

Supplemental Table 1: Essential HTN related mortalities in older adults with CAD stratified by sex and race in the United States, 1999 to 2020

		Deaths							
Year	Overall	Women	Men	NH White	NH Black	American Indian	Hispanic	Asian	Population
1999	14105	8373	5732	11671	1442	34	625	286	34797841
2000	73330	43373	29957	59927	8847	217	2889	1282	34991753
2001	75314	43984	31330	61659	8778	187	3194	1309	35290291
2002	79571	46204	33367	64963	9281	250	3382	1489	35522207
2003	81486	46581	34905	66653	9270	285	3559	1532	35863529
2004	81862	46330	35532	67054	9120	265	3643	1618	36203319
2005	86246	48542	37704	70439	9455	316	4217	1674	36649798
2006	85968	47403	38565	70203	9302	331	4238	1773	37164107
2007	87158	47792	39366	71225	9462	352	4177	1848	37825711
2008	89095	48259	40836	72808	9491	332	4372	1946	38777621
2009	87244	46518	40726	71234	9100	384	4402	1993	39623175
2010	90187	47531	42656	73540	9159	373	4802	2103	40267984
2011	95007	49004	46003	76707	9941	433	5421	2332	41394141
2012	97154	49487	47667	78186	10145	474	5619	2467	43145356
2013	87837	44424	43413	70602	8917	412	5385	2314	44704074
2014	87496	43206	44290	70372	8713	449	5472	2240	46243211
2015	88185	42868	45317	70734	8761	445	5536	2381	47760852
2016	88684	42591	46093	70798	8955	478	5781	2411	49244195
2017	92280	43670	48610	73446	9279	507	6112	2641	50858679
2018	95079	44029	51050	75720	9534	509	6243	2823	52431193
2019	97342	44674	52668	77273	9811	470	6694	2875	54058263
2020	118181	52894	65287	91085	12970	631	9445	3784	55659365
Total	1878811	977737	901074	1516299	199733	8134	105208	45121	928476665
NH=Non Hispanic									

Supplemental Table 2: Essential HTN related mortalities in older adults with CAD stratified by Location in the United States, 1999 to 2020

Deaths				
Year	Medical Facility	Nursing Home/Long-term Care Facility	Hospice Facility	Home
1999	5206	4139	-	3604
2000	21924	19960	-	17428
2001	22460	20758	-	17937
2002	23426	22376	-	19250
2003	23249	23100	70	20301
2004	22856	23313	156	20933
2005	23608	24791	684	22221
2006	23152	24527	922	22826
2007	23330	24747	1438	23386
2008	23283	24857	1792	24074
2009	21997	23847	1945	24465
2010	22793	24690	2460	26287
2011	23956	25558	3110	27666
2012	23571	26083	3594	28915
2013	20760	23024	3145	27593
2014	20098	22513	3406	28513
2015	19802	22801	3662	29173
2016	19453	21908	4098	30076
2017	19897	22892	4302	31758
2018	20241	23096	4509	33715
2019	20542	22731	5049	35301
2020	25585	25161	5397	45785
Total	471189	496872	49739	561207

Supplemental Table 3: APC of Essential HTN-related AAMR per 100,000, in older adults with CAD in the United States, 1999 to 2020

Year Interval	APC (95% CI)	P-value
Overall		
1999–2001	67.81 (13.98 to 123.71)*	0.003199
2001–2020	-1.22 (-2.50 to -0.20)*	0.020796
Men		
1999–2001	57.50 (5.38 to 113.60)*	0.006399
2001–2020	-0.25 (-1.69 to 0.72)*	0.582683
Women		
1999–2001	55.96 (5.05 to 112.73)*	0.016397
2001–2020	-2.10 (-3.68 to -1.09)*	0.006799
NH White		
1999–2001	49.96 (2.29 to 105.55)*	0.016397
2001–2020	-0.79 (-2.37 to 0.13)*	0.090382
NH Black		
1999–2001	54.93 (-0.04 to 121.35)*	0.051190
2001–2020	28.55 (15.65 to 36.48)*	0.016397
Hispanic		
1999–2001	61.21 (11.72 to 110.20)*	0.002799
2001–2018	-2.26 (-6.22 to -1.41)*	0.002799
2018–2020	14.69 (0.08 to 25.41)*	0.045591
American Indian		
1999–2005	11.81 (2.89 to 72.97)	0.002799
2005–2020	-1.97 (-4.98 to -0.34)	0.017596
Asian		
1999–2001	46.31 (-0.60 to 96.35)	0.064387
2001–2020	-2.38 (-4.62 to -1.32)	0.021196
Urban Areas		
1999–2001	56.98 (6.12 to 111.58)*	0.009598
2001–2020	-1.39 (-2.79 to -0.43)*	0.011598
Rural Areas		
1999–2001	60.40 (3.44 to 129.97)*	0.011998
2001–2020	-0.05 (-1.69 to 1.01)*	0.843031
Northeast		
1999–2001	53.41 (5.36 to 104.29)*	0.011598
2001–2020	-1.29 (-2.79 to -0.33)*	0.015997
Midwest		
1999–2001	57.89 (7.21 to 109.24)*	0.008398
2001–2020	-1.21 (-2.66 to -0.21)*	0.021596

