

Supplemental Table SI. IHD and cancer-related deaths, Stratified by Sex and Race in the United States, 1999 to 2023

	Deaths						
Year	Overall	Female	Male	NH Black or African American	NH White	Hispanic or Latino	NH Others
1999	1826	994	832	381	1345	58	39
2000	1747	961	786	329	1315	63	37
2001	1861	985	876	341	1412	64	41
2002	1926	1013	913	371	1448	60	38
2003	2056	1097	959	409	1518	71	53
2004	2025	1047	978	359	1533	74	54
2005	2132	1111	1021	405	1578	89	55
2006	2118	1093	1025	397	1575	88	57
2007	2107	1080	1027	398	1580	87	41
2008	2153	1130	1023	425	1586	81	56
2009	2195	1120	1075	390	1647	99	55
2010	2270	1145	1125	401	1688	107	67
2011	2295	1151	1144	408	1704	104	76
2012	2359	1153	1206	431	1730	119	72
2013	2399	1113	1286	451	1753	124	65
2014	2398	1132	1266	436	1762	123	65
2015	2575	1277	1298	431	1909	137	84

2016	2736	1273	1463	516	1934	172	108
2017	2882	1369	1513	513	2074	191	94
2018	3141	1453	1688	523	2335	180	89
2019	3325	1546	1779	564	2452	209	95
2020	3951	1841	2110	710	2845	241	141
2021	4097	1893	2204	681	3025	225	134
2022	4492	2142	2350	737	3295	286	152
2023	4626	2089	2537	748	3379	289	165

Supplemental Table SII. Annual percent change (APC) of IHD and cancer-related age-adjusted mortality rates per 100,000 in the United States, 1999 to 2023

Year Interval	APC (95% CI)
Overall	
1999–2016	0.06 (-0.33 to 0.41)
2016–2023	7.70* (6.55 to 9.15)
Male	
1999–2016	0.18 (-0.31 to 0.61)
2016–2023	7.54* (6.29 to 9.33)
Female	
1999–2005:	0.85 (-1.12 to 5.54)
2005–2014:	-1.43 (-5.24 to 2.15)
2014–2018	4.09 (-1.52 to 6.10)
2018–2021	11.09 (4.96 to 13.41)
2021–2023	1.59 (-2.20 to 6.82)
NH Black or African American	
1999–2015	-1.46* (-2.33 to -0.77)
2015–2023	4.34* (2.75 to 6.82)
NH White	
1999–2016	0.31 (-0.10 to 0.66)
2016–2023	8.35* (7.07 to 9.96)
Hispanic or Latino	

1999–2014	-0.36 (-2.04 to 0.72)
2014–2023	4.90* (3.44 to 7.45)
NH Others	
1999–2018	-1.39* (-4.37 to -0.06)
2018–2023	8.42* (2.32 to 22.91)
Northeast	
1999–2017	0.96* (0.04 to 1.53)
2017–2023	6.46* (4.17 to 12.17)
Midwest	
1999–2016	-0.49 (-1.17 to 0.13)
2016–2023	7.43* (5.61 to 10.09)
South	
1999–2016	0.11 (-0.53 to 0.65)
2016–2021	11.49* (0.03 to 16.64)
2021–2023	3.54 (-0.33 to 9.29)
West	
1999–2017:	-0.19 (-0.65 to 0.04)
2017–2023	5.79* (3.82 to 9.22)
Urban	
1999–2015:	-0.23 (-0.77 to 0.29)
2015–2020	5.34* (3.38 to 9.31)
Rural	
1999–2015:	0.16 (-0.69 to 0.87)

2015–2020	9.43* (6.35 to 16.66)
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Supplemental Table SIII. Overall and Sex-Stratified IHD and cancer-related Age-Adjusted Mortality Rates per 100,000 in the United States, 1999 to 2023

