

**Table 17. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2016**

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#017>.

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>1</sup>	1950 <sup>2,3</sup>	1960 <sup>2,3</sup>	1970 <sup>3</sup>	1980 <sup>3</sup>	1990 <sup>3</sup>	2000 <sup>4</sup>	2005 <sup>4</sup>	2010 <sup>4</sup>	2015 <sup>4</sup>	2016 <sup>4</sup>
All persons										
Age-adjusted death rate per 100,000 population <sup>5</sup>										
All causes	1,446.0	1,339.2	1,222.6	1,039.1	938.7	869.0	815.0	747.0	733.1	728.8
Diseases of heart	588.8	559.0	492.7	412.1	321.8	257.6	216.8	179.1	168.5	165.5
Ischemic heart disease	---	---	---	345.2	249.6	186.8	148.2	113.6	97.2	94.3
Cerebrovascular diseases	180.7	177.9	147.7	96.2	65.3	60.9	48.0	39.1	37.6	37.3
Malignant neoplasms	193.9	193.9	198.6	207.9	216.0	199.6	185.1	172.8	158.5	155.8
Trachea, bronchus, and lung	15.0	24.1	37.1	49.9	59.3	56.1	52.7	47.6	40.5	38.4
Colon, rectum, and anus	---	30.3	28.9	27.4	24.5	20.8	17.7	15.8	14.2	13.9
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	28.3	37.2	44.2	43.9	42.2	41.6	40.6
Influenza and pneumonia <sup>7</sup>	48.1	53.7	41.7	31.4	36.8	23.7	21.0	15.1	15.2	13.5
Chronic liver disease and cirrhosis	11.3	13.3	17.8	15.1	11.1	9.5	8.9	9.4	10.8	10.7
Diabetes mellitus <sup>8</sup>	23.1	22.5	24.3	18.1	20.7	25.0	24.9	20.8	21.3	21.0
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	18.1	24.0	25.1	29.4	30.3
Human immunodeficiency virus (HIV) disease	...	...	...	...	10.2	5.2	4.2	2.6	1.9	1.8
Unintentional injuries	78.0	62.3	60.1	46.4	36.3	34.9	39.5	38.0	43.2	47.4
Motor vehicle-related injuries	24.6	23.1	27.6	22.3	18.5	15.4	15.2	11.3	11.4	12.1
Drug overdose	2.5	1.7	2.8	1.9	2.3	4.5	8.0	10.6	14.8	18.2