South		
1999–2001	54.47 (-0.80 to 147.97)*	0.069586
2001–2020	-0.71 (-10.04 to 1.42)*	0.228354
West		
1999–2001	51.25 (15.98 to 82.01)*	0.000800
2001–2020	-1.67 (2.55 to -0.92)*	0.000800

Supplemental Table 4: Essential HTN related AAMRs in older adults with CAD stratified by Sex in the United States, 1999 to 2020

Year	Men	Women	Overall
1999	44.8 (43.6 to 46)	37.9 (37.1 to 38.7)	41 (40.3 to 41.7)
2000	229.1 (226.4 to 231.7)	195 (193.2 to 196.9)	210.7 (209.2 to 212.2)
2001	235.3 (232.6 to 237.9)	195.5 (193.7 to 197.3)	213.4 (211.9 to 215)
2002	248.3 (245.6 to 251)	203.6 (201.7 to 205.4)	223.1 (221.6 to 224.7)
2003	254.7 (252 to 257.4)	202.7 (200.8 to 204.5)	225.3 (223.8 to 226.9)
2004	255.4 (252.7 to 258.1)	199.8 (198 to 201.7)	223.7 (222.1 to 225.2)
2005	265.5 (262.7 to 268.2)	206 (204.1 to 207.8)	231.4 (229.8 to 232.9)
2006	265.3 (262.6 to 267.9)	197.9 (196.1 to 199.7)	226.2 (224.7 to 227.8)
2007	264.5 (261.9 to 267.1)	195.5 (193.8 to 197.3)	224.7 (223.2 to 226.2)
2008	267.4 (264.8 to 270)	194.3 (192.5 to 196)	224.9 (223.4 to 226.4)
2009	260 (257.4 to 262.5)	184.1 (182.4 to 185.8)	215.9 (214.4 to 217.3)
2010	267.4 (264.8 to 269.9)	185.2 (183.5 to 186.9)	219.5 (218 to 220.9)
2011	277.4 (274.9 to 280)	186.8 (185.1 to 188.5)	224.8 (223.3 to 226.2)
2012	277.3 (274.8 to 279.8)	184.4 (182.7 to 186)	223.3 (221.9 to 224.7)
2013	243.3 (241 to 245.6)	162.4 (160.8 to 163.9)	196.6 (195.3 to 198)
2014	239.6 (237.4 to 241.9)	154.7 (153.2 to 156.2)	190.9 (189.6 to 192.2)
2015	237.7 (235.5 to 239.9)	150.6 (149.2 to 152.1)	187.8 (186.5 to 189)
2016	234.4 (232.2 to 236.6)	146.9 (145.5 to 148.3)	184.2 (183 to 185.4)
2017	239.7 (237.6 to 241.9)	147.7 (146.3 to 149.1)	187 (185.8 to 188.2)
2018	243.3 (241.2 to 245.4)	145.5 (144.2 to 146.9)	187.4 (186.2 to 188.6)
2019	243.4 (241.3 to 245.5)	145.2 (143.9 to 146.6)	187.4 (186.3 to 188.6)
2020	293.6 (291.4 to 295.9)	169.2 (167.8 to 170.7)	222.7 (221.4 to 224)
Total	244.88 (242.47 to 247.28)	172.31 (170.70 to 173.92)	203.26 (201.89 to 204.64)

Supplemental Table 5: Essential HTN related AAMRs in older adults with CAD stratified by Race in the United States, 1999 to 2020

