

Supplemental Material

Table S1. Absolute Number of Aortic Dissection Deaths Stratified by Sex and Race/Ethnicity in the United States, 1999-2019.

Year	Overall	Women	Men	NH White	NH Black or African American	NH Others	Hispanics or Latino
1999	3745	1553	2192	3014	487	92	143
2000	3844	1590	2254	3035	495	126	171
2001	3749	1546	2203	2960	476	146	150
2002	3772	1532	2240	2970	521	102	164
2003	3964	1589	2375	3085	567	125	175
2004	3721	1556	2165	2864	547	122	182
2005	3868	1554	2314	2927	593	154	184
2006	3957	1631	2326	2963	633	138	211
2007	3960	1628	2332	2939	654	166	197
2008	3780	1580	2200	2853	581	156	180
2009	3940	1635	2305	2892	621	168	250
2010	3891	1541	2350	2861	606	173	235
2011	3895	1545	2350	2849	631	173	231
2012	3920	1552	2368	2906	580	196	221
2013	4067	1705	2362	2956	686	180	235
2014	4371	1768	2603	3159	735	212	249
2015	4442	1861	2581	3217	711	211	289
2016	4608	1889	2719	3319	770	207	295
2017	4854	2064	2790	3473	807	274	283
2018	5126	2178	2948	3618	860	257	369
2019	5381	2267	3114	3755	950	279	379
Total	86855	35764	51091	64615	13511	3657	4793

Table S2. Trends in Aortic Dissection Mortality Stratified by Location of Death in the United States, 1999-2019.

Year	Medical Facility	Nursing home/Long Term Care	Hospice	Home
1999	3193	104	Missing	372
2000	3276	125	Missing	368
2001	3137	124	Missing	396
2002	3169	89	Missing	425
2003	3266	89	2	465
2004	3028	113	0	465
2005	3157	124	15	448
2006	3184	112	21	515
2007	3172	120	34	484
2008	2992	133	34	444
2009	3063	114	48	514
2010	3041	95	57	554
2011	3016	98	67	553
2012	3005	107	92	585
2013	3127	116	83	559
2014	3342	116	117	628
2015	3317	136	129	710
2016	3481	103	135	725
2017	3646	112	139	786
2018	3874	99	152	801
2019	3983	144	160	879
Total	68469	2373	1285	11676

Table S3. Overall and Sex-Stratified Aortic Dissection Age-Adjusted Mortality Rates per 1,000,000 in the United States, 1999 to 2019.

Year	Overall	Male	Female
1999	21.11	28.56	15.14
2000	21.42	28.96	15.24
2001	20.53	27.79	14.57
2002	20.3	27.39	14.33
2003	20.98	28.48	14.67
2004	19.44	25.57	14.13
2005	19.77	26.47	13.85
2006	19.86	25.98	14.32
2007	19.51	25.55	14.11
2008	18.28	23.61	13.38
2009	18.85	24.33	13.78
2010	18.29	24.41	12.7
2011	17.8	23.62	12.49
2012	17.68	23.5	12.37
2013	18	23	13.35
2014	18.83	24.59	13.38
2015	18.88	24.04	13.88
2016	19.36	25.01	13.97
2017	19.86	25.02	14.76
2018	20.61	25.9	15.38
2019	21.37	27.21	15.78
Total	19.47	25.42	14.04

Table S4. Aortic dissection age-adjusted mortality rates per 1,000,000 stratified by race in the United States, 1999 to 2019.

Year	NH White	NH Black or African-American	NH Others	Hispanic or Latino
1999	20.75	28.77	17.11	13.44
2000	20.73	29.11	22.65	15.76
2001	20.01	26.86	25.01	12.27
2002	19.84	28.44	15.99	13.15
2003	20.37	30	18.31	13.31
2004	18.8	28.83	16.85	12.02
2005	18.88	30.14	20.95	12.08
2006	18.91	31.65	17.91	12.83
2007	18.54	31.08	19.61	11.98
2008	17.75	27.25	18.21	10.49
2009	17.88	28.76	18.38	13.62
2010	17.46	27.27	18.46	11.78
2011	17.01	27.75	17.42	11.01
2012	17.3	25.08	17.88	10.12
2013	17.33	28.59	15.4	10.69
2014	18.07	30.13	17.14	10.75
2015	18.29	28.69	16.32	11.89
2016	18.82	30.41	15.85	11.56
2017	19.23	31.11	19.39	10.53
2018	19.85	32.84	17.37	13.11
2019	20.33	35.79	18.07	13.61
Total	18.78	29.45	17.98	12.01

Table S5. Aortic dissection crude mortality rates per 1,000,000 stratified by age groups in the United States, 1999 to 2019.