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	9.1	9.3	13.5	14.7	15.3	13.4	13.1
Suicide <sup>10</sup>	13.2	12.5	13.1	12.2	12.5	10.4	10.9	12.1	13.3	13.5
Homicide <sup>10</sup>	5.1	5.0	8.8	10.4	9.4	5.9	6.1	5.3	5.7	6.2
Male										
All causes	1,674.2	1,609.0	1,542.1	1,348.1	1,202.8	1,053.8	971.9	887.1	863.2	861.0
Diseases of heart	699.0	687.6	634.0	538.9	412.4	320.0	268.2	225.1	211.8	209.1
Ischemic heart disease	---	---	---	459.7	328.2	241.4	192.3	151.3	131.2	128.3
Cerebrovascular diseases	186.4	186.1	157.4	102.2	68.5	62.4	48.4	39.3	37.8	37.5
Malignant neoplasms	208.1	225.1	247.6	271.2	280.4	248.9	227.2	209.9	189.2	185.4
Trachea, bronchus, and lung	24.6	43.6	67.5	85.2	91.1	76.7	69.1	60.3	49.5	46.7
Colon, rectum, and anus	---	31.8	32.3	32.8	30.4	25.1	21.2	19.0	16.8	16.4
Prostate	28.6	28.7	28.8	32.8	38.4	30.4	25.3	21.9	18.8	19.3
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	49.9	55.4	55.8	52.2	48.7	46.0	45.1
Influenza and pneumonia <sup>7</sup>	55.0	65.8	54.0	42.1	47.8	28.9	24.9	18.2	17.7	15.9
Chronic liver disease and cirrhosis	15.0	18.5	24.8	21.3	15.9	13.4	12.4	12.9	14.5	14.3
Diabetes mellitus <sup>8</sup>	18.8	19.9	23.0	18.1	21.7	27.8	28.8	24.9	26.2	26.0
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	15.2	19.5	21.0	23.7	24.3
Human immunodeficiency virus (HIV) disease	...	...	...	...	18.5	7.9	6.3	3.8	2.8	2.7
Unintentional injuries	101.8	85.5	87.4	69.0	52.9	49.3	55.0	51.5	58.7	65.0
Motor vehicle-related injuries	38.5	35.4	41.5	33.6	26.5	21.7	21.9	16.2	16.7	17.6
Drug overdose	3.3	2.3	3.9	2.7	3.5	6.6	10.8	13.8	19.8	25.1
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	12.2	12.1	16.9	18.1	18.7	16.3	15.9
Suicide <sup>10</sup>	21.2	20.0	19.8	19.9	21.5	17.7	18.1	19.8	21.1	21.4
Homicide <sup>10</sup>	7.9	7.5	14.3	16.6	14.8	9.0	9.7	8.4	9.1	9.9

