

Table 26. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950-2007

(Data are based on death certificates)

Sex, race, Hispanic origin, and cause of death ¹	1950 ^{2,3}	1960 ^{2,3}	1970 ³	1980 ³	1990	2000 ⁴	2005 ⁴	2006 ⁴	2007 ⁴
All persons									
Age-adjusted death rate per 100,000 population ⁵									
All causes.....	1,446.0	1,339.2	1,222.6	1,039.1	938.7	869.0	798.8	776.5	760.2
Diseases of heart.....	588.8	559.0	492.7	412.1	321.8	257.6	211.1	200.2	190.9
Ischemic heart disease.....	---	---	---	345.2	249.6	186.8	144.4	134.9	126.0
Cerebrovascular diseases.....	180.7	177.9	147.7	96.2	65.3	60.9	46.6	43.6	42.2
Malignant neoplasms.....	193.9	193.9	198.6	207.9	216.0	199.6	183.8	180.7	178.4
Trachea, bronchus, and lung.....	15.0	24.1	37.1	49.9	59.3	56.1	52.6	51.5	50.6
Colon, rectum, and anus.....	---	30.3	28.9	27.4	24.5	20.8	17.5	17.2	16.9
Chronic lower respiratory diseases.....	---	---	---	28.3	37.2	44.2	43.2	40.5	40.8
Influenza and pneumonia.....	48.1	53.7	41.7	31.4	36.8	23.7	20.3	17.8	16.2
Chronic liver disease and cirrhosis.....	11.3	13.3	17.8	15.1	11.1	9.5	9.0	8.8	9.1
Diabetes mellitus.....	23.1	22.5	24.3	18.1	20.7	25.0	24.6	23.3	22.5
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	10.2	5.2	4.2	4.0	3.7
Unintentional injuries.....	78.0	62.3	60.1	46.4	36.3	34.9	39.1	39.8	40.0
Motor vehicle-related injuries.....	24.6	23.1	27.6	22.3	18.5	15.4	15.2	15.0	14.4
Poisoning.....	2.5	1.7	2.8	1.9	2.3	4.5	7.9	9.1	9.8
Suicide ⁶	13.2	12.5	13.1	12.2	12.5	10.4	10.9	10.9	11.3
Homicide ⁶	5.1	5.0	8.8	10.4	9.4	5.9	6.1	6.2	6.1
Male									
All causes.....	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,053.8	951.1	924.8	905.6
Diseases of heart.....	699.0	687.6	634.0	538.9	412.4	320.0	260.9	248.5	237.7
Ischemic heart disease.....	---	---	---	459.7	328.2	241.4	187.4	176.5	165.4
Cerebrovascular diseases.....	186.4	186.1	157.4	102.2	68.5	62.4	46.9	43.9	42.5
Malignant neoplasms.....	208.1	225.1	247.6	271.2	280.4	248.9	225.1	220.1	217.5
Trachea, bronchus, and lung.....	24.6	43.6	67.5	85.2	91.1	76.7	69.0	67.0	65.1
Colon, rectum, and anus.....	---	31.8	32.3	32.8	30.4	25.1	20.9	20.5	20.1
Prostate.....	28.6	28.7	28.8	32.8	38.4	30.4	24.5	23.5	23.5
Chronic lower respiratory diseases.....	---	---	---	49.9	55.4	55.8	51.2	47.6	48.0
Influenza and pneumonia.....	55.0	65.8	54.0	42.1	47.8	28.9	23.9	21.2	19.3
Chronic liver disease and cirrhosis.....	15.0	18.5	24.8	21.3	15.9	13.4	12.4	12.1	12.7
Diabetes mellitus.....	18.8	19.9	23.0	18.1	21.7	27.8	28.4	27.4	26.4
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	18.5	7.9	6.2	5.9	5.4
Unintentional injuries.....	101.8	85.5	87.4	69.0	52.9	49.3	54.2	55.2	55.2
Motor vehicle-related injuries.....	38.5	35.4	41.5	33.6	26.5	21.7	21.7	21.4	20.9
Poisoning.....	3.3	2.3	3.9	2.7	3.5	6.6	10.7	12.4	13.0
Suicide ⁶	21.2	20.0	19.8	19.9	21.5	17.7	18.0	18.0	18.4
Homicide ⁶	7.9	7.5	14.3	16.6	14.8	9.0	9.6	9.7	9.6
Female									
All causes.....	1,236.0	1,105.3	971.4	817.9	750.9	731.4	677.6	657.8	643.4
Diseases of heart.....	486.6	447.0	381.6	320.8	257.0	210.9	172.3	162.2	154.0
Ischemic heart disease.....	---	---	---	263.1	193.9	146.5	111.7	103.1	95.7
Cerebrovascular diseases.....	175.8	170.7	140.0	91.7	62.6	59.1	45.6	42.6	41.3
Malignant neoplasms.....	182.3	168.7	163.2	166.7	175.7	167.6	155.6	153.6	151.3
Trachea, bronchus, and lung.....	5.8	7.5	13.1	24.4	37.1	41.3	40.5	40.0	40.0