Year	NH White	NH Black	American Indian	Asian	Hispanic
1999	39.4 (38.7 to 40.2)	53.8 (51 to 56.6)	31.2 (21.5 to 43.8)	43.8 (38.5 to 49)	44.2 (40.6 to 47.7)
2000	201 (199.4 to 202.6)	327.3 (320.5 to 334.2)	173.5 (150 to 196.9)	180.2 (170.1 to 190.3)	193 (185.8 to 200.2)
2001	204.7 (203.1 to 206.3)	321.3 (314.5 to 328)	145.8 (124.5 to 167.1)	170 (160.6 to 179.4)	203 (195.8 to 210.2)
2002	214 (212.3 to 215.6)	338 (331 to 344.9)	192.1 (167.8 to 216.5)	182.2 (172.8 to 191.7)	204 (197 to 211.1)
2003	217.1 (215.4 to 218.7)	333.1 (326.3 to 339.9)	214.3 (188.9 to 239.7)	178 (168.9 to 187.1)	206.1 (199.2 to 213)
2004	216.5 (214.9 to 218.2)	324.1 (317.5 to 330.8)	197.6 (173.2 to 221.9)	178 (169.2 to 186.8)	200 (193.4 to 206.6)
2005	224.2 (222.5 to 225.8)	329.1 (322.4 to 335.7)	226.1 (200.5 to 251.6)	170.7 (162.4 to 179)	219.2 (212.5 to 225.9)
2006	219.9 (218.3 to 221.6)	317.4 (310.9 to 323.9)	230.7 (205.3 to 256.1)	172.4 (164.3 to 180.5)	208.5 (202.2 to 214.9)
2007	219.3 (217.7 to 221)	316.6 (310.2 to 323)	233.9 (208.9 to 258.9)	167.9 (160.1 to 175.6)	196.6 (190.5 to 202.6)
2008	220.4 (218.8 to 222)	308.9 (302.6 to 315.1)	210 (186.9 to 233.2)	167.8 (160.3 to 175.4)	195.5 (189.6 to 201.4)
2009	212.3 (210.7 to 213.9)	288.3 (282.4 to 294.3)	235.3 (211.1 to 259.4)	161.8 (154.7 to 169)	185.5 (180 to 191)
2010	216.4 (214.8 to 217.9)	284 (278.2 to 289.9)	221.3 (198.2 to 244.4)	164.2 (157.2 to 171.3)	194.8 (189.3 to 200.4)
2011	220.9 (219.3 to 222.5)	296.2 (290.4 to 302.1)	240.6 (217.4 to 263.8)	165.5 (158.8 to 172.3)	201.7 (196.3 to 207.1)
2012	220 (218.4 to 221.6)	290.5 (284.8 to 296.2)	241.5 (219.2 to 263.9)	162.8 (156.3 to 169.2)	197.2 (192 to 202.4)
2013	195 (193.6 to 196.5)	245.3 (240.2 to 250.5)	198 (178.3 to 217.7)	141.1 (135.3 to 146.9)	177.7 (173 to 182.5)
2014	190.9 (189.5 to 192.3)	230.2 (225.3 to 235.1)	201.1 (181.9 to 220.2)	126.2 (120.9 to 131.4)	168.7 (164.2 to 173.2)
2015	188.8 (187.4 to 190.2)	222.5 (217.8 to 227.2)	188.7 (170.7 to 206.7)	123.8 (118.8 to 128.8)	159.7 (155.5 to 164)
2016	185.4 (184 to 186.8)	218.8 (214.2 to 223.4)	191.9 (174.2 to 209.6)	118.8 (114 to 123.6)	158.1 (154 to 162.3)
2017	189 (187.6 to 190.3)	217.7 (213.2 to 222.2)	193.8 (176.5 to 211.1)	121.1 (116.4 to 125.7)	158.1 (154.1 to 162.1)
2018	190.7 (189.3 to 192)	215.6 (211.2 to 219.9)	179.3 (163.3 to 195.2)	122.3 (117.8 to 126.9)	153.4 (149.5 to 157.2)
2019	191 (189.7 to 192.4)	213.4 (209.1 to 217.7)	158.6 (143.9 to 173.2)	117.9 (113.6 to 122.3)	158.3 (154.5 to 162.2)
2020	222 (220.6 to 223.5)	271.4 (266.6 to 276.1)	202.9 (186.7 to 219.1)	146.2 (141.5 to 150.9)	212.3 (207.9 to 216.6)
Total	199.95 (198.45 to 201.45)	271.06 (265.46 to 276.66)	195.82 (174.95 to 216.81)	149.21 (142.38 to 156.05)	181.61 (176.22 to 187.02)

Supplemental Table 6: Essential HTN related AAMRs in older adults with CAD stratified by Census Region in the United States, 1999 to 2020