**Table 17. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2016**

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#017>.

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>1</sup>	1950 <sup>2,3</sup>	1960 <sup>2,3</sup>	1970 <sup>3</sup>	1980 <sup>3</sup>	1990 <sup>3</sup>	2000 <sup>4</sup>	2005 <sup>4</sup>	2010 <sup>4</sup>	2015 <sup>4</sup>	2016 <sup>4</sup>
Age-adjusted death rate per 100,000 population <sup>5</sup>										
Female										
All causes	1,236.0	1,105.3	971.4	817.9	750.9	731.4	692.3	634.9	624.2	617.5
Diseases of heart	486.6	447.0	381.6	320.8	257.0	210.9	177.5	143.3	133.6	130.4
Ischemic heart disease	---	---	---	263.1	193.9	146.5	115.0	84.9	70.5	67.5
Cerebrovascular diseases	175.8	170.7	140.0	91.7	62.6	59.1	47.0	38.3	36.9	36.5
Malignant neoplasms	182.3	168.7	163.2	166.7	175.7	167.6	156.7	146.7	135.9	134.0
Trachea, bronchus, and lung	5.8	7.5	13.1	24.4	37.1	41.3	40.6	38.1	33.5	31.9
Colon, rectum, and anus	---	29.1	26.5	23.8	20.6	17.7	15.0	13.3	12.1	11.8
Breast	31.9	31.7	32.1	31.9	33.3	26.8	24.2	22.1	20.3	20.1
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	14.9	26.6	37.4	38.7	38.0	38.6	37.4
Influenza and pneumonia <sup>7</sup>	41.9	43.8	32.7	25.1	30.5	20.7	18.6	13.1	13.5	11.8
Chronic liver disease and cirrhosis	7.8	8.7	11.9	9.9	7.1	6.2	5.8	6.2	7.6	7.5
Diabetes mellitus <sup>8</sup>	27.0	24.7	25.1	18.0	19.9	23.0	21.9	17.6	17.3	16.9
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	19.3	26.2	27.3	32.8	33.9
Human immunodeficiency virus (HIV) disease	...	...	...	...	2.2	2.5	2.3	1.4	1.0	0.9
Unintentional injuries	54.0	40.0	35.1	26.1	21.5	22.0	25.3	25.6	28.7	30.8
Motor vehicle-related injuries	11.5	11.7	14.9	11.8	11.0	9.5	8.9	6.5	6.4	6.9
Drug overdose	1.7	1.1	1.8	1.3	1.2	2.5	5.1	7.5	9.8	11.4
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	7.3	7.7	11.5	12.6	13.0	11.3	11.2
Suicide <sup>10</sup>	5.6	5.6	7.4	5.7	4.8	4.0	4.4	5.0	6.0	6.0
Homicide <sup>10</sup>	2.4	2.6	3.7	4.4	4.0	2.8	2.5	2.3	2.2	2.5
White <sup>11</sup>										
All causes	1,410.8	1,311.3	1,193.3	1,012.7	909.8	849.8	801.1	741.8	735.0	729.9
Diseases of heart	586.0	559.0	492.2	409.4	317.0	253.4	213.2	176.9	167.9	164.5
Ischemic heart disease	---	---	---	347.6	249.7	185.6	147.3	113.5	98.0	94.8
Cerebrovascular diseases	175.5	172.7	143.5	93.2	62.8	58.8	46.0	37.7	36.4	36.1
Malignant neoplasms	194.6	193.1	196.7	204.2	211.6	197.2	183.9	172.4	159.4	156.6
Trachea, bronchus, and lung	15.2	24.0	36.7	49.2	58.6	56.2	53.2	48.3	41.4	39.2
Colon, rectum, and anus	---	30.9	29.2	27.4	24.1	20.3	17.1	15.3	13.9	13.6
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	29.3	38.3	46.0	46.0	44.6	44.5	43.3
Influenza and pneumonia <sup>7</sup>	44.8	50.4	39.8	30.9	36.4	23.5	20.9	14.9	15.2	13.4
Chronic liver disease and cirrhosis	11.5	13.2	16.6	13.9	10.5	9.6	9.2	9.9	11.7	11.6
Diabetes mellitus <sup>8</sup>	22.9	21.7	22.9	16.7	18.8	22.8	22.8	19.0	19.6	19.3
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	18.8	24.7	26.0	30.5	31.4
Human immunodeficiency virus (HIV) disease	...	...	...	...	8.3	2.8	2.2	1.4	1.1	1.0
Unintentional injuries	77.0	60.4	57.8	45.3	35.5	35.1	40.7	40.3	46.0	50.4
Motor vehicle-related injuries	24.4	22.9	27.1	22.6	18.5	15.6	15.7	11.7	11.7	12.4
Drug overdose	2.4	1.6	2.4	1.8	2.1	4.5	8.5	11.9	16.7	20.3
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	8.0	8.3	12.1	13.2	14.0	12.2	12.0
Suicide <sup>10</sup>	13.9	13.1	13.8	13.0	13.4	11.3	12.1	13.6	15.1	15.2
Homicide <sup>10</sup>	2.6	2.7	4.7	6.7	5.5	3.6	3.7	3.3	3.3	3.5