	Age-Adjusted Rate (95% CI)		
Year	Male	Female	Overall
1999	1.29 (1.2 - 1.38)	0.88 (0.83 - 0.94)	1.03 (0.99 - 1.08)
2000	1.19 (1.1 - 1.27)	0.85 (0.79 - 0.9)	0.97 (0.92 - 1.01)
2001	1.29 (1.2 - 1.38)	0.87 (0.81 - 0.92)	1.02 (0.98 - 1.07)
2002	1.33 (1.24 - 1.42)	0.88 (0.82 - 0.93)	1.04 (0.99 - 1.08)
2003	1.34 (1.25 - 1.43)	0.92 (0.87 - 0.98)	1.09 (1.04 - 1.13)
2004	1.36 (1.27 - 1.45)	0.88 (0.83 - 0.94)	1.05 (1.01 - 1.1)
2005	1.39 (1.3 - 1.47)	0.92 (0.86 - 0.97)	1.11 (1.06 - 1.15)
2006	1.34 (1.26 - 1.42)	0.88 (0.83 - 0.93)	1.07 (1.03 - 1.12)
2007	1.31 (1.23 - 1.4)	0.86 (0.81 - 0.92)	1.03 (0.99 - 1.08)
2008	1.27 (1.19 - 1.34)	0.88 (0.83 - 0.93)	1.03 (0.98 - 1.07)
2009	1.28 (1.2 - 1.35)	0.86 (0.81 - 0.91)	1.04 (0.99 - 1.08)
2010	1.31 (1.24 - 1.39)	0.87 (0.82 - 0.92)	1.05 (1 - 1.09)
2011	1.29 (1.21 - 1.36)	0.85 (0.8 - 0.9)	1.04 (0.99 - 1.08)
2012	1.33 (1.25 - 1.4)	0.82 (0.78 - 0.87)	1.04 (1 - 1.08)
2013	1.37 (1.29 - 1.44)	0.8 (0.75 - 0.85)	1.03 (0.99 - 1.07)
2014	1.31 (1.23 - 1.38)	0.78 (0.73 - 0.82)	0.99 (0.95 - 1.03)
2015	1.3 (1.22 - 1.37)	0.86 (0.81 - 0.91)	1.05 (1.01 - 1.09)
2016	1.4 (1.33 - 1.48)	0.85 (0.81 - 0.9)	1.09 (1.05 - 1.13)

2017	1.42 (1.35 - 1.5)	0.89 (0.84 - 0.94)	1.13 (1.09 - 1.17)
2018	1.55 (1.48 - 1.63)	0.96 (0.91 - 1.01)	1.19 (1.15 - 1.24)
2019	1.58 (1.51 - 1.66)	1.01 (0.95 - 1.06)	1.25 (1.21 - 1.3)
2020	1.84 (1.76 - 1.92)	1.18 (1.13 - 1.24)	1.47 (1.43 - 1.52)
2021	1.97 (1.89 - 2.05)	1.25 (1.2 - 1.31)	1.57 (1.52 - 1.62)
2022	2.04 (1.95 - 2.12)	1.35 (1.29 - 1.41)	1.63 (1.58 - 1.68)
2023	2.22 (2.13 - 2.31)	1.3 (1.24 - 1.35)	1.69 (1.64 - 1.74)

Supplemental Table SIV. IHD and cancer-related Age-Adjusted Mortality Rates per 100,000, Stratified by Race in the United States, 1999 to 2023

