Table 24. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950-2010

(Data are based on death certificates)

Sex, race, Hispanic origin, and cause of death	1950 ^{2,3}	1960 ^{2,3}	1970 ³	1980 ³	1990 ³	20004	2005 ⁴	2009 ⁴	2010 ⁴
All persons			Age-adjus	ted death	rate per 2	L00,000 pop	ulation⁵		
All causes	1,446.0	1,339.2	1,222.6	1,039.1	938.7	869.0	815.0	749.6	747.0
Diseases of heart	588.8	559.0	492.7	412.1	321.8	257.6	216.8	182.8	179.1
Ischemic heart disease				345.2	249.6	186.8	148.2	117.7	113.6
Cerebrovascular diseases	180.7	177.9	147.7	96.2	65.3	60.9	48.0	39.6	39.1
Malignant neoplasms	193.9	193.9	198.6	207.9	216.0	199.6	185.1	173.5	172.8
Trachea, bronchus, and lung	15.0	24.1	37.1	49.9	59.3	56.1	52.7	48.4	47.6
Colon, rectum, and anus		30.3	28.9	27.4	24.5	20.8	17.7	16.0	15.8
Chronic lower respiratory diseases				28.3	37.2	44.2	43.9	42.7	42.2
Influenza and pneumonia	48.1	53.7	41.7	31.4	36.8	23.7	21.0	16.5	15.1
Chronic liver disease and cirrhosis	11.3	13.3	17.8	15.1	11.1	9.5	8.9	9.1	9.4
Diabetes mellitus	23.1	22.5	24.3	18.1	20.7	25.0	24.9	21.0	20.8
Alzheimer's disease				*	*	18.1	24.0	24.2	25.1
Human immunodeficiency virus (HIV) disease					10.2	5.2	4.2	3.0	2.6
Unintentional injuries	78.0	62.3	60.1	46.4	36.3	34.9	39.5	37.5	38.0
Motor vehicle-related injuries	24.6	23.1	27.6	22.3	18.5	15.4	15.2	11.6	11.3
Poisoning	2.5	1.7	2.8	1.9	2.3	4.5	8.0	10.3	10.6
Suicide ⁶	13.2	12.5	13.1	12.2	12.5	10.4	10.9	11.8	12.1
Homicide ⁶									
Homicide	5.1	5.0	8.8	10.4	9.4	5.9	6.1	5.5	5.3
Male									
All causes	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,053.8	971.9	890.9	887.1
Diseases of heart	699.0	687.6	634.0	538.9	412.4	320.0	268.2	229.4	225.1
Ischemic heart disease				459.7	328.2	241.4	192.3	156.2	151.3
Cerebrovascular diseases	186.4	186.1	157.4	102.2	68.5	62.4	48.4	39.9	39.3
Malignant neoplasms	208.1	225.1	247.6	271.2	280.4	248.9	227.2	210.9	209.9
Trachea, bronchus, and lung	24.6	43.6	67.5	85.2	91.1	76.7	69.1	61.4	60.3
Colon, rectum, and anus		31.8	32.3	32.8	30.4	25.1	21.2	19.1	19.0
Prostate	28.6	28.7	28.8	32.8	38.4	30.4	25.3	22.1	21.9
Chronic lower respiratory diseases				49.9	55.4	55.8	52.2	49.5	48.7
Influenza and pneumonia	55.0	65.8	54.0	42.1	47.8	28.9	24.9	19.6	18.2
Chronic liver disease and cirrhosis	15.0	18.5	24.8	21.3	15.9	13.4	12.4	12.5	12.9
Diabetes mellitus	18.8	19.9	23.0	18.1	21.7	27.8	28.8	25.0	24.9
Alzheimer's disease				*	*	15.2	19.5	20.2	21.0
Human immunodeficiency virus (HIV) disease					18.5	7.9	6.3	4.4	3.8
Unintentional injuries	101.8	85.5	87.4	69.0	52.9	49.3	55.0	51.4	51.5
Motor vehicle-related injuries	38.5	35.4	41.5	33.6	26.5	21.7	21.9	16.8	16.2
Poisoning	3.3	2.3	3.9	2.7	3.5	6.6	10.8	13.5	13.8
Suicide ⁶	21.2	20.0	19.8	19.9	21.5	17.7	18.1	19.2	19.8
$\texttt{Homicide}^{6}$	7.9	7.5	14.3	16.6	14.8	9.0	9.7	8.6	8.4
Female									
All causes	1,236.0	1,105.3	971.4	817.9	750.9	731.4	692.3	636.8	634.9
Diseases of heart	486.6	447.0	381.6	320.8	257.0	210.9	177.5	146.6	143.3
Ischemic heart disease				263.1	193.9	146.5	115.0	88.4	84.9
Cerebrovascular diseases	175.8	170.7	140.0	91.7	62.6	59.1	47.0	38.8	38.3