**Table 17. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2016**

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#017>.

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>1</sup>	1950 <sup>2,3</sup>	1960 <sup>2,3</sup>	1970 <sup>3</sup>	1980 <sup>3</sup>	1990 <sup>3</sup>	2000 <sup>4</sup>	2005 <sup>4</sup>	2010 <sup>4</sup>	2015 <sup>4</sup>	2016 <sup>4</sup>
<b>Black or African American<sup>11</sup></b>	<b>Age-adjusted death rate per 100,000 population<sup>5</sup></b>									
All causes	1,722.1	1,577.5	1,518.1	1,314.8	1,250.3	1,121.4	1,035.1	898.2	851.9	857.2
Diseases of heart	588.7	548.3	512.0	455.3	391.5	324.8	278.0	224.9	205.1	205.3
Ischemic heart disease	---	---	---	334.5	267.0	218.3	175.7	131.2	108.9	108.3
Cerebrovascular diseases	233.6	235.2	197.1	129.1	91.6	81.9	67.0	53.0	50.8	50.5
Malignant neoplasms	176.4	199.1	225.3	256.4	279.5	248.5	223.5	203.8	180.1	177.9
Trachea, bronchus, and lung	11.1	23.7	41.3	59.7	72.4	64.0	58.1	51.4	42.0	40.0
Colon, rectum, and anus	---	22.8	26.1	28.3	30.6	28.2	25.1	21.8	18.8	18.5
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	19.2	28.1	31.6	31.1	29.0	28.9	29.3
Influenza and pneumonia <sup>7</sup>	76.7	81.1	57.2	34.4	39.4	25.6	22.6	16.8	15.9	15.0
Chronic liver disease and cirrhosis	9.0	13.6	28.1	25.0	16.5	9.4	7.6	6.7	7.4	7.1
Diabetes mellitus <sup>8</sup>	23.5	30.9	38.8	32.7	40.5	49.5	47.5	38.7	37.0	36.8
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	13.0	20.8	20.6	26.6	27.5
Human immunodeficiency virus (HIV) disease	...	...	...	...	26.7	23.3	19.2	11.6	7.9	7.2
Unintentional injuries	79.9	74.0	78.3	57.6	43.8	37.7	38.8	31.3	36.8	42.7
Motor vehicle-related injuries	26.0	24.2	31.1	20.2	18.8	15.7	14.4	10.9	12.2	13.5
Drug overdose	2.8	2.9	5.8	3.1	4.1	6.0	8.1	7.3	11.1	15.4
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	20.9	19.8	28.7	30.3	29.3	25.4	25.1
Suicide <sup>10</sup>	4.5	5.0	6.2	6.5	7.1	5.5	5.2	5.2	5.6	6.1
Homicide <sup>10</sup>	28.3	26.0	44.0	39.0	36.3	20.5	21.1	17.7	19.8	21.4
<b>American Indian or Alaska Native<sup>11</sup></b>										
All causes	---	---	---	867.0	716.3	709.3	701.1	628.3	596.9	591.2
Diseases of heart	---	---	---	240.6	200.6	178.2	156.6	128.6	118.5	115.4
Ischemic heart disease	---	---	---	173.6	139.1	129.1	106.1	84.9	73.4	71.3
Cerebrovascular diseases	---	---	---	57.8	40.7	45.0	38.8	28.1	24.7	23.8
Malignant neoplasms	---	---	---	113.7	121.8	127.8	128.8	122.4	107.9	103.4
Trachea, bronchus, and lung	---	---	---	20.7	30.9	32.3	35.3	33.1	26.7	25.1
Colon, rectum, and anus	---	---	---	9.5	12.0	13.4	12.6	11.7	11.1	9.9
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	14.2	25.4	32.8	31.6	33.8	30.9	29.7
Influenza and pneumonia <sup>7</sup>	---	---	---	44.4	36.1	22.3	23.6	15.9	12.5	12.7
Chronic liver disease and cirrhosis	---	---	---	45.3	24.1	24.3	21.6	22.8	26.4	26.7
Diabetes mellitus <sup>8</sup>	---	---	---	29.6	34.1	41.5	44.1	36.4	34.2	34.3
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	9.1	15.0	17.2	15.4	17.3
Human immunodeficiency virus (HIV) disease	...	...	...	...	1.8	2.2	2.5	1.6	1.4	1.0
Unintentional injuries	---	---	---	99.0	62.6	51.3	51.3	46.9	50.7	53.9
Motor vehicle-related injuries	---	---	---	54.5	32.5	27.3	22.6	15.7	16.9	17.8
Drug overdose	---	---	---	2.3	3.2	4.7	8.6	13.0	16.1	18.1
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	12.2	11.6	15.0	15.6	16.4	12.2	11.6
Suicide <sup>10</sup>	---	---	---	11.9	11.7	9.8	10.7	10.8	12.6	13.5
Homicide <sup>10</sup>	---	---	---	15.5	10.4	6.8	6.8	5.7	6.2	6.7

**Table 17. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2016**

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#017>.