Colon, rectum, and anus.....	---	29.1	26.5	23.8	20.6	17.7	14.8	14.7	14.4
Breast.....	31.9	31.7	32.1	31.9	33.3	26.8	24.1	23.5	22.9
Chronic lower respiratory diseases.....	---	---	---	14.9	26.6	37.4	38.1	35.9	36.0
Influenza and pneumonia.....	41.9	43.8	32.7	25.1	30.5	20.7	17.9	15.5	14.2
Chronic liver disease and cirrhosis.....	7.8	8.7	11.9	9.9	7.1	6.2	5.8	5.8	5.9
Diabetes mellitus.....	27.0	24.7	25.1	18.0	19.9	23.0	21.6	20.1	19.5
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	2.2	2.5	2.3	2.2	2.1
Unintentional injuries.....	54.0	40.0	35.1	26.1	21.5	22.0	25.0	25.5	25.8
Motor vehicle-related injuries.....	11.5	11.7	14.9	11.8	11.0	9.5	8.9	8.8	8.2
Poisoning.....	1.7	1.1	1.8	1.3	1.2	2.5	5.1	5.9	6.6
Suicide ⁶	5.6	5.6	7.4	5.7	4.8	4.0	4.4	4.5	4.7
Homicide ⁶	2.4	2.6	3.7	4.4	4.0	2.8	2.5	2.5	2.5

White⁷

All causes.....	1,410.8	1,311.3	1,193.3	1,012.7	909.8	849.8	785.3	764.4	749.4
Diseases of heart.....	586.0	559.0	492.2	409.4	317.0	253.4	207.8	197.0	187.8
Ischemic heart disease.....	---	---	---	347.6	249.7	185.6	143.8	134.2	125.5
Cerebrovascular diseases.....	175.5	172.7	143.5	93.2	62.8	58.8	44.7	41.7	40.5
Malignant neoplasms.....	194.6	193.1	196.7	204.2	211.6	197.2	182.6	179.9	177.5
Trachea, bronchus, and lung.....	15.2	24.0	36.7	49.2	58.6	56.2	53.1	52.1	51.2
Colon, rectum, and anus.....	---	30.9	29.2	27.4	24.1	20.3	16.9	16.7	16.4
Chronic lower respiratory diseases.....	---	---	---	29.3	38.3	46.0	45.4	42.6	43.0
Influenza and pneumonia.....	44.8	50.4	39.8	30.9	36.4	23.5	20.2	17.7	16.0
Chronic liver disease and cirrhosis.....	11.5	13.2	16.6	13.9	10.5	9.6	9.2	9.1	9.4
Diabetes mellitus.....	22.9	21.7	22.9	16.7	18.8	22.8	22.5	21.2	20.5
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	8.3	2.8	2.2	2.1	1.9
Unintentional injuries.....	77.0	60.4	57.8	45.3	35.5	35.1	40.1	41.0	41.5
Motor vehicle-related injuries.....	24.4	22.9	27.1	22.6	18.5	15.6	15.6	15.4	14.8
Poisoning.....	2.4	1.6	2.4	1.8	2.1	4.5	8.4	9.7	10.6
Suicide ⁶	13.9	13.1	13.8	13.0	13.4	11.3	12.0	12.1	12.5
Homicide ⁶	2.6	2.7	4.7	6.7	5.5	3.6	3.7	3.7	3.7

Black or African American⁷

All causes.....	1,722.1	1,577.5	1,518.1	1,314.8	1,250.3	1,121.4	1,016.5	982.0	958.0
Diseases of heart.....	588.7	548.3	512.0	455.3	391.5	324.8	271.3	257.7	247.3
Ischemic heart disease.....	---	---	---	334.5	267.0	218.3	171.3	161.6	150.6
Cerebrovascular diseases.....	233.6	235.2	197.1	129.1	91.6	81.9	65.2	61.6	60.3
Malignant neoplasms.....	176.4	199.1	225.3	256.4	279.5	248.5	222.7	217.4	215.5
Trachea, bronchus, and lung.....	11.1	23.7	41.3	59.7	72.4	64.0	58.4	56.8	55.6
Colon, rectum, and anus.....	---	22.8	26.1	28.3	30.6	28.2	24.8	24.3	23.5
Chronic lower respiratory diseases.....	---	---	---	19.2	28.1	31.6	30.6	28.1	28.1
Influenza and pneumonia.....	76.7	81.1	57.2	34.4	39.4	25.6	21.7	19.6	18.4
Chronic liver disease and cirrhosis.....	9.0	13.6	28.1	25.0	16.5	9.4	7.7	7.0	7.4
Diabetes mellitus.....	23.5	30.9	38.8	32.7	40.5	49.5	46.9	45.1	42.8
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	26.7	23.3	19.4	18.6	17.3
Unintentional injuries.....	79.9	74.0	78.3	57.6	43.8	37.7	38.7	38.3	36.6
Motor vehicle-related injuries.....	26.0	24.2	31.1	20.2	18.8	15.7	14.5	14.6	14.1
Poisoning.....	2.8	2.9	5.8	3.1	4.1	6.0	8.2	9.4	8.6
Suicide ⁶	4.5	5.0	6.2	6.5	7.1	5.5	5.2	5.1	5.0
Homicide ⁶	28.3	26.0	44.0	39.0	36.3	20.5	21.1	21.6	21.1