Malignant neoplasms	182.3	168.7	163.2	166.7	175.7	167.6	156.7	147.4	146.7
Trachea, bronchus, and lung	5.8	7.5	13.1	24.4	37.1	41.3	40.6	38.6	38.1
Colon, rectum, and anus		29.1	26.5	23.8	20.6	17.7	15.0	13.5	13.3
Breast	31.9	31.7	32.1	31.9	33.3	26.8	24.2	22.3	22.1
Chronic lower respiratory diseases				14.9	26.6	37.4	38.7	38.3	38.0
		43.8	32.7		30.5	20.7		14.5	13.1
Influenza and pneumonia	41.9			25.1			18.6		
Chronic liver disease and cirrhosis	7.8	8.7	11.9	9.9	7.1	6.2	5.8	6.1	6.2
Diabetes mellitus	27.0	24.7	25.1	18.0	19.9	23.0	21.9	17.9	17.6
Alzheimer's disease				*	*	19.3	26.2	26.3	27.3
Human immunodeficiency virus (HIV) disease					2.2	2.5	2.3	1.7	1.4
Unintentional injuries	54.0	40.0	35.1	26.1	21.5	22.0	25.3	24.8	25.6
Motor vehicle-related injuries	11.5	11.7	14.9	11.8	11.0	9.5	8.9	6.7	6.5
Poisoning	1.7	1.1	1.8	1.3	1.2	2.5	5.1	7.1	7.5
Suicide ⁶	5.6	5.6	7.4	5.7	4.8	4.0	4.4	4.9	5.0
Homicide ⁶	2.4	2.6	3.7	4.4	4.0	2.8	2.5	2.4	2.3
White ⁷									
All causes	1,410.8	1,311.3	1,193.3	1,012.7	909.8	849.8	801.1	742.8	741.8
Diseases of heart	586.0	559.0	492.2	409.4	317.0	253.4	213.2	180.1	176.9
Ischemic heart disease				347.6	249.7	185.6	147.3	117.4	113.5
Cerebrovascular diseases	175.5	172.7	143.5	93.2	62.8	58.8	46.0	38.1	37.7
		193.1	196.7	204.2	211.6	197.2	183.9	173.3	172.4
Malignant neoplasms	194.6								
Trachea, bronchus, and lung	15.2	24.0	36.7	49.2	58.6	56.2	53.2	49.1	48.3
Colon, rectum, and anus		30.9	29.2	27.4	24.1	20.3	17.1	15.6	15.3
Chronic lower respiratory diseases				29.3	38.3	46.0	46.0	45.1	44.6
Influenza and pneumonia	44.8	50.4	39.8	30.9	36.4	23.5	20.9	16.3	14.9
Chronic liver disease and cirrhosis	11.5	13.2	16.6	13.9	10.5	9.6	9.2	9.6	9.9
Diabetes mellitus	22.9	21.7	22.9	16.7	18.8	22.8	22.8	19.2	19.0
Alzheimer's disease				*	*	18.8	24.7	25.0	26.0
Human immunodeficiency virus (HIV) disease					8.3	2.8	2.2	1.5	1.4
Unintentional injuries	 77.0	 60.4	 57.8	45.3	35.5	35.1	40.7	39.5	40.3
Motor vehicle-related injuries	24.4		27.1	22.6	18.5	15.6	15.7	12.0	11.7
-		22.9							
Poisoning	2.4	1.6	2.4	1.8	2.1	4.5	8.5	11.4	11.9
Suicide ⁶	13.9	13.1	13.8	13.0	13.4	11.3	12.1	13.2	13.6
Homicide ⁶	2.6	2.7	4.7	6.7	5.5	3.6	3.7	3.4	3.3
Black or African American ⁷									
All causes	1 700 1	1,577.5	1,518.1	1,314.8	1,250.3	1,121.4	1,035.1	912.8	898.2
	1,/22.1	1,577.5	1,510.1	1,511.0	1,230.3	1,121,1	1,055.1	912.0	000.2
Diseases of heart	588.7	548.3	512.0	455.3	391.5	324.8	278.0	231.8	224.9
Ischemic heart disease				334.5	267.0	218.3	175.7	137.4	131.2
Cerebrovascular diseases	233.6	235.2	197.1	129.1	91.6	81.9	67.0	54.0	53.0
Malignant neoplasms	176.4	199.1	225.3	256.4	279.5	248.5	223.5	204.5	203.8
Trachea, bronchus, and lung	11.1	23.7	41.3	59.7	72.4	64.0	58.1	51.3	51.4
Colon, rectum, and anus		22.8	26.1	28.3	30.6	28.2	25.1	22.0	21.8
Chronic lower respiratory diseases			20.1	19.2	28.1	31.6	31.1	28.9	21.8
Influenza and pneumonia	76.7	81.1	57.2	34.4	39.4	25.6	22.6	18.0	16.8
Chronic liver disease and cirrhosis	9.0	13.6	28.1	25.0	16.5	9.4	7.6	6.8	6.7
Diabetes mellitus	23.5	30.9	38.8	32.7	40.5	49.5	47.5	39.1	38.7
Alzheimer's disease				*	*	13.0	20.8	20.6	20.6
Human immunodeficiency virus (HIV) disease					26.7	23.3	19.2	13.7	11.6
Unintentional injuries	79.9	74.0	78.3	57.6	43.8	37.7	38.8	31.6	31.3
Motor vehicle-related injuries	26.0	24.2	31.1	20.2	18.8	15.7	14.4	11.5	10.9
Poisoning	2.8	2.9	5.8	3.1	4.1	6.0	8.1	7.4	7.3
Suicide ⁶	4.5	5.0	6.2	6.5	7.1	5.5	5.2	5.1	5.2
Datetac	4.5	5.0	0.2	0.5	/.1	5.5	5.4	0.1	5.4

Homicide ⁶	28.3	26.0	44.0	39.0	36.3	20.5	21.1	18.1	17.7
American Indian or									
Alaska Native ⁷									
All causes				867.0	716.3	709.3	701.1	616.0	628.3
Diseases of heart				240.6	200.6	178.2	156.6	130.7	128.6
Ischemic heart disease				173.6	139.1	129.1	106.1	86.5	84.9
Cerebrovascular diseases				57.8	40.7	45.0	38.8	29.2	28.1
Malignant neoplasms				113.7	121.8	127.8	128.8	114.9	122.4
Trachea, bronchus, and lung Colon, rectum, and anus				20.7 9.5	30.9 12.0	32.3 13.4	35.3 12.6	29.5 13.0	33.1 11.7
Chronic lower respiratory diseases				9.5 14.2	25.4	32.8	31.6	30.7	33.8
Influenza and pneumonia				44.4	36.1	22.3	23.6	17.9	15.9
Chronic liver disease and cirrhosis				45.3	24.1	24.3	21.6	21.3	22.8
Diabetes mellitus				29.6	34.1	41.5	44.1	34.9	36.4
Alzheimer's disease				*	*	9.1	15.0	13.1	17.2
Human immunodeficiency virus (HIV) disease					1.8	2.2	2.5	1.7	1.6
Unintentional injuries				99.0	62.6	51.3	51.3	48.7	46.9
Motor vehicle-related injuries				54.5	32.5	27.3	22.6	17.2	15.7
Poisoning				2.3	3.2	4.7	8.6	13.8	13.0
Suicide ⁶				11.9	11.7	9.8	10.7	10.0	10.8
Homicide ⁶				15.5	10.4	6.8	6.8	5.9	5.7
Asian or Pacific Islander ⁷									
Asian or Pacific Islander									
All causes				589.9	582.0	506.4	459.6	424.6	424.3
Diseases of heart				202.1	181.7	146.0	119.7	103.8	100.9
Ischemic heart disease				168.2	139.6	109.6	85.6	70.7	68.7
Cerebrovascular diseases				66.1	56.9	52.9	40.8	33.0	33.2
Malignant neoplasms				126.1	134.2	121.9	113.2	106.8	108.9
Trachea, bronchus, and lung				28.4	30.2	28.1	26.3	25.2	24.8
Colon, rectum, and anus				16.4	14.4	12.7	11.5	10.5	11.4
Chronic lower respiratory diseases				12.9 24.0	19.4 31.4	18.6	15.9	14.3	13.9 14.4
Influenza and pneumonia Chronic liver disease and cirrhosis				24.0 6.1	5.2	19.7 3.5	16.8 3.6	15.0 3.3	3.2
Diabetes mellitus				12.6	14.6	16.4	17.3	16.2	15.5
Alzheimer's disease				*	*	5.5	8.5	10.2	10.9
Human immunodeficiency virus (HIV) disease					2.2	0.6	0.6	0.4	0.4
Unintentional injuries				27.0	23.9	17.9	18.1	14.9	15.0
Motor vehicle-related injuries				13.9	14.0	8.6	7.5	4.9	5.1
Poisoning				0.5	0.7	0.7	1.3	1.5	1.4
Suicide ⁶				7.8	6.7	5.5	5.1	5.9	6.2
Homicide ⁶				5.9	5.0	3.0	2.8	2.0	1.8
Hispanic or Latino ^{7,8}									
All causes					692.0	665.7	627.6	559.7	558.6
Diseases of heart					217.1	196.0	170.4	135.8	132.8
Ischemic heart disease					173.3	153.2	127.9	94.7	92.3
Cerebrovascular diseases					45.2	46.4	38.6	32.2	32.1
Malignant neoplasms					136.8	134.9	127.9	119.7	119.7
Trachea, bronchus, and lung					26.5	24.8	23.3	20.4	20.4
Colon, rectum, and anus					14.7	14.1	13.1	12.7	12.3
Chronic lower respiratory diseases					19.3	21.1	20.9	19.8	19.6

Influenza and pneumonia	 	 	29.7	20.6	18.5	15.6	13.7
Chronic liver disease and cirrhosis	 	 	18.3	16.5	14.1	14.0	13.7
Diabetes mellitus	 	 	28.2	36.9	35.4	27.0	27.1
Alzheimer's disease	 	 	20.2	10.4	15.6	16.9	18.5
Human immunodeficiency virus (HIV) disease			16.3	6.7	4.8	3.2	2.8
Unintentional injuries	 	 	34.6	30.1	31.8	26.3	25.8
Motor vehicle-related injuries	 	 	19.5	14.7	14.6	10.1	23.8 9.6
Poisoning	 	 	3.2	4.1	5.2	5.8	5.6
3							
Suicide ⁶	 	 	7.8	5.9	5.6	5.8	5.9
Homicide ⁶	 	 	16.2	7.5	7.4	6.0	5.3
White, not Hispanic or Latino ⁸							
······································							
All causes	 	 	914.5	855.5	810.1	755.1	755.0
Diseases of heart	 	 	319.7	255.5	215.5	182.9	179.9
Ischemic heart disease	 	 	251.9	186.6	148.3	118.9	115.0
Cerebrovascular diseases	 	 	63.5	59.0	46.2	38.3	37.8
Malignant neoplasms	 	 	215.4	200.6	187.8	177.4	176.5
Trachea, bronchus, and lung	 	 	60.3	58.2	55.5	51.6	50.8
Colon, rectum, and anus	 	 	24.6	20.5	17.4	15.8	15.5
Chronic lower respiratory diseases	 	 	39.2	47.2	47.7	47.1	46.6
Influenza and pneumonia	 	 	36.5	23.5	21.0	16.2	14.9
Chronic liver disease and cirrhosis	 	 	9.9	9.0	8.7	9.1	9.4
Diabetes mellitus	 	 	18.3	21.8	21.8	18.5	18.2
Alzheimer's disease	 	 	*	19.1	25.1	25.4	26.4
Human immunodeficiency virus (HIV) disease	 	 	7.4	2.2	1.8	1.2	1.1
Unintentional injuries	 	 	35.0	35.3	41.5	41.3	42.4
Motor vehicle-related injuries	 	 	18.2	15.6	15.7	12.2	11.9
Poisoning	 	 	2.0	4.6	9.1	12.6	13.3
Suicide ⁶	 	 	13.8	12.0	13.0	14.5	15.0
Homicide ⁶	 	 	4.0	2.8	2.7	2.6	2.5
HOMITCIUE	 	 	4.0	2.0	2.1	2.0	2.5