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>1</sup>	1950 <sup>2,3</sup>	1960 <sup>2,3</sup>	1970 <sup>3</sup>	1980 <sup>3</sup>	1990 <sup>3</sup>	2000 <sup>4</sup>	2005 <sup>4</sup>	2010 <sup>4</sup>	2015 <sup>4</sup>	2016 <sup>4</sup>
Asian or Pacific Islander <sup>11</sup>										
Age-adjusted death rate per 100,000 population <sup>5</sup>										
All causes	---	---	---	589.9	582.0	506.4	459.6	424.3	394.8	392.6
Diseases of heart	---	---	---	202.1	181.7	146.0	119.7	100.9	86.5	85.2
Ischemic heart disease	---	---	---	168.2	139.6	109.6	85.6	68.7	54.9	53.0
Cerebrovascular diseases	---	---	---	66.1	56.9	52.9	40.8	33.2	29.8	30.7
Malignant neoplasms	---	---	---	126.1	134.2	121.9	113.2	108.9	99.0	97.1
Trachea, bronchus, and lung	---	---	---	28.4	30.2	28.1	26.3	24.8	22.2	21.5
Colon, rectum, and anus	---	---	---	16.4	14.4	12.7	11.5	11.4	9.8	9.3
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	12.9	19.4	18.6	15.9	13.9	12.2	11.7
Influenza and pneumonia <sup>7</sup>	---	---	---	24.0	31.4	19.7	16.8	14.4	14.0	12.9
Chronic liver disease and cirrhosis	---	---	---	6.1	5.2	3.5	3.6	3.2	3.3	3.4
Diabetes mellitus <sup>8</sup>	---	---	---	12.6	14.6	16.4	17.3	15.5	15.7	15.5
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	5.5	8.5	10.9	14.7	15.0
Human immunodeficiency virus (HIV) disease	...	...	...	...	2.2	0.6	0.6	0.4	0.4	0.4
Unintentional injuries	---	---	---	27.0	23.9	17.9	18.1	15.0	16.1	16.8
Motor vehicle-related injuries	---	---	---	13.9	14.0	8.6	7.5	5.1	4.9	5.2
Drug overdose	---	---	---	0.5	0.7	0.7	1.3	1.4	2.4	2.9
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	7.2	7.1	8.4	8.7	9.6	8.3	8.1
Suicide <sup>10</sup>	---	---	---	7.8	6.7	5.5	5.1	6.2	6.4	6.7
Homicide <sup>10</sup>	---	---	---	5.9	5.0	3.0	2.8	1.8	1.6	1.8
Hispanic or Latino <sup>11,12</sup>										
All causes	---	---	---	---	692.0	665.7	627.6	558.6	525.3	525.8
Diseases of heart	---	---	---	---	217.1	196.0	170.4	132.8	116.9	115.8
Ischemic heart disease	---	---	---	---	173.3	153.2	127.9	92.3	74.5	72.7
Cerebrovascular diseases	---	---	---	---	45.2	46.4	38.6	32.1	32.3	32.1
Malignant neoplasms	---	---	---	---	136.8	134.9	127.9	119.7	110.3	110.0
Trachea, bronchus, and lung	---	---	---	---	26.5	24.8	23.3	20.4	17.8	16.6
Colon, rectum, and anus	---	---	---	---	14.7	14.1	13.1	12.3	10.9	10.8
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	---	19.3	21.1	20.9	19.6	17.7	17.1
Influenza and pneumonia <sup>7</sup>	---	---	---	---	29.7	20.6	18.5	13.7	11.4	11.1
Chronic liver disease and cirrhosis	---	---	---	---	18.3	16.5	14.1	13.7	14.9	14.7
Diabetes mellitus <sup>8</sup>	---	---	---	---	28.2	36.9	35.4	27.1	25.2	24.7
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	10.4	15.6	18.5	24.2	24.3
Human immunodeficiency virus (HIV) disease	...	...	...	...	16.3	6.7	4.8	2.8	1.8	1.7
Unintentional injuries	---	---	---	---	34.6	30.1	31.8	25.8	28.6	31.4
Motor vehicle-related injuries	---	---	---	---	19.5	14.7	14.6	9.6	10.2	11.0
Drug overdose	---	---	---	---	3.2	4.1	5.2	5.6	7.7	9.5
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	---	8.4	11.8	12.8	14.1	11.4	11.4
Suicide <sup>10</sup>	---	---	---	---	7.8	5.9	5.6	5.9	6.2	6.7
Homicide <sup>10</sup>	---	---	---	---	16.2	7.5	7.4	5.3	4.9	5.3

**Table 17. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2016**

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#017>.