American Indian or
Alaska Native⁷

All causes.....	---	---	---	867.0	716.3	709.3	663.4	642.1	627.2
Diseases of heart.....	---	---	---	240.6	200.6	178.2	141.8	139.4	127.3
Ischemic heart disease.....	---	---	---	173.6	139.1	129.1	96.2	97.4	86.7
Cerebrovascular diseases.....	---	---	---	57.8	40.7	45.0	34.8	29.4	29.8
Malignant neoplasms.....	---	---	---	113.7	121.8	127.8	123.2	119.4	117.8
Trachea, bronchus, and lung.....	---	---	---	20.7	30.9	32.3	34.1	31.2	32.7
Colon, rectum, and anus.....	---	---	---	9.5	12.0	13.4	12.0	11.2	11.5
Chronic lower respiratory diseases.....	---	---	---	14.2	25.4	32.8	29.1	27.4	30.9
Influenza and pneumonia.....	---	---	---	44.4	36.1	22.3	20.4	14.2	13.8
Chronic liver disease and cirrhosis.....	---	---	---	45.3	24.1	24.3	22.6	22.1	24.8
Diabetes mellitus.....	---	---	---	29.6	34.1	41.5	41.5	39.6	37.2
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	1.8	2.2	2.7	2.4	2.6
Unintentional injuries.....	---	---	---	99.0	62.6	51.3	54.7	56.7	55.7
Motor vehicle-related injuries.....	---	---	---	54.5	32.5	27.3	24.8	26.7	23.7
Poisoning.....	---	---	---	2.3	3.2	4.7	9.4	10.4	11.6
Suicide ⁶	---	---	---	11.9	11.7	9.8	11.7	11.6	11.5
Homicide ⁶	---	---	---	15.5	10.4	6.8	7.7	7.5	6.5

Asian or Pacific Islander⁷

All causes.....	---	---	---	589.9	582.0	506.4	440.2	428.6	415.0
Diseases of heart.....	---	---	---	202.1	181.7	146.0	113.3	108.5	101.2
Ischemic heart disease.....	---	---	---	168.2	139.6	109.6	81.0	77.1	71.0
Cerebrovascular diseases.....	---	---	---	66.1	56.9	52.9	38.6	37.0	34.3
Malignant neoplasms.....	---	---	---	126.1	134.2	121.9	110.5	106.5	106.7
Trachea, bronchus, and lung.....	---	---	---	28.4	30.2	28.1	25.7	25.2	25.3
Colon, rectum, and anus.....	---	---	---	16.4	14.4	12.7	11.2	10.9	10.9
Chronic lower respiratory diseases.....	---	---	---	12.9	19.4	18.6	14.9	14.4	13.4
Influenza and pneumonia.....	---	---	---	24.0	31.4	19.7	15.5	14.7	13.6
Chronic liver disease and cirrhosis.....	---	---	---	6.1	5.2	3.5	3.6	3.5	3.3
Diabetes mellitus.....	---	---	---	12.6	14.6	16.4	16.6	15.8	16.2
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	2.2	0.6	0.6	0.6	0.5
Unintentional injuries.....	---	---	---	27.0	23.9	17.9	17.9	16.9	17.0
Motor vehicle-related injuries.....	---	---	---	13.9	14.0	8.6	7.6	7.5	7.2
Poisoning.....	---	---	---	0.5	0.7	0.7	1.3	1.4	1.5
Suicide ⁶	---	---	---	7.8	6.7	5.5	5.2	5.6	6.1
Homicide ⁶	---	---	---	5.9	5.0	3.0	2.9	2.8	2.3