	Age-Adjusted Rate (95% CI)			
Year	NH Black or African American	NH White	Hispanic or Latino	NH Others
1999	2.69 (2.42 - 2.97)	0.9 (0.86 - 0.95)	0.75 (0.56 - 0.98)	0.99 (0.7 - 1.37)
2000	2.31 (2.06 - 2.56)	0.87 (0.82 - 0.92)	0.79 (0.6 - 1.02)	0.77 (0.53 - 1.07)
2001	2.33 (2.08 - 2.58)	0.92 (0.87 - 0.97)	0.72 (0.55 - 0.93)	0.86 (0.61 - 1.18)
2002	2.51 (2.25 - 2.77)	0.93 (0.89 - 0.98)	0.67 (0.51 - 0.87)	0.84 (0.59 - 1.16)
2003	2.69 (2.43 - 2.96)	0.96 (0.91 - 1.01)	0.76 (0.59 - 0.96)	1.01 (0.75 - 1.34)
2004	2.29 (2.05 - 2.53)	0.96 (0.91 - 1.01)	0.76 (0.59 - 0.97)	0.96 (0.71 - 1.26)
2005	2.54 (2.28 - 2.79)	0.97 (0.92 - 1.02)	0.85 (0.67 - 1.05)	0.94 (0.7 - 1.23)
2006	2.44 (2.19 - 2.68)	0.95 (0.9 - 1)	0.79 (0.63 - 0.98)	0.93 (0.7 - 1.21)
2007	2.38 (2.14 - 2.62)	0.95 (0.9 - 0.99)	0.75 (0.6 - 0.93)	0.6 (0.42 - 0.82)
2008	2.42 (2.19 - 2.66)	0.92 (0.87 - 0.96)	0.65 (0.51 - 0.81)	0.76 (0.57 - 1)
2009	2.21 (1.99 - 2.43)	0.94 (0.89 - 0.98)	0.74 (0.59 - 0.91)	0.72 (0.54 - 0.94)
2010	2.21 (1.99 - 2.43)	0.96 (0.91 - 1.01)	0.76 (0.61 - 0.91)	0.88 (0.68 - 1.12)
2011	2.14 (1.93 - 2.35)	0.93 (0.89 - 0.97)	0.7 (0.56 - 0.84)	0.89 (0.7 - 1.13)
2012	2.19 (1.98 - 2.4)	0.94 (0.89 - 0.98)	0.75 (0.61 - 0.89)	0.8 (0.63 - 1.02)
2013	2.24 (2.03 - 2.45)	0.94 (0.89 - 0.98)	0.75 (0.62 - 0.89)	0.68 (0.52 - 0.87)
2014	2.06 (1.86 - 2.26)	0.94 (0.89 - 0.98)	0.71 (0.58 - 0.84)	0.6 (0.46 - 0.77)
2015	1.93 (1.75 - 2.12)	0.98 (0.94 - 1.03)	0.71 (0.58 - 0.83)	0.75 (0.59 - 0.93)

2016	2.29 (2.08 - 2.49)	0.98 (0.93 - 1.02)	0.85 (0.72 - 0.98)	0.92 (0.74 - 1.09)
2017	2.21 (2.01 - 2.41)	1.04 (0.99 - 1.09)	0.93 (0.8 - 1.07)	0.74 (0.59 - 0.9)
2018	2.13 (1.94 - 2.31)	1.16 (1.11 - 1.2)	0.81 (0.69 - 0.93)	0.64 (0.51 - 0.8)
2019	2.24 (2.05 - 2.43)	1.17 (1.13 - 1.22)	0.87 (0.75 - 1)	0.66 (0.53 - 0.81)
2020	2.73 (2.52 - 2.94)	1.37 (1.32 - 1.42)	0.99 (0.86 - 1.12)	0.94 (0.78 - 1.1)
2021	2.73 (2.51 - 2.94)	1.54 (1.49 - 1.6)	0.94 (0.81 - 1.06)	0.93 (0.77 - 1.09)
2022	2.81 (2.61 - 3.02)	1.58 (1.52 - 1.63)	1.11 (0.98 - 1.24)	0.97 (0.82 - 1.13)
2023	2.87 (2.66 - 3.08)	1.63 (1.58 - 1.69)	1.14 (1 - 1.27)	1.06 (0.89 - 1.22)

Supplemental Table SV. IHD and cancer-related Age-Adjusted Mortality Rates per 100,000, Stratified by States in the United States, 1999 to 2023