Year	Age-Adjusted Rate (95% CI) - Northeast	Age-Adjusted Rate (95% CI) - Midwest	Age-Adjusted Rate (95% CI) - South	Age-Adjusted Rate (95% CI) - West
1999	45.1 (43.6 to 46.6)	46.4 (45 to 47.9)	18.9 (18.1 to 19.7)	69.3 (67.3 to 71.3)
2000	206.7 (203.4 to 209.9)	219.9 (216.8 to 223.1)	201.6 (199.1 to 204.2)	219.2 (215.6 to 222.7)
2001	207.7 (204.5 to 211)	219.3 (216.2 to 222.5)	206.8 (204.3 to 209.4)	223.3 (219.8 to 226.8)
2002	217.1 (213.8 to 220.4)	226.6 (223.4 to 229.8)	218.7 (216 to 221.3)	232.6 (229.1 to 236.2)
2003	215.5 (212.3 to 218.8)	228.5 (225.3 to 231.7)	225.1 (222.5 to 227.7)	231.3 (227.8 to 234.8)
2004	216.9 (213.6 to 220.2)	226.5 (223.3 to 229.7)	220.2 (217.6 to 222.7)	232.4 (229 to 235.9)
2005	220.1 (216.8 to 223.4)	234.7 (231.5 to 237.9)	233.1 (230.5 to 235.7)	235.1 (231.6 to 238.5)
2006	208.1 (204.9 to 211.3)	233 (229.8 to 236.2)	225.7 (223.2 to 228.3)	236.8 (233.4 to 240.2)
2007	208.3 (205.2 to 211.5)	234.6 (231.4 to 237.8)	224.8 (222.3 to 227.3)	228.5 (225.2 to 231.8)
2008	209.6 (206.5 to 212.7)	238.8 (235.6 to 241.9)	220.3 (217.8 to 222.8)	231 (227.7 to 234.3)
2009	200.3 (197.2 to 203.4)	224.4 (221.4 to 227.4)	219 (216.6 to 221.4)	215 (211.9 to 218.2)
2010	209.1 (206 to 212.2)	225.3 (222.3 to 228.3)	223 (220.6 to 225.5)	215.7 (212.6 to 218.8)
2011	218.9 (215.7 to 222)	231.6 (228.6 to 234.7)	223.4 (221 to 225.8)	223.5 (220.4 to 226.6)
2012	215.9 (212.8 to 219)	230.3 (227.2 to 233.3)	224.6 (222.3 to 227)	218.9 (215.8 to 221.9)
2013	191.1 (188.2 to 194)	197.9 (195.1 to 200.6)	200.4 (198.2 to 202.6)	192.9 (190.1 to 195.7)
2014	184.1 (181.3 to 187)	196.4 (193.7 to 199.2)	194.8 (192.6 to 196.9)	183.4 (180.7 to 186.1)
2015	180.3 (177.5 to 183.1)	194.5 (191.8 to 197.2)	192 (189.9 to 194.1)	178.8 (176.2 to 181.4)
2016	172.5 (169.8 to 175.2)	186.3 (183.7 to 188.9)	189.5 (187.5 to 191.6)	182.2 (179.6 to 184.8)
2017	171.9 (169.2 to 174.6)	192.1 (189.5 to 194.8)	193.8 (191.8 to 195.9)	182 (179.4 to 184.5)
2018	176.9 (174.2 to 179.6)	189.6 (187.1 to 192.2)	195.3 (193.3 to 197.3)	179.7 (177.2 to 182.2)
2019	172.2 (169.6 to 174.8)	186.5 (183.9 to 189)	199.3 (197.3 to 201.3)	180.1 (177.7 to 182.6)
2020	207.5 (204.7 to 210.3)	226.9 (224.1 to 229.7)	237.2 (235.1 to 239.4)	205.7 (203.1 to 208.3)

Total	193.44 (190.49 to 196.40)	208.64 (205.75 to 211.53)	203.97 (201.70 to 206.26)	204.42 (201.41 to 207.43)
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Supplemental Table 7: Essential HTN related AAMRs in older adults with CAD stratified by Urbanization in the United States, 1999 to 2020

