

Table 29 (page 1 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	1950 ²	1960 ²	1970	1980	1990	1995	2000 ³	2001
All persons								
	Age-adjusted death rate per 100,000 population ⁴							
All causes	1,446.0	1,339.2	1,222.6	1,039.1	938.7	909.8	869.0	854.5
Diseases of heart	586.8	559.0	492.7	412.1	321.8	293.4	257.6	247.8
Ischemic heart disease	---	---	---	345.2	249.6	219.7	186.8	177.8
Cerebrovascular diseases	180.7	177.9	147.7	96.2	65.3	63.1	60.9	57.9
Malignant neoplasms	193.9	193.9	198.6	207.9	216.0	209.9	199.6	196.0
Trachea, bronchus, and lung	15.0	24.1	37.1	49.9	59.3	58.4	56.1	55.3
Colon, rectum, and anus	---	30.3	28.9	27.4	24.5	22.5	20.8	20.1
Prostate ⁵	28.6	28.7	28.8	32.8	38.4	37.0	30.4	29.1
Breast ⁶	31.9	31.7	32.1	31.9	33.3	30.5	26.8	26.0
Chronic lower respiratory diseases	---	---	---	28.3	37.2	40.1	44.2	43.7
Influenza and pneumonia	48.1	53.7	41.7	31.4	36.8	33.4	23.7	22.0
Chronic liver disease and cirrhosis	11.3	13.3	17.8	15.1	11.1	9.9	9.5	9.5
Diabetes mellitus	23.1	22.5	24.3	18.1	20.7	23.2	25.0	25.3
Human immunodeficiency virus (HIV) disease	---	---	---	---	10.2	16.2	5.2	5.0
Unintentional injuries	78.0	62.3	60.1	46.4	36.3	34.4	34.9	35.7
Motor vehicle-related injuries	24.6	23.1	27.6	22.3	18.5	16.3	15.4	15.3
Suicide ⁷	13.2	12.5	13.1	12.2	12.5	11.8	10.4	10.7
Homicide ⁷	5.1	5.0	8.8	10.4	9.4	8.3	5.9	7.1
Male								
All causes	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,143.9	1,053.8	1,029.1
Diseases of heart	697.0	687.6	634.0	538.9	412.4	371.0	320.0	305.4
Ischemic heart disease	---	---	---	459.7	328.2	286.5	241.4	228.5
Cerebrovascular diseases	186.4	186.1	157.4	102.2	68.5	65.9	62.4	59.0
Malignant neoplasms	208.1	225.1	247.6	271.2	280.4	267.5	248.9	243.7
Trachea, bronchus, and lung	24.6	43.6	67.5	85.2	91.1	84.2	76.7	75.2
Colon, rectum, and anus	---	31.8	32.3	32.8	30.4	27.4	25.1	24.2
Prostate	28.6	28.7	28.8	32.8	38.4	37.0	30.4	29.1
Chronic lower respiratory diseases	---	---	---	49.9	55.4	54.8	55.8	54.0
Influenza and pneumonia	55.0	65.8	54.0	42.1	47.8	42.8	28.9	26.6
Chronic liver disease and cirrhosis	15.0	18.5	24.8	21.3	15.9	14.2	13.4	13.2
Diabetes mellitus	18.8	19.9	23.0	18.1	21.7	25.0	27.8	28.1
Human immunodeficiency virus (HIV) disease	---	---	---	---	18.5	27.3	7.9	7.5
Unintentional injuries	101.8	85.5	87.4	69.0	52.9	49.6	49.3	50.2
Motor vehicle-related injuries	38.5	35.4	41.5	33.6	26.5	22.8	21.7	21.8
Suicide ⁷	21.2	20.0	19.8	19.9	21.5	20.3	17.7	18.2
Homicide ⁷	7.9	7.5	14.3	16.6	14.8	12.8	9.0	10.8
Female								
All causes	1,236.0	1,105.3	971.4	817.9	750.9	739.4	731.4	721.8
Diseases of heart	484.7	447.0	381.6	320.8	257.0	236.6	210.9	203.9
Ischemic heart disease	---	---	---	263.1	193.9	171.3	146.5	139.9
Cerebrovascular diseases	175.8	170.7	140.0	91.7	62.6	60.5	59.1	56.4
Malignant neoplasms	182.3	168.7	163.2	166.7	175.7	173.6	167.6	164.7
Trachea, bronchus, and lung	5.8	7.5	13.1	24.4	37.1	40.4	41.3	41.0
Colon, rectum, and anus	---	29.1	26.5	23.8	20.6	19.1	17.7	17.2
Breast	31.9	31.7	32.1	31.9	33.3	30.5	26.8	26.0
Chronic lower respiratory diseases	---	---	---	14.9	26.6	31.8	37.4	37.6
Influenza and pneumonia	41.9	43.8	32.7	25.1	30.5	28.1	20.7	19.2
Chronic liver disease and cirrhosis	7.8	8.7	11.9	9.9	7.1	6.2	6.2	6.2
Diabetes mellitus	27.0	24.7	25.1	18.0	19.9	21.8	23.0	23.1
Human immunodeficiency virus (HIV) disease	---	---	---	---	2.2	5.3	2.5	2.5
Unintentional injuries	54.0	40.0	35.1	26.1	21.5	21.0	22.0	22.5
Motor vehicle-related injuries	11.5	11.7	14.9	11.8	11.0	10.3	9.5	9.3
Suicide ⁷	5.6	5.6	7.4	5.7	4.8	4.3	4.0	4.0
Homicide ⁷	2.4	2.6	3.7	4.4	4.0	3.7	2.8	3.3

See footnotes at end of table.

Table 29 (page 2 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	1950 ²	1960 ²	1970	1980	1990	1995	2000 ³	2001
White ⁸								
Age-adjusted death rate per 100,000 population ⁴								
All causes	1,410.8	1,311.3	1,193.3	1,012.7	909.8	882.3	849.8	836.5
Diseases of heart	584.8	559.0	492.2	409.4	317.0	288.6	253.4	243.5
Ischemic heart disease	---	---	---	347.6	249.7	219.1	185.6	176.5
Cerebrovascular diseases	175.5	172.7	143.5	93.2	62.8	60.7	58.8	55.8
Malignant neoplasms	194.6	193.1	196.7	204.2	211.6	206.2	197.2	193.9
Trachea, bronchus, and lung	15.2	24.0	36.7	49.2	58.6	58.1	56.2	55.6
Colon, rectum, and anus	---	30.9	29.2	27.4	24.1	22.0	20.3	19.6
Prostate ⁵	28.4	27.7	27.4	30.5	35.5	34.2	27.8	26.6
Breast ⁶	32.4	32.0	32.5	32.1	33.2	30.1	26.3	25.5
Chronic lower respiratory diseases	---	---	---	29.3	38.3	41.5	46.0	45.6
Influenza and pneumonia	44.8	50.4	39.8	30.9	36.4	33.0	23.5	21.7
Chronic liver disease and cirrhosis	11.5	13.2	16.6	13.9	10.5	9.7	9.6	9.6
Diabetes mellitus	22.9	21.7	22.9	16.7	18.8	20.9	22.8	23.0
Human immunodeficiency virus (HIV) disease	---	---	---	---	8.3	11.4	2.8	2.6
Unintentional injuries	77.0	60.4	57.8	45.3	35.5	33.9	35.1	36.0
Motor vehicle-related injuries	24.4	22.9	27.1	22.6	18.5	16.3	15.6	15.6
Suicide ⁷	13.9	13.1	13.8	13.0	13.4	12.6	11.3	11.7
Homicide ⁷	2.6	2.7	4.7	6.7	5.5	5.0	3.6	4.9
Black or African American ⁸								
All causes	1,722.1	1,577.5	1,518.1	1,314.8	1,250.3	1,213.9	1,121.4	1,101.2
Diseases of heart	586.7	548.3	512.0	455.3	391.5	363.8	324.8	316.9
Ischemic heart disease	---	---	---	334.5	267.0	244.9	218.3	211.6
Cerebrovascular diseases	233.6	235.2	197.1	129.1	91.6	86.9	81.9	78.8
Malignant neoplasms	176.4	199.1	225.3	256.4	279.5	267.7	248.5	243.1
Trachea, bronchus, and lung	11.1	23.7	41.3	59.7	72.4	69.0	64.0	62.5
Colon, rectum, and anus	---	22.8	26.1	28.3	30.6	29.3	28.2	27.6
Prostate ⁵	30.9	41.2	48.5	61.1	77.0	76.6	68.1	66.1
Breast ⁶	25.3	27.9	28.9	31.7	38.1	38.0	34.5	34.4
Chronic lower respiratory diseases	---	---	---	19.2	28.1	30.1	31.6	30.9
Influenza and pneumonia	76.7	81.1	57.2	34.4	39.4	36.4	25.6	24.1
Chronic liver disease and cirrhosis	9.0	13.6	28.1	25.0	16.5	12.0	9.4	9.3
Diabetes mellitus	23.5	30.9	38.8	32.7	40.5	46.7	49.5	49.2
Human immunodeficiency virus (HIV) disease	---	---	---	---	26.7	54.2	23.3	22.8
Unintentional injuries	79.9	74.0	78.3	57.6	43.8	41.0	37.7	37.6
Motor vehicle-related injuries	26.0	24.2	31.1	20.2	18.8	16.7	15.7	15.4
Suicide ⁷	4.5	5.0	6.2	6.5	7.1	6.8	5.5	5.5
Homicide ⁷	28.3	26.0	44.0	39.0	36.3	29.7	20.5	21.2
American Indian or Alaska Native ⁹								
All causes	---	---	---	867.0	716.3	771.2	709.3	686.7
Diseases of heart	---	---	---	240.6	200.6	204.6	178.2	159.6
Ischemic heart disease	---	---	---	173.6	139.1	141.4	129.1	114.0
Cerebrovascular diseases	---	---	---	57.8	40.7	48.6	45.0	41.3
Malignant neoplasms	---	---	---	113.7	121.8	138.2	127.8	131.0
Trachea, bronchus, and lung	---	---	---	20.7	30.9	37.4	32.3	34.2
Colon, rectum, and anus	---	---	---	9.5	12.0	14.9	13.4	12.0
Prostate ⁵	---	---	---	20.7	17.8	21.7	19.6	19.0
Breast ⁶	---	---	---	10.8	13.7	15.0	13.6	11.8
Chronic lower respiratory diseases	---	---	---	14.2	25.4	27.6	32.8	30.0
Influenza and pneumonia	---	---	---	44.4	36.1	36.1	22.3	22.5
Chronic liver disease and cirrhosis	---	---	---	45.3	24.1	27.4	24.3	22.6
Diabetes mellitus	---	---	---	29.6	34.1	45.9	41.5	40.4
Human immunodeficiency virus (HIV) disease	---	---	---	---	1.8	6.5	2.2	2.7
Unintentional injuries	---	---	---	99.0	62.6	55.3	51.3	51.3
Motor vehicle-related injuries	---	---	---	54.5	32.5	29.1	27.3	25.9
Suicide ⁷	---	---	---	11.9	11.7	10.6	9.8	10.5
Homicide ⁷	---	---	---	15.5	10.4	9.9	6.8	6.8

See footnotes at end of table.

Table 29 (page 3 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	<i>1950</i> ²	<i>1960</i> ²	<i>1970</i>	<i>1980</i>	<i>1990</i>	<i>1995</i>	<i>2000</i> ³	<i>2001</i>
Asian or Pacific Islander ⁸								
Age-adjusted death rate per 100,000 population ⁴								
All causes	---	---	---	589.9	582.0	554.8	506.4	492.1
Diseases of heart	---	---	---	202.1	181.7	171.3	146.0	137.6
Ischemic heart disease	---	---	---	168.2	139.6	128.0	109.6	103.0
Cerebrovascular diseases	---	---	---	66.1	56.9	55.2	52.9	51.2
Malignant neoplasms	---	---	---	126.1	134.2	131.8	121.9	119.5
Trachea, bronchus, and lung	---	---	---	28.4	30.2	29.9	28.1	28.2
Colon, rectum, and anus	---	---	---	16.4	14.4	14.0	12.7	13.2
Prostate ⁵	---	---	---	10.2	16.8	18.0	12.5	11.6
Breast ⁶	---	---	---	11.9	13.7	13.9	12.3	12.9
Chronic lower respiratory diseases	---	---	---	12.9	19.4	19.3	18.6	17.7
Influenza and pneumonia	---	---	---	24.0	31.4	29.1	19.7	19.0
Chronic liver disease and cirrhosis	---	---	---	6.1	5.2	3.9	3.5	3.5
Diabetes mellitus	---	---	---	12.6	14.6	16.8	16.4	16.9
Human immunodeficiency virus (HIV) disease	---	---	---	---	2.2	3.2	0.6	0.7
Unintentional injuries	---	---	---	27.0	23.9	20.2	17.9	17.4
Motor vehicle-related injuries	---	---	---	13.9	14.0	11.4	8.6	8.1
Suicide ⁷	---	---	---	7.8	6.7	6.7	5.5	5.4
Homicide ⁷	---	---	---	5.9	5.0	4.7	3.0	4.2
Hispanic or Latino ^{8,9}								
All causes	---	---	---	---	692.0	700.2	665.7	658.7
Diseases of heart	---	---	---	---	217.1	211.0	196.0	192.2
Ischemic heart disease	---	---	---	---	173.3	166.4	153.2	149.9
Cerebrovascular diseases	---	---	---	---	45.2	46.3	46.4	44.9
Malignant neoplasms	---	---	---	---	136.8	138.5	134.9	132.3
Trachea, bronchus, and lung	---	---	---	---	26.5	25.9	24.8	23.8
Colon, rectum, and anus	---	---	---	---	14.7	14.1	14.1	14.1
Prostate ⁵	---	---	---	---	23.3	27.4	21.6	23.5
Breast ⁶	---	---	---	---	19.5	18.7	16.9	16.3
Chronic lower respiratory diseases	---	---	---	---	19.3	22.6	21.1	20.7
Influenza and pneumonia	---	---	---	---	29.7	26.2	20.6	20.5
Chronic liver disease and cirrhosis	---	---	---	---	18.3	17.4	16.5	15.8
Diabetes mellitus	---	---	---	---	28.2	35.7	36.9	36.7
Human immunodeficiency virus (HIV) disease	---	---	---	---	16.3	24.9	6.7	6.2
Unintentional injuries	---	---	---	---	34.6	32.2	30.1	30.7
Motor vehicle-related injuries	---	---	---	---	19.5	16.4	14.7	15.0
Suicide ⁷	---	---	---	---	7.8	7.2	5.9	5.7
Homicide ⁷	---	---	---	---	16.2	12.5	7.5	8.3

See footnotes at end of table.

Table 29 (page 4 of 4). Age-adjusted death rates for selected causes of death, according to sex, race, and Hispanic origin: United States, selected years 1950–2001

[Data are based on death certificates]

<i>Sex, race, Hispanic origin, and cause of death</i> ¹	1950 ²	1960 ²	1970	1980	1990	1995	2000 ³	2001
White, not Hispanic or Latino ⁹	Age-adjusted death rate per 100,000 population ⁴							
All causes	---	---	---	---	914.5	882.3	855.5	842.9
Diseases of heart	---	---	---	---	319.7	289.9	255.5	245.6
Ischemic heart disease	---	---	---	---	251.9	219.9	186.6	177.5
Cerebrovascular diseases	---	---	---	---	63.5	60.8	59.0	56.0
Malignant neoplasms	---	---	---	---	215.4	208.9	200.6	197.4
Trachea, bronchus, and lung	---	---	---	---	60.3	59.6	58.2	57.7
Colon, rectum, and anus	---	---	---	---	24.6	22.3	20.5	19.9
Prostate ⁵	---	---	---	---	36.1	34.4	28.0	26.7
Breast ⁶	---	---	---	---	33.9	30.6	26.8	26.0
Chronic lower respiratory diseases	---	---	---	---	39.2	42.1	47.2	47.0
Influenza and pneumonia	---	---	---	---	36.5	33.0	23.5	21.7
Chronic liver disease and cirrhosis	---	---	---	---	9.9	9.0	9.0	9.0
Diabetes mellitus	---	---	---	---	18.3	20.1	21.8	22.1
Human immunodeficiency virus (HIV) disease	---	---	---	---	7.4	9.8	2.2	2.1
Unintentional injuries	---	---	---	---	35.0	33.4	35.3	36.2
Motor vehicle-related injuries	---	---	---	---	18.2	16.1	15.6	15.5
Suicide ⁷	---	---	---	---	13.8	13.1	12.0	12.5
Homicide ⁷	---	---	---	---	4.0	3.6	2.8	4.0

--- Data not available.

¹Underlying cause of death code numbers are based on the applicable revision of the *International Classification of Diseases* (ICD) for data years shown. For the period 1980–98, causes were coded using ICD–9 codes that are most nearly comparable with the 113 cause list for ICD–10. See Appendix II, tables IV and V.

²Includes deaths of persons who were not residents of the 50 States and the District of Columbia.

³Starting with 1999 data, cause of death is coded according to ICD–10. To estimate change between 1998 and 1999, compare the 1999 rate with the comparability-modified rate for 1998. See Appendix II, Comparability ratio and tables V and VI.

⁴Age-adjusted rates are calculated using the year 2000 standard population starting with *Health, United States, 2001*. See Appendix II, Age adjustment.

⁵Rate for male population only.

⁶Rate for female population only.

⁷Figures for 2001 include September 11 related deaths for which death certificates were filed as of October 24, 2002. See updated Appendix II table V for new terrorism-related ICD–10 codes.

⁸The 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 and Asian or Pacific Islander 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.

⁹Prior to 1997, excludes data from States lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Population estimates used to compute rates for 1991–2000 differ from those used previously. Starting with *Health, United States, 2003*, rates for 1991–99 were revised using intercensal population estimates based on Census 2000. Rates for 2000 were revised based on Census 2000 counts. Rates for 2001 were computed using 2000-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Data for additional years are available. See Appendix III.

SOURCES: Centers for Disease Control and Prevention, National Center for Health Statistics, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. Washington: U.S. Government Printing Office. 1968; numerator data from National Vital Statistics System, annual mortality files; denominator data from national population estimates for race groups from table 1 and unpublished Hispanic population estimates for 1985–96 prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census; additional mortality tables available at www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm; Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports. Vol 52 no 3. Hyattsville, Maryland: National Center for Health Statistics. 2003.