[Data are based on death certificates]

Sex, race, Hispanic origin, and cause of death <sup>1</sup>	1950 <sup>2,3</sup>	1960 <sup>2,3</sup>	1970 <sup>3</sup>	1980 <sup>3</sup>	1990 <sup>3</sup>	2000 <sup>4</sup>	2005 <sup>4</sup>	2010 <sup>4</sup>	2015 <sup>4</sup>	2016 <sup>4</sup>
Age-adjusted death rate per 100,000 population <sup>5</sup>										
White, not Hispanic or Latino <sup>12</sup>										
All causes	---	---	---	---	914.5	855.5	810.1	755.0	753.2	749.0
Diseases of heart	---	---	---	---	319.7	255.5	215.5	179.9	171.9	168.7
Ischemic heart disease	---	---	---	---	251.9	186.6	148.3	115.0	99.7	96.6
Cerebrovascular diseases	---	---	---	---	63.5	59.0	46.2	37.8	36.4	36.1
Malignant neoplasms	---	---	---	---	215.4	200.6	187.8	176.5	163.7	160.8
Trachea, bronchus, and lung	---	---	---	---	60.3	58.2	55.5	50.8	43.8	41.6
Colon, rectum, and anus	---	---	---	---	24.6	20.5	17.4	15.5	14.1	13.9
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	---	39.2	47.2	47.7	46.6	46.9	45.8
Influenza and pneumonia <sup>7</sup>	---	---	---	---	36.5	23.5	21.0	14.9	15.4	13.5
Chronic liver disease and cirrhosis	---	---	---	---	9.9	9.0	8.7	9.4	11.1	11.0
Diabetes mellitus <sup>8</sup>	---	---	---	---	18.3	21.8	21.8	18.2	18.9	18.6
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	19.1	25.1	26.4	30.8	31.8
Human immunodeficiency virus (HIV) disease	...	...	...	...	7.4	2.2	1.8	1.1	0.9	0.8
Unintentional injuries	---	---	---	---	35.0	35.3	41.5	42.4	49.0	53.9
Motor vehicle-related injuries	---	---	---	---	18.2	15.6	15.7	11.9	11.8	12.4
Drug overdose	---	---	---	---	2.0	4.6	9.1	13.3	18.8	23.0
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	---	8.1	12.0	13.1	13.8	12.2	11.9
Suicide <sup>10</sup>	---	---	---	---	13.8	12.0	13.0	15.0	17.0	17.0
Homicide <sup>10</sup>	---	---	---	---	4.0	2.8	2.7	2.5	2.6	2.9
Black, not Hispanic or Latino <sup>12</sup>										
All causes	---	---	---	---	---	1,137.0	1,055.1	920.4	876.1	882.8
Diseases of heart	---	---	---	---	---	328.4	282.4	229.5	210.1	210.7
Ischemic heart disease	---	---	---	---	---	220.4	178.1	133.4	111.3	110.8
Cerebrovascular diseases	---	---	---	---	---	82.9	68.2	54.3	52.2	51.9
Malignant neoplasms	---	---	---	---	---	252.0	227.7	208.8	185.1	182.9
Trachea, bronchus, and lung	---	---	---	---	---	64.9	59.4	52.6	43.1	41.2
Colon, rectum, and anus	---	---	---	---	---	28.7	25.5	22.4	19.3	19.0
Chronic lower respiratory diseases <sup>6,7</sup>	---	---	---	---	---	32.0	31.6	29.6	29.7	30.0
Influenza and pneumonia <sup>7</sup>	---	---	---	---	---	25.9	22.9	17.1	16.3	15.4
Chronic liver disease and cirrhosis	---	---	---	---	---	9.6	7.7	6.9	7.6	7.3
Diabetes mellitus <sup>8</sup>	---	---	---	---	---	50.2	48.3	39.6	38.0	37.8
Alzheimer's disease <sup>9</sup>	---	---	---	---	---	13.2	21.1	20.9	27.3	28.2
Human immunodeficiency virus (HIV) disease	...	...	...	...	---	23.6	19.7	12.0	8.2	7.5
Unintentional injuries	---	---	---	---	---	38.4	39.7	32.4	38.2	44.2
Motor vehicle-related injuries	---	---	---	---	---	16.0	14.9	11.4	12.7	14.1
Drug overdose	---	---	---	---	---	6.1	8.2	7.5	11.5	15.9
Nephritis, nephrotic syndrome and nephrosis <sup>8</sup>	---	---	---	---	---	29.1	30.9	30.1	26.2	25.8
Suicide <sup>10</sup>	---	---	---	---	---	5.6	5.4	5.4	5.8	6.3
Homicide <sup>10</sup>	---	---	---	---	---	21.1	21.9	18.6	20.9	22.8

## Table 17. Age-adjusted death rates for selected causes of death, by sex, race, and Hispanic origin: United States, selected years 1950–2016

Excel version (with more data years and standard errors when available): <https://www.cdc.gov/nchs/hus/contents2017.htm#017>.