Year	Age 25-39	Age 40-54	Age 55-69	Age 70-84	Age 85+
1999	3.23	10.65	29.29	70.85	106.88
2000	2.75	10.86	29.49	71.64	118.41
2001	3.32	10.08	27.17	68.27	118.96
2002	2.82	10.75	27.98	67.67	103.23
2003	3.32	11.96	26.8	69.18	110.83
2004	3.51	10.72	23.49	64.26	111.31
2005	3.15	11.76	25.1	62.74	111.86
2006	3.27	12.59	24.6	61.39	113.85
2007	3.61	12.19	24.9	58.31	112.91
2008	3.54	11.03	23.17	55.12	108.93
2009	3.51	12.3	22.97	57.08	104.15
2010	3.64	11.72	22.63	53.18	109.4
2011	3.24	11.45	23.4	49.86	107.2
2012	3.54	12.19	21.36	50.21	104.12
2013	3.75	11.51	22.07	50.84	111.91
2014	3.36	12.35	25.2	51.91	111.32
2015	3.8	12.14	24.57	50.66	117.86
2016	3.94	13.54	24.19	51.68	117.24
2017	3.85	13.38	25.51	51.17	132.48
2018	3.85	13.63	26.77	53.99	135.53
2019	4.06	14.82	27.61	55.2	135.5
Total	3.49	11.98	24.97	57.85	115.22

Table S6. Aortic dissection age-adjusted mortality rates per 1,000,000 stratified by Urban-Rural classification in the United States, 1999 to 2019.

Year	Large Metropolitan	Medium/Small Metropolitan	Rural
1999	21.41	21.12	20.32
2000	21.85	22.19	18.83
2001	20.84	20.86	19.03
2002	20.48	20.62	19.01
2003	21.24	20.45	20.9
2004	19.49	20.16	17.9
2005	20.12	19.91	18.4
2006	19.51	20.5	19.77
2007	19.67	19.61	18.94
2008	18.36	18.74	17.31
2009	19.01	18.91	18.01
2010	18.01	19.34	16.93
2011	17.67	18.48	16.87
2012	18.03	17.57	16.82
2013	17.9	18.12	17.98
2014	18.55	20.05	17.47
2015	18.49	19.59	19
2016	18.82	20.41	19.17
2017	19.93	19.83	19.69
2018	19.89	21.63	21.15
2019	21.15	21.9	21.17
Total	19.45	19.9	18.71

Table S7. State-level Aortic Dissection age-adjusted mortality rates per 1,000,000 people in the United States, 1999 to 2019.

State	Rank	Percentile	Age-adjusted mortality rate per 1,000,000
Massachusetts	1	0	14.37
Mississippi	2	2	15.58
Virginia	3	4	15.91
Kentucky	4	6	16.05
New Jersey	5	8	16.55
Connecticut	6	10	16.59
Maine	7	12	16.61
Idaho	8	14	16.97
New Hampshire	9	16	17.1
South Dakota	10	18	17.34
Arkansas	11	20	17.46
Texas	12	22	17.73
Louisiana	13	24	17.94
West Virginia	14	26	18.19
Florida	15	28	18.22
Rhode Island	16	30	18.38
New Mexico	17	32	18.56
Alabama	18	34	18.78
New York	19	36	18.84
North Carolina	20	38	18.88
North Dakota	21	40	19
Missouri	22	42	19.24
Illinois	23	44	19.27
Arizona	24	46	19.32
Nebraska	25	48	19.43
Pennsylvania	26	50	19.46
Maryland	27	52	19.67
Wisconsin	27	52	19.67
Tennessee	29	56	19.82
Georgia	30	58	19.89
Oklahoma	31	60	20.26
Colorado	32	62	20.55
Iowa	33	64	20.69
California	33	64	20.69
Montana	35	68	20.74
Minnesota	36	70	21.09

Vermont	37	72	21.11
Indiana	38	74	21.34
Utah	39	76	21.38
Oregon	40	78	21.48
Alaska	41	80	21.54
Wyoming	42	82	21.68
Nevada	43	84	21.93
Ohio	44	86	22
South Carolina	45	88	22.01
Washington	46	90	22.33
Kansas	47	92	22.71
Delaware	48	94	23.87
Michigan	49	96	23.94
Hawaii	50	98	30.8
District of Columbia	51	100	30.9