State	Age-Adjusted Rate (95% CI)	
	1999-2020	2021-2023
Alabama	0.79 (0.72 - 0.85)	1.29 (1.09 - 1.49)
Alaska	0.58 (0.39 - 0.84)	Unreliable (0.33 - 1.39)
Arizona	0.88 (0.82 - 0.93)	1.3 (1.14 - 1.46)
Arkansas	0.98 (0.89 - 1.07)	2.08 (1.75 - 2.4)
California	1.61 (1.57 - 1.64)	1.73 (1.64 - 1.81)
Colorado	0.98 (0.9 - 1.05)	1.64 (1.41 - 1.87)
Connecticut	0.75 (0.69 - 0.82)	0.72 (0.56 - 0.92)
Delaware	0.69 (0.55 - 0.82)	1.97 (1.48 - 2.58)
District of Columbia	3.32 (2.93 - 3.7)	3.82 (2.83 - 5.03)
Florida	0.74 (0.72 - 0.77)	1.2 (1.12 - 1.29)
Georgia	1.11 (1.05 - 1.17)	1.78 (1.6 - 1.96)
Hawaii	1.02 (0.89 - 1.15)	1.22 (0.92 - 1.59)
Idaho	0.87 (0.75 - 0.99)	1.65 (1.28 - 2.09)
Illinois	0.88 (0.84 - 0.92)	0.9 (0.8 - 1.01)
Indiana	0.88 (0.82 - 0.94)	1.37 (1.19 - 1.55)
Iowa	1.15 (1.06 - 1.24)	1.69 (1.41 - 1.97)
Kansas	0.72 (0.64 - 0.8)	1.6 (1.31 - 1.9)
Kentucky	0.86 (0.79 - 0.93)	1.7 (1.45 - 1.95)

Louisiana	1.26 (1.17 - 1.34)	1.74 (1.48 - 1.99)
Maine	0.7 (0.6 - 0.81)	1.76 (1.37 - 2.23)
Maryland	1.37 (1.29 - 1.45)	1.86 (1.64 - 2.08)
Massachusetts	0.66 (0.62 - 0.71)	0.94 (0.79 - 1.09)
Michigan	1.06 (1.01 - 1.12)	1.47 (1.32 - 1.62)
Minnesota	1.05 (0.98 - 1.12)	2.32 (2.07 - 2.57)
Mississippi	2.13 (1.99 - 2.27)	4.52 (4.02 - 5.02)
Missouri	0.77 (0.72 - 0.83)	0.91 (0.76 - 1.06)
Montana	0.79 (0.65 - 0.92)	1.12 (0.77 - 1.57)
Nebraska	1.27 (1.15 - 1.4)	2.5 (2.05 - 2.96)
Nevada	1.03 (0.93 - 1.14)	2.07 (1.73 - 2.41)
New Hampshire	0.99 (0.85 - 1.12)	0.64 (0.4 - 0.96)
New Jersey	0.84 (0.79 - 0.89)	1.06 (0.92 - 1.19)
New Mexico	0.66 (0.57 - 0.75)	0.82 (0.6 - 1.11)
New York	1.41 (1.37 - 1.45)	2.18 (2.05 - 2.31)
North Carolina	0.92 (0.87 - 0.97)	1.29 (1.15 - 1.43)
North Dakota	1.24 (1.04 - 1.43)	2.92 (2.2 - 3.81)
Ohio	1.4 (1.35 - 1.46)	1.68 (1.54 - 1.83)
Oklahoma	1.99 (1.87 - 2.1)	7.86 (7.28 - 8.43)
Oregon	1.18 (1.1 - 1.27)	2.02 (1.75 - 2.29)
Pennsylvania	0.81 (0.78 - 0.85)	1.12 (1.01 - 1.23)
Rhode Island	0.95 (0.82 - 1.09)	1.41 (1.01 - 1.91)
South Carolina	1.07 (0.99 - 1.15)	1.44 (1.23 - 1.65)

South Dakota	1.13 (0.96 - 1.3)	1.68 (1.19 - 2.31)
Tennessee	1.21 (1.14 - 1.28)	1.99 (1.77 - 2.2)
Texas	1.12 (1.08 - 1.16)	1.57 (1.46 - 1.67)
Utah	0.57 (0.48 - 0.66)	1.11 (0.83 - 1.44)
Vermont	1.44 (1.21 - 1.66)	2.09 (1.48 - 2.87)
Virginia	0.75 (0.7 - 0.81)	1.09 (0.94 - 1.23)
Washington	1.19 (1.13 - 1.26)	2.07 (1.86 - 2.29)
West Virginia	1.13 (1.01 - 1.24)	1.82 (1.45 - 2.25)
Wisconsin	0.91 (0.85 - 0.98)	1.63 (1.42 - 1.83)
Wyoming	0.8 (0.61 - 1.02)	1.75 (1.11 - 2.63)