[Data are based on death certificates]

--- Data not available.

... Category not applicable.

<sup>1</sup>Underlying cause-of-death code numbers are based on the applicable International Classification of Diseases (ICD) revision for data years shown. See Appendix II, Cause of death; Table III; Table IV.

<sup>2</sup>Includes deaths of persons who were not residents of the 50 states and the District of Columbia (D.C.).

<sup>3</sup>Underlying 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.

<sup>4</sup>Starting with 1999 data, cause of death is coded according to ICD–10. See Appendix II, Cause of death; Comparability ratio; Table IV; Table V.

<sup>5</sup>Age-adjusted rates are calculated using the year 2000 standard population. Prior to 2001 (shown in spreadsheet version), 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.

<sup>6</sup>Between 1998 and 1999 (shown in spreadsheet version), the cause of death title for Chronic obstructive pulmonary diseases (COPD) in the ICD–9 was renamed to Chronic lower respiratory diseases (CLRD) in ICD–10.

<sup>7</sup>Starting with 1999 data (shown in spreadsheet version), the rules for selecting CLRD and Pneumonia as the underlying cause of death changed, resulting in an increase in the number of deaths for CLRD and a decrease in the number of deaths for Pneumonia. Therefore, trend data for these two causes of death should be interpreted with caution. For more information, see Appendix II, Table V.

<sup>8</sup>Starting with 2011 data (shown in spreadsheet version), the rules for selecting Renal failure as the underlying cause of death were changed, affecting the number of deaths in the Nephritis, nephrotic syndrome and nephrosis and Diabetes categories. These changes directly affect deaths with mention of Renal failure and other associated conditions, such as Diabetes mellitus with renal complications. The result is a decrease in the number of deaths for Nephritis, nephrotic syndrome and nephrosis and an increase in the number of deaths for Diabetes mellitus. Therefore, trend data for these two causes of death should be interpreted with caution. For more information, see Technical Notes in "Deaths: Final data for 2011," available from: [https://www.cdc.gov/nchs/data/nvsr/nvsr63/nvsr63\\_03.pdf](https://www.cdc.gov/nchs/data/nvsr/nvsr63/nvsr63_03.pdf).

<sup>9</sup>Data for Alzheimer's disease are only presented for data years 1999 (shown in spreadsheet version) and beyond due to large differences in death rates caused by changes in the ICD coding of the causes of death between ICD–9 and ICD–10. See Appendix II, Cause of death; Comparability ratio; Table IV; Table V.

<sup>10</sup>Rates for 2001 (shown in spreadsheet version) 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.

<sup>11</sup>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 Hispanic, American Indian or Alaska Native, and Asian or Pacific Islander persons should be interpreted with caution because of inconsistencies in reporting Hispanic origin or race on the death certificate (death rate numerators) compared with population figures (death rate denominators). The net effect of misclassification is an underestimation of deaths and death rates for races other than white and black. See Appendix II, Race, for a detailed discussion of sources of bias in death rates by race and Hispanic origin.

<sup>12</sup>Prior to 1997 (shown in spreadsheet version), 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. Rates for 2011 and beyond were computed using 2010-based postcensal estimates. See Appendix I, Population Census and Population Estimates. Starting with 2003 data, some states began to collect information on more than one race on the death certificate, according to 1997 Office of Management and Budget (OMB) standards. The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards, for comparability with other states. See Appendix II, Race. Data for additional years are available. See the Excel spreadsheet on the *Health, United States* website at: <https://www.cdc.gov/nchs/hus.htm>. Some data have been revised and differ from previous editions of *Health, United States*.

SOURCE: NCHS, National Vital Statistics System; Grove RD, Hetzel AM. Vital statistics rates in the United States, 1940–1960. 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; Xu JQ, