

Dyslipidemia and stroke-related mortality in the United States: a nationwide analysis for 2010-2020

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Supplementary Table 1. Dyslipidemia and Stroke-Related Deaths, Stratified by Sex and Race, in Adults in the United States, 2010 to 2020.

	Deaths								
Year	Overall	Women	Men	NH White	NH Black or African American	NH Asian or Pacific Islander	NH American Indian or Alaska Native	Hispanic or Latino	Population
2010	7,339	4,108	3,231	5,872	725	250	25	459	203,891,983
2011	7,925	4,444	3,481	6,316	798	303	37	465	206,592,936
2012	8,400	4,720	3,680	6,723	892	296	29	447	208,826,037
2013	8,592	4,734	3,858	6,855	890	292	48	493	211,085,314
2014	8,771	4,871	3,900	6,973	917	289	41	532	213,809,280
2015	9,024	4,934	4,090	7,035	980	367	52	557	216,553,817
2016	9,461	5,058	4,403	7,407	1,041	337	55	603	218,641,417
2017	10,105	5,402	4,703	7,824	1,175	383	48	655	221,447,331
2018	10,834	5,738	5,096	8,419	1,239	436	55	657	223,311,190
2019	11,515	6,033	5,482	8,873	1,333	422	68	804	224,981,167
2020	14,847	7,769	7,078	11,005	1,958	645	93	1,120	226,635,013
Total	106,813	57,811	49,002	83,302	11,948	4,020	551	6,792	2,375,775,485

NH = Non-Hispanic

Supplementary Table 2. Dyslipidemia and Stroke-Related Mortality, Stratified by Place of Death in Adults in the United States, 2010 to 2020.

	Deaths			
Year	Medical Facility	Nursing Home/Long-term Care Facility	Hospices	Home
2010	2,966	2,034	225	1,820
2011	3,097	2,249	264	1,987
2012	3,229	2,251	346	2,199
2013	3,166	2,427	372	2,221
2014	3,243	2,398	444	2,369
2015	3,218	2,551	445	2,461
2016	3,321	2,594	519	2,646
2017	3,586	2,763	578	2,777
2018	3,736	2,897	749	3,003
2019	3,864	3,003	899	3,315
2020	4,832	3,599	982	4,740
Total	38,258	28,766	5,823	29,538

Supplementary Table 3. Annual Percent Change (APC) Dyslipidemia and Stroke-Related Age-Adjusted Mortality Rates per 100,000 in Adults in the United States, 2010 to 2020.

Year Interval	APC (95% CI)
Overall	
2010-2018	1.6 (-0.4 to 2.7)
2018-2020	15.1 (7.5 to 19.5)
Men	
2010-2018	2.2 (0.9 to 3.1)
2018-2020	15.9 (10.5 to 19.6)
Women	
2010-2018	1.2 (-1.3 to 2.4)
2018-2020	15.2 (6.6 to 20.3)
NH White	
2010-2018	1.9 (-0.1 to 3)
2018-2020	13.7 (6.7 to 17.9)
NH American Indian or Alaska Native	
2010-2020	4.9 (-0.5 to 11.8)
Hispanic or Latino	
2010-2018	-0.6 (-3.3 to 1.3)
2018-2020	25.8 (14.2 to 33.3)
NH Asian or Pacific Islander	
2010-2018	-1.4 (-12.3 to 2.1)
2018-2020	17.9 (1.8 to 30.2)
NH Black or African American	
2010-2018	2.3 (-2.2 to 4.4)
2018-2020	21.8 (9.2 to 29.8)
Nonmetropolitan area	
2010-2017	2 (0.2 to 3.1)
2017-2020	11.2 (7.9 to 16.7)
Metropolitan area	
2010-2018	1.4 (-0.8 to 2.5)
2018-2020	15.4 (7 to 20.2)

NH = Non-Hispanic, APC = Annual Percent Change

Supplementary Table 4. Overall and Sex Stratified Age-Adjusted Mortality Rates per 100,000 in Adults in the United States, 2010 to 2020.

	Age-Adjusted Rate (95% CI)		
Year	Men	Women	Overall
2010	3.76 (3.63 to 3.89)	3.18 (3.08 to 3.28)	3.47 (3.39 to 3.55)
2011	3.88 (3.75 to 4.01)	3.33 (3.23 to 3.43)	3.62 (3.54 to 3.7)
2012	4.01 (3.88 to 4.14)	3.5 (3.39 to 3.6)	3.74 (3.66 to 3.82)
2013	4.09 (3.96 to 4.22)	3.4 (3.3 to 3.5)	3.72 (3.64 to 3.8)
2014	3.98 (3.85 to 4.11)	3.45 (3.35 to 3.55)	3.73 (3.65 to 3.81)
2015	4.08 (3.95 to 4.21)	3.41 (3.31 to 3.51)	3.75 (3.68 to 3.83)
2016	4.27 (4.15 to 4.4)	3.45 (3.35 to 3.54)	3.83 (3.76 to 3.91)
2017	4.43 (4.3 to 4.56)	3.6 (3.5 to 3.69)	3.98 (3.9 to 4.06)
2018	4.67 (4.54 to 4.8)	3.74 (3.65 to 3.84)	4.18 (4.1 to 4.26)
2019	4.89 (4.76 to 5.02)	3.88 (3.78 to 3.97)	4.35 (4.27 to 4.43)
2020	6.11 (5.96 to 6.25)	4.92 (4.81 to 5.04)	5.47 (5.38 to 5.56)

Supplementary Table 5. Dyslipidemia and Stroke-Related Age-Adjusted Mortality Rates per 100,000, Stratified by Race in Adults in the United States, 2010 to 2020.

	Age-Adjusted Rate (95% CI)				
Year	NH White	NH Black or African American	NH American Indian or Alaska Native	Hispanic or Latino	NH Asian or Pacific Islander
2010	3.39 (3.31 to 3.48)	3.96 (3.66 to 4.25)	2.45 (1.53 to 3.7)	3.25 (2.95 to 3.56)	3.64 (3.19 to 4.1)
2011	3.56 (3.47 to 3.65)	4.29 (3.98 to 4.59)	3.65 (2.51 to 5.12)	3.1 (2.81 to 3.39)	3.89 (3.45 to 4.34)
2012	3.73 (3.64 to 3.82)	4.53 (4.23 to 4.84)	2.62 (1.73 to 3.81)	2.81 (2.54 to 3.08)	3.57 (3.16 to 3.98)
2013	3.72 (3.63 to 3.81)	4.45 (4.15 to 4.75)	4.22 (3.06 to 5.66)	2.93 (2.66 to 3.19)	3.31 (2.93 to 3.7)
2014	3.71 (3.62 to 3.8)	4.32 (4.04 to 4.61)	3.6 (2.55 to 4.95)	3.02 (2.76 to 3.28)	3.09 (2.72 to 3.45)
2015	3.7 (3.61 to 3.79)	4.51 (4.22 to 4.8)	4.11 (3.04 to 5.43)	2.89 (2.64 to 3.13)	3.62 (3.25 to 4)
2016	3.84 (3.75 to 3.92)	4.63 (4.35 to 4.92)	4.23 (3.16 to 5.55)	2.94 (2.7 to 3.18)	3.19 (2.85 to 3.54)
2017	3.97 (3.88 to 4.06)	5.03 (4.73 to 5.33)	3.34 (2.43 to 4.48)	3.08 (2.84 to 3.32)	3.35 (3.01 to 3.69)
2018	4.21 (4.12 to 4.3)	5.13 (4.84 to 5.42)	3.6 (2.68 to 4.74)	2.98 (2.74 to 3.21)	3.61 (3.27 to 3.95)
2019	4.35 (4.26 to 4.44)	5.41 (5.12 to 5.71)	4.3 (3.31 to 5.49)	3.49 (3.24 to 3.73)	3.3 (2.98 to 3.62)
2020	5.31 (5.21 to 5.41)	7.58 (7.23 to 7.92)	5.5 (4.41 to 6.79)	4.7 (4.42 to 4.98)	4.78 (4.41 to 5.15)

NH = Non-Hispanic

Supplementary Table 6. Dyslipidemia and Stroke-Related Age-Adjusted Mortality Rates per 100,000, Stratified by States in Adults in the United States, 2010 to 2020

State	Age-Adjusted Rate (95% CI)
Alabama	2.53 (2.37 to 2.69)
Alaska	3.16 (2.55 to 3.77)
Arizona	2.62 (2.49 to 2.75)
Arkansas	3.67 (3.44 to 3.91)
California	4.96 (4.88 to 5.05)
Colorado	3.64 (3.45 to 3.84)
Connecticut	2.31 (2.15 to 2.48)
Delaware	4.02 (3.59 to 4.44)
District of Columbia	3.17 (2.65 to 3.69)
Florida	2.41 (2.34 to 2.48)
Georgia	1.99 (1.89 to 2.1)
Hawaii	5.15 (4.77 to 5.54)
Idaho	4.45 (4.08 to 4.82)
Illinois	2.52 (2.43 to 2.62)
Indiana	4.9 (4.71 to 5.09)
Iowa	6.03 (5.75 to 6.31)
Kansas	2.94 (2.72 to 3.16)
Kentucky	4.67 (4.45 to 4.9)
Louisiana	3.75 (3.55 to 3.96)
Maine	4.02 (3.68 to 4.36)
Maryland	5.18 (4.97 to 5.39)
Massachusetts	2.31 (2.19 to 2.43)
Michigan	2.49 (2.39 to 2.6)
Minnesota	6.34 (6.11 to 6.57)
Mississippi	3.58 (3.33 to 3.82)
Missouri	3.46 (3.3 to 3.62)
Montana	4.99 (4.54 to 5.44)
Nebraska	6.78 (6.38 to 7.19)
Nevada	2.08 (1.88 to 2.28)
New Hampshire	4 (3.64 to 4.36)
New Jersey	4.42 (4.27 to 4.57)
New Mexico	2.05 (1.84 to 2.26)
New York	2.66 (2.59 to 2.74)
North Carolina	4.34 (4.19 to 4.48)
North Dakota	5.96 (5.36 to 6.57)
Ohio	5.44 (5.3 to 5.59)
Oklahoma	5.32 (5.06 to 5.58)
Oregon	6.72 (6.45 to 6.99)
Pennsylvania	4.12 (4.01 to 4.23)
Rhode Island	5.09 (4.64 to 5.53)

South Carolina	5.22 (5 to 5.45)
South Dakota	5.73 (5.2 to 6.26)
Tennessee	4.96 (4.77 to 5.15)
Texas	5.11 (5 to 5.22)
Utah	2.51 (2.27 to 2.75)
Vermont	10.15 (9.33 to 10.96)
Virginia	3.39 (3.25 to 3.53)
Washington	6.31 (6.1 to 6.52)
West Virginia	5.85 (5.49 to 6.21)
Wisconsin	4.31 (4.13 to 4.5)
Wyoming	5.7 (4.99 to 6.4)

Supplementary Table 7. Dyslipidemia and Stroke-Related Age-Adjusted Mortality Rates per 100,000, Stratified by Census Regions in Adults in the United States, 2010 to 2020

Census Region	Year	Age-Adjusted Rate (95% CI)
Northeast	2010	2.7 (2.54 to 2.86)
Northeast	2011	2.94 (2.77 to 3.1)
Northeast	2012	3 (2.84 to 3.16)
Northeast	2013	3.13 (2.97 to 3.29)
Northeast	2014	3.21 (3.04 to 3.37)
Northeast	2015	3.19 (3.02 to 3.35)
Northeast	2016	3.25 (3.08 to 3.41)
Northeast	2017	3.49 (3.32 to 3.65)
Northeast	2018	3.57 (3.4 to 3.74)
Northeast	2019	3.93 (3.75 to 4.1)
Northeast	2020	5.03 (4.83 to 5.22)
Northeast	Total	3.43 (3.38 to 3.48)
Midwest	2010	3.53 (3.36 to 3.7)
Midwest	2011	3.9 (3.73 to 4.08)
Midwest	2012	3.96 (3.78 to 4.13)
Midwest	2013	3.84 (3.67 to 4.01)
Midwest	2014	3.89 (3.72 to 4.06)
Midwest	2015	4 (3.83 to 4.17)
Midwest	2016	4.22 (4.05 to 4.4)
Midwest	2017	4.21 (4.04 to 4.39)
Midwest	2018	4.48 (4.3 to 4.66)
Midwest	2019	4.44 (4.27 to 4.61)
Midwest	2020	5.5 (5.31 to 5.69)
Midwest	Total	4.23 (4.17 to 4.28)
South	2010	3.28 (3.15 to 3.41)
South	2011	3.32 (3.19 to 3.45)
South	2012	3.52 (3.39 to 3.65)
South	2013	3.49 (3.37 to 3.62)
South	2014	3.44 (3.31 to 3.56)
South	2015	3.47 (3.35 to 3.6)
South	2016	3.48 (3.35 to 3.6)
South	2017	3.74 (3.61 to 3.86)
South	2018	4.09 (3.96 to 4.22)
South	2019	4.4 (4.27 to 4.54)
South	2020	5.53 (5.39 to 5.68)
South	Total	3.84 (3.8 to 3.87)
West	2010	4.34 (4.15 to 4.54)
West	2011	4.43 (4.24 to 4.62)

West	2012	4.5 (4.31 to 4.69)
West	2013	4.5 (4.31 to 4.68)
West	2014	4.38 (4.2 to 4.57)
West	2015	4.42 (4.24 to 4.6)
West	2016	4.49 (4.31 to 4.67)
West	2017	4.57 (4.39 to 4.75)
West	2018	4.52 (4.35 to 4.7)
West	2019	4.48 (4.31 to 4.66)
West	2020	5.72 (5.52 to 5.91)
West	Total	4.61 (4.55 to 4.66)
Total	Total	4.01 (3.99 to 4.04)

Supplementary Table 8. Dyslipidemia and Stroke-Related Age-Adjusted Mortality Rates per 100,000, Stratified by Urban-Rural Classification in Adults in the United States, 2010 to 2020

	Age-Adjusted Rate (95% CI)	
Year	Metropolitan	Nonmetropolitan
2010	3.34 (3.25 to 3.43)	3.97 (3.77 to 4.17)
2011	3.51 (3.42 to 3.59)	4.22 (4.02 to 4.42)
2012	3.63 (3.55 to 3.72)	4.24 (4.04 to 4.45)
2013	3.55 (3.47 to 3.64)	4.57 (4.36 to 4.78)
2014	3.57 (3.48 to 3.65)	4.43 (4.22 to 4.63)
2015	3.6 (3.51 to 3.68)	4.45 (4.25 to 4.66)
2016	3.66 (3.57 to 3.74)	4.63 (4.42 to 4.84)
2017	3.84 (3.76 to 3.93)	4.7 (4.49 to 4.91)
2018	3.95 (3.87 to 4.04)	5.3 (5.08 to 5.52)
2019	4.09 (4.01 to 4.18)	5.59 (5.37 to 5.81)
2020	5.25 (5.15 to 5.34)	6.61 (6.37 to 6.85)