	0.0	.
75-84	M	2015	All	All	1,188	955	41,498	41,498	1,106,917.7	1,340,393	86.3	0.0	.
75-84	F	2016	All	All	646	555	40,733	40,733	1,491,798.6	1,755,879	37.2	0.0	.
75-84	M	2016	All	All	937	812	42,103	42,103	1,162,732.7	1,377,563	69.8	0.0	.
75-84	F	2017	All	All	226	196	15,288	15,288	564,790.5	1,566,304	34.7	0.0	.
75-84	M	2017	All	All	372	315	15,763	15,763	444,031.7	1,231,925	70.9	0.0	.
85+	F	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2000	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2001	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2002	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2003	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2004	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	M	2005	All	All	0	0	0	0	0.0	0	0.0	0.0	.
85+	F	2006	All	All	254	170	7,598	7,598	90,896.0	198,659	187.0	0.0	.
85+	M	2006	All	All	198	127	4,019	4,019	35,775.4	79,974	355.0	0.0	.
85+	F	2007	All	All	593	400	21,481	21,481	214,306.7	580,606	186.6	0.0	.
85+	M	2007	All	All	467	311	10,912	10,912	85,247.5	218,993	364.8	0.0	.
85+	F	2008	All	All	1,131	874	68,154	68,154	577,262.0	763,162	151.4	0.0	.
85+	M	2008	All	All	868	680	34,531	34,531	235,701.2	333,685	288.5	0.0	.
85+	F	2009	All	All	1,309	1,052	64,852	64,852	595,591.0	709,022	176.6	0.0	.
85+	M	2009	All	All	1,200	965	36,976	36,976	267,966.2	330,010	360.1	0.0	.
85+	F	2010	All	All	1,367	1,076	63,779	63,779	586,975.3	700,625	183.3	0.0	.
85+	M	2010	All	All	1,334	1,038	36,829	36,829	271,199.7	334,554	382.7	0.0	.

Table 7. Crude and Age-Adjusted Rates of Sudden Cardiac Death (SCD) in the Sentinel Distributed Database (SDD) from January 1, 2000 to January 17, 2018, First Algorithm

Age Category (Years)	Sex	Year	Race	Hispanic	Sudden Cardiac Death (SCD) Codes	Members with SCD Codes	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
85+	F	2011	All	All	1,393	1,092	66,557	66,557	620,676.4	757,785	175.9	0.0	.
85+	M	2011	All	All	1,290	1,029	37,742	37,742	294,203.7	370,186	349.8	0.0	.
85+	F	2012	All	All	1,030	837	61,752	61,752	666,402.8	799,987	125.6	0.0	.
85+	M	2012	All	All	930	760	33,461	33,461	322,287.0	398,456	235.8	0.0	.
85+	F	2013	All	All	816	673	64,138	64,138	690,290.0	829,329	97.5	0.0	.
85+	M	2013	All	All	856	681	35,220	35,220	338,937.1	417,549	200.9	0.0	.
85+	F	2014	All	All	802	666	65,335	65,335	707,049.2	850,270	94.2	0.0	.
85+	M	2014	All	All	768	620	35,958	35,958	351,682.0	434,959	176.3	0.0	.
85+	F	2015	All	All	651	540	65,696	65,696	695,311.3	843,783	77.7	0.0	.
85+	M	2015	All	All	639	518	36,451	36,451	351,959.4	438,410	147.2	0.0	.
85+	F	2016	All	All	514	433	62,196	62,196	696,426.2	828,286	62.2	0.0	.
85+	M	2016	All	All	474	402	35,110	35,110	359,523.4	437,265	111.8	0.0	.
85+	F	2017	All	All	211	156	23,676	23,676	263,425.7	722,729	59.2	0.0	.
85+	M	2017	All	All	203	165	13,306	13,306	137,269.8	380,100	120.2	0.0	.
All	All	All	American Indian/Alaskan Native	All	68	66	7,693	7,693	173,255.5	63,303	38.1	0.0	.
All	All	All	Asian	All	177	172	19,635	19,635	635,651.5	253,613	27.1	0.0	.
All	All	All	Black/African American	All	4,892	4,707	156,398	156,398	4,008,828.5	1,425,842	117.4	0.0	.
All	All	All	Native Hawaiian/Pacific Islander	All	242	231	14,326	14,326	537,389.3	188,292	43.0	0.0	.
All	All	All	Unknown	All	80,968	59,333	1,049,957	1,049,957	352,491,565.1	114,674,600	16.8	0.1	.
All	All	All	White	All	21,646	20,371	1,460,788	1,460,788	35,920,123.0	10,656,617	56.7	0.0	.
All	All	All	All	No	27,025	25,547	1,658,841	1,658,841	41,275,279.1	12,587,672	61.9	0.0	.
All	All	All	All	Unknown	80,613	59,001	1,016,919	1,016,919	351,576,768.0	114,311,713	16.8	0.1	.
All	All	All	All	Yes	355	332	33,037	33,037	914,765.8	362,882	36.3	0.0	.

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

DP ID	DP Start Date¹	DP End Date¹
DP001	1/1/2006	7/31/2017
DP002	1/1/2008	3/31/2017
DP003	6/1/2007	4/30/2017

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
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

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
410.52	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
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

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
I25.719	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
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

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
I25.731	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
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

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
I25.2	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