Year	Urban Age-Adjusted Rate (95% CI)	Rural Age-Adjusted Rate (95% CI)
1999	43.3 (42.6 to 44.1)	31.5 (30.1 to 32.8)
2000	211.2 (209.5 to 212.9)	208.5 (205.1 to 212)
2001	214 (212.3 to 215.7)	210.7 (207.3 to 214.2)
2002	222.3 (220.6 to 224)	226.6 (223 to 230.2)
2003	222.2 (220.5 to 223.9)	238.3 (234.7 to 242)
2004	220.6 (218.9 to 222.3)	236.7 (233.1 to 240.3)
2005	227 (225.3 to 228.7)	250.1 (246.4 to 253.9)
2006	222.9 (221.3 to 224.6)	241 (237.4 to 244.6)
2007	220.2 (218.6 to 221.9)	244.1 (240.5 to 247.8)
2008	219.1 (217.4 to 220.7)	250.9 (247.3 to 254.6)
2009	209.1 (207.5 to 210.7)	246.2 (242.6 to 249.8)
2010	213.5 (211.9 to 215)	246.4 (242.8 to 250)
2011	220.1 (218.5 to 221.7)	246.1 (242.5 to 249.6)
2012	217.2 (215.6 to 218.7)	251.6 (248 to 255.1)
2013	190.9 (189.5 to 192.3)	223.2 (219.9 to 226.6)
2014	184.4 (183 to 185.8)	221.4 (218.2 to 224.7)
2015	179.6 (178.3 to 181)	226.3 (223 to 229.6)
2016	176.6 (175.3 to 177.9)	220.7 (217.4 to 223.9)
2017	179.3 (177.9 to 180.6)	224 (220.8 to 227.2)
2018	178.9 (177.7 to 180.2)	228.8 (225.6 to 232)
2019	177.9 (176.6 to 179.1)	234.1 (230.9 to 237.3)
2020	211.2 (209.8 to 212.5)	279.5 (276.1 to 283)
Total	197.9 (197.6 to 198.2)	228.2 (227.4 to 228.9)

Supplemental Table 8, Essential HTN related AAMRs in older adults with CAD stratified by States in the United States, 1999 to 2020

State	Age-Adjusted Rate (95% CI)
Alabama	151.6 (149.6 to 153.7)
Alaska	130.8 (123.7 to 137.8)
Arizona	151.8 (150.1 to 153.5)
Arkansas	240.4 (237.2 to 243.6)
California	242.8 (241.8 to 243.8)
Colorado	147.8 (145.6 to 150)
Connecticut	144.7 (142.6 to 146.8)
Delaware	219.1 (213.7 to 224.6)
District of Columbia	222.1 (214.8 to 229.3)
Florida	154.1 (153.3 to 155)
Georgia	153 (151.3 to 154.6)
Hawaii	160.1 (156.4 to 163.7)
Idaho	167.6 (163.7 to 171.5)
Illinois	176 (174.6 to 177.3)
Indiana	210.6 (208.5 to 212.6)
Iowa	218.8 (216.1 to 221.6)
Kansas	146.1 (143.6 to 148.6)
Kentucky	224.4 (221.8 to 227)
Louisiana	177.6 (175.2 to 179.9)
Maine	158.4 (154.9 to 162)
Maryland	254.3 (251.8 to 256.7)
Massachusetts	119.8 (118.3 to 121.2)
Michigan	208.8 (207.2 to 210.4)
Minnesota	188.4 (186.3 to 190.5)
Mississippi	300.8 (297.1 to 304.5)
Missouri	175.9 (174 to 177.8)
Montana	145.1 (141 to 149.2)
Nebraska	191.9 (188.4 to 195.4)
Nevada	137.8 (134.8 to 140.7)
New Hampshire	181.1 (176.9 to 185.2)
New Jersey	196.3 (194.6 to 197.9)
New Mexico	176.2 (172.8 to 179.6)
New York	215 (213.8 to 216.1)

North Carolina	213.1 (211.3 to 214.8)
North Dakota	250.2 (243.9 to 256.5)
Ohio	288.2 (286.5 to 289.9)
Oklahoma	310.9 (307.6 to 314.1)
Oregon	182.7 (180.3 to 185.1)
Pennsylvania	204.1 (202.8 to 205.4)
Rhode Island	298.7 (293.2 to 304.2)
South Carolina	210.5 (208.1 to 213)
South Dakota	221.5 (216 to 227)
Tennessee	244.4 (242.1 to 246.7)
Texas	239.9 (238.6 to 241.2)
Utah	104.7 (102 to 107.4)
Vermont	255.9 (249 to 262.8)
Virginia	158.3 (156.6 to 159.9)
Washington	194.5 (192.5 to 196.5)
West Virginia	303.7 (299.4 to 307.9)
Wisconsin	186.5 (184.6 to 188.5)
Wyoming	173.2 (166.6 to 179.7)