---Data not available.

*Data for Alzheimer's disease are only presented for data years 1999 and beyond due to large differences

in death rates caused by changes in the coding of the causes of death between ICD-9 and ICD-10.

See Appendix II, Cause of death; Comparability ratio; Table IV; Table V.

...Category not applicable.

¹Underlying cause of death code numbers are based on the applicable revision of the International Classification of Diseases (ICD) for data years shown.

See Appendix II, Cause of death; Table III; Table IV.

 $^2 \mbox{Includes}$ deaths of persons who were not residents of the 50 states

and the District of Columbia (D.C.).

³Underlying cause of death was coded according to the 6th Revision of the

ICD in 1950, 7th Revision in 1960, 8th Revision in 1970,

and 9th Revision in 1980-1998. See Appendix II, Cause of death; Table III; Table IV.

⁴Starting with 1999 data, cause of death is coded according to ICD-10.

See Appendix II, Cause of death; Comparability ratio; Table IV; Table V.

⁵Age-adjusted rates are calculated using the year 2000 standard population.

Prior to 2001, age-adjusted rates were calculated using standard million proportions based on rounded population numbers.

Starting with 2001 data, unrounded population numbers are used to calculate age-adjusted rates.

See Appendix II, Age adjustment.

⁶Figures for 2001 (in Excel spreadsheet on the Web) include September 11-related deaths for which death certificates were filed as of October 24, 2002.

See Appendix II, Cause of death; Table IV for terrorism-related ICD-10 codes.

 7 The race groups, white, black, Asian or Pacific Islander, and American Indian or Alaska Native,

include persons of Hispanic and non-Hispanic origin.

Persons of Hispanic origin may be of any race. Death rates for the American

Indian or Alaska Native, Asian or Pacific Islander, and Hispanic populations are known to be underestimated. See Appendix II, Race, for a discussion of sources of bias in death rates by race and Hispanic origin. ⁸Prior to 1997, data from states that did not report Hispanic origin on the death certificate were excluded. See Appendix II, Hispanic origin.

NOTES: Starting with Health, United States, 2003, rates for 1991-1999 were revised using intercensal population estimates based on the 1990 and 2000 censuses. For 2000, population estimates are bridged-race April 1 census counts. Starting with Health, United States, 2012, rates for 2001-2009 were revised using intercensal population estimates based on the 2000 and 2010 censuses. For 2010, population estimates are bridged-race April 1 census counts. See Appendix I, Population Census and Population Estimates. Starting with 2003 data, some states allowed the reporting of more than one race on the death certificate. The multiple-race data for these states were bridged to the single-race categories of the 1977 Office of Management and Budget standards, for comparability with other states. See Appendix II, Race. Data for additional years are available. See Appendix III. SOURCE: CDC/NCHS.

National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940-1960. Washington, DC: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual public-use Mortality Files; denominator data from national population estimates for race groups from Table 1 and unpublished Hispanic population estimates for 1985-1996 prepared by the Housing and Household Economic Statistics Division, U.S. Census Bureau; Murphy SL, Xu JQ, Kochanek KD. Deaths: Final data for 2010. National vital statistics reports; vol 61 no 4. Hyattsville, MD: NCHS; 2012. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04.pdf. See Appendix I, National Vital Statistics System (NVSS).

Health, United States 2011 web updates