Supplemental Table SVI. IHD and cancer-related Age-Adjusted Mortality Rates per 100,000, Stratified by Census Region in the United States, 1999 to 2023

Census Region	Year	Age-Adjusted Rate (95% CI)
Northeast		
Northeast	1999	0.86 (0.77 - 0.96)
Northeast	2000	0.82 (0.73 - 0.91)
Northeast	2001	0.87 (0.78 - 0.96)
Northeast	2002	0.98 (0.89 - 1.08)
Northeast	2003	0.92 (0.83 - 1.02)
Northeast	2004	0.97 (0.87 - 1.06)
Northeast	2005	0.97 (0.87 - 1.06)
Northeast	2006	1.01 (0.91 - 1.11)
Northeast	2007	0.92 (0.82 - 1.01)
Northeast	2008	1 (0.9 - 1.09)
Northeast	2009	1.04 (0.95 - 1.14)
Northeast	2010	0.99 (0.9 - 1.09)
Northeast	2011	0.97 (0.88 - 1.07)
Northeast	2012	0.94 (0.85 - 1.03)
Northeast	2013	1 (0.91 - 1.09)
Northeast	2014	0.99 (0.9 - 1.08)
Northeast	2015	1 (0.91 - 1.09)
Northeast	2016	1.09 (0.99 - 1.18)

Northeast	2017	1.1 (1 - 1.19)
Northeast	2018	1.04 (0.95 - 1.13)
Northeast	2019	1.15 (1.06 - 1.24)
Northeast	2020	1.39 (1.29 - 1.49)
Northeast	2021	1.36 (1.25 - 1.46)
Northeast	2022	1.42 (1.32 - 1.52)
Northeast	2023	1.52 (1.42 - 1.63)
Midwest		
Midwest	1999	1.05 (0.95 - 1.14)
Midwest	2000	0.96 (0.87 - 1.05)
Midwest	2001	1.05 (0.95 - 1.15)
Midwest	2002	1 (0.91 - 1.1)
Midwest	2003	1.01 (0.92 - 1.11)
Midwest	2004	1.08 (0.98 - 1.18)
Midwest	2005	1.1 (1.01 - 1.2)
Midwest	2006	0.96 (0.87 - 1.05)
Midwest	2007	1.01 (0.92 - 1.1)
Midwest	2008	0.98 (0.89 - 1.07)
Midwest	2009	0.99 (0.9 - 1.08)
Midwest	2010	1.02 (0.93 - 1.11)
Midwest	2011	0.96 (0.87 - 1.04)
Midwest	2012	0.95 (0.87 - 1.03)
Midwest	2013	0.97 (0.88 - 1.06)

Midwest	2014	0.85 (0.77 - 0.93)
Midwest	2015	1.02 (0.93 - 1.11)
Midwest	2016	1.02 (0.94 - 1.11)
Midwest	2017	0.96 (0.88 - 1.04)
Midwest	2018	1.13 (1.04 - 1.22)
Midwest	2019	1.15 (1.06 - 1.24)
Midwest	2020	1.26 (1.17 - 1.35)
Midwest	2021	1.45 (1.35 - 1.55)
Midwest	2022	1.53 (1.43 - 1.63)
Midwest	2023	1.5 (1.4 - 1.6)
South		
South	1999	0.97 (0.89 - 1.05)
South	2000	0.91 (0.84 - 0.99)
South	2001	0.94 (0.87 - 1.02)
South	2002	0.98 (0.9 - 1.05)
South	2003	1.07 (0.99 - 1.15)
South	2004	0.94 (0.86 - 1.01)
South	2005	1 (0.93 - 1.08)
South	2006	0.97 (0.9 - 1.04)
South	2007	0.98 (0.91 - 1.05)
South	2008	0.95 (0.88 - 1.02)
South	2009	0.92 (0.86 - 0.99)
South	2010	0.97 (0.9 - 1.04)