Hispanic or Latino^{7,8}

All causes.....	---	---	---	---	692.0	665.7	590.7	564.0	546.1
Diseases of heart.....	---	---	---	---	217.1	196.0	157.3	144.1	136.0
Ischemic heart disease.....	---	---	---	---	173.3	153.2	118.0	106.4	97.8
Cerebrovascular diseases.....	---	---	---	---	45.2	46.4	35.7	34.2	32.7
Malignant neoplasms.....	---	---	---	---	136.8	134.9	122.8	118.0	116.2
Trachea, bronchus, and lung.....	---	---	---	---	26.5	24.8	22.4	20.7	20.9
Colon, rectum, and anus.....	---	---	---	---	14.7	14.1	12.4	12.6	12.0
Chronic lower respiratory diseases.....	---	---	---	---	19.3	21.1	19.3	17.3	17.5
Influenza and pneumonia.....	---	---	---	---	29.7	20.6	16.8	15.0	13.1
Chronic liver disease and cirrhosis.....	---	---	---	---	18.3	16.5	13.9	13.3	13.8
Diabetes mellitus.....	---	---	---	---	28.2	36.9	33.6	29.9	28.9
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	16.3	6.7	4.7	4.5	4.1
Unintentional injuries.....	---	---	---	---	34.6	30.1	31.3	31.5	30.1
Motor vehicle-related injuries.....	---	---	---	---	19.5	14.7	14.7	14.6	13.3

Poisoning.....	---	---	---	---	3.2	4.1	5.2	5.7	5.8
Suicide ⁶	---	---	---	---	7.8	5.9	5.6	5.3	6.0
Homicide ⁶	---	---	---	---	16.2	7.5	7.5	7.3	6.9

White, not Hispanic or Latino⁸

All causes.....	---	---	---	---	914.5	855.5	796.6	777.0	763.3
Diseases of heart.....	---	---	---	---	319.7	255.5	210.7	200.3	191.4
Ischemic heart disease.....	---	---	---	---	251.9	186.6	145.2	136.0	127.4
Cerebrovascular diseases.....	---	---	---	---	63.5	59.0	45.0	41.9	40.7
Malignant neoplasms.....	---	---	---	---	215.4	200.6	187.0	184.6	182.3
Trachea, bronchus, and lung.....	---	---	---	---	60.3	58.2	55.5	54.7	53.9
Colon, rectum, and anus.....	---	---	---	---	24.6	20.5	17.2	17.0	16.7
Chronic lower respiratory diseases.....	---	---	---	---	39.2	47.2	47.2	44.4	44.9
Influenza and pneumonia.....	---	---	---	---	36.5	23.5	20.4	17.8	16.2
Chronic liver disease and cirrhosis.....	---	---	---	---	9.9	9.0	8.7	8.6	8.9
Diabetes mellitus.....	---	---	---	---	18.3	21.8	21.5	20.4	19.8
Human immunodeficiency virus (HIV) disease.....	---	---	---	---	7.4	2.2	1.8	1.7	1.5
Unintentional injuries.....	---	---	---	---	35.0	35.3	41.0	42.1	43.0
Motor vehicle-related injuries.....	---	---	---	---	18.2	15.6	15.5	15.3	14.9
Poisoning.....	---	---	---	---	2.0	4.6	9.0	10.5	11.6
Suicide ⁶	---	---	---	---	13.8	12.0	12.9	13.2	13.5
Homicide ⁶	---	---	---	---	4.0	2.8	2.7	2.7	2.8

---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 1980-1998, causes were coded using ICD-9 codes that are most nearly comparable with the 113 cause list for ICD-10. See Appendix II, Cause of death; Tables IV and V.

²Includes 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 International Classification of Diseases (ICD) in 1950, 7th Revision in 1960, 8th Revision in 1970, and 9th Revision in 1980-1998. See Appendix II, Cause of death; Tables IV and V.

⁴Starting with 1999 data, cause of death is coded according to ICD-10. See Appendix II, Cause of death, Table V; Comparability ratio, Table VI.

⁵Age-adjusted rates are calculated using the year 2000 standard population. Prior to 2003, age-adjusted rates were calculated using standard million proportions based on rounded population numbers. Starting with 2003 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 V for terrorism-related ICD-10 codes.

⁷The 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.

⁸Prior to 1997, excludes data from states lacking an Hispanic-origin item on the death certificate. See Appendix II, Hispanic origin.

NOTES: Data for 1950 have been revised and differ from previous editions of *Health, United States*. Starting with *Health, United States, 2003*, rates for 1991-1999 were revised using intercensal population estimates based on the 2000 census. Rates for 2000

were revised based on 2000 census counts.
Rates for 2001 and later years were computed using 2000-based postcensal estimates.
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 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;
additional mortality tables are available from:
http://www.cdc.gov/nchs/nvss/mortality_tables.htm;
Xu JQ, Kochanek KD, Murphy SL, Tejada-Vera B. Deaths: Final data for 2007. National vital statistics reports;
vol 58 no 19. Hyattsville, MD: NCHS; 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58nvsr58_19.pdf.

Health, United States 2009 Web Update