South	2011	0.94 (0.88 - 1.01)
South	2012	1.02 (0.95 - 1.09)
South	2013	0.99 (0.92 - 1.05)
South	2014	0.97 (0.9 - 1.04)
South	2015	0.96 (0.9 - 1.03)
South	2016	1 (0.94 - 1.07)
South	2017	1.16 (1.09 - 1.23)
South	2018	1.22 (1.15 - 1.29)
South	2019	1.26 (1.19 - 1.33)
South	2020	1.56 (1.48 - 1.64)
South	2021	1.68 (1.6 - 1.76)
South	2022	1.78 (1.7 - 1.86)
South	2023	1.8 (1.71 - 1.88)
West		
West	1999	1.29 (1.03 - 1.06)
West	2000	1.26 (1.17 - 1.41)
West	2001	1.24 (1.15 - 1.38)
West	2002	1.24 (1.13 - 1.36)
West	2003	1.36 (1.12 - 1.35)
West	2004	1.35 (1.24 - 1.47)
West	2005	1.38 (1.23 - 1.47)
West	2006	1.42 (1.27 - 1.5)
West	2007	1.28 (1.31 - 1.54)

West	2008	1.25 (1.17 - 1.39)
West	2009	1.2 (1.14 - 1.36)
West	2010	1.24 (1.1 - 1.3)
West	2011	1.28 (1.14 - 1.34)
West	2012	1.23 (1.18 - 1.39)
West	2013	1.15 (1.13 - 1.33)
West	2014	1.22 (1.05 - 1.24)
West	2015	1.26 (1.12 - 1.32)
West	2016	1.29 (1.16 - 1.36)
West	2017	1.27 (1.19 - 1.39)
West	2018	1.35 (1.17 - 1.36)
West	2019	1.33 (1.25 - 1.44)
West	2020	1.5 (1.24 - 1.43)
West	2021	1.65 (1.4 - 1.59)
West	2022	1.59 (1.54 - 1.75)
West	2023	1.75 (1.49 - 1.69)

Supplemental Table SVII. IHD and cancer-related Age-Adjusted Mortality Rates per 100,000 in United States stratified by Urban-Rural Classification, 1999-2020

	Age-Adjusted Rate (95% CI)	
Year	Urban	Rural
1999	1.05 (1 - 1.11)	0.94 (0.83 - 1.04)
2000	1 (0.95 - 1.06)	0.84 (0.74 - 0.94)
2001	1.03 (0.98 - 1.08)	1 (0.89 - 1.1)
2002	1.04 (0.99 - 1.09)	1.03 (0.93 - 1.14)
2003	1.15 (1.09 - 1.2)	0.9 (0.8 - 1)
2004	1.07 (1.02 - 1.12)	0.99 (0.88 - 1.09)
2005	1.12 (1.07 - 1.18)	1 (0.9 - 1.11)
2006	1.07 (1.02 - 1.12)	1.01 (0.9 - 1.11)
2007	1.03 (0.98 - 1.08)	1 (0.9 - 1.1)
2008	1.05 (1 - 1.09)	0.91 (0.81 - 1.01)
2009	1.03 (0.99 - 1.08)	1 (0.9 - 1.1)
2010	1.07 (1.03 - 1.12)	0.95 (0.85 - 1.05)
2011	1.05 (1 - 1.1)	0.94 (0.84 - 1.04)
2012	1.02 (0.97 - 1.06)	1.01 (0.91 - 1.11)
2013	1.04 (0.99 - 1.08)	0.96 (0.87 - 1.06)
2014	1.01 (0.96 - 1.05)	0.95 (0.86 - 1.05)
2015	1.05 (1 - 1.09)	1.04 (0.94 - 1.14)
2016	1.11 (1.07 - 1.16)	1.04 (0.94 - 1.13)

2017	1.11 (1.06 - 1.15)	1.17 (1.06 - 1.27)
2018	1.19 (1.14 - 1.23)	1.26 (1.15 - 1.37)
2019	1.22 (1.17 - 1.27)	1.4 (1.29 - 1.52)
2020	1.44 (1.39 - 1.5)	1.57 (1.46 - 1.69)
Overall	1.10 (95% CI: 1.05 - 1.15)	1.03 (95% CI: 0.94 - 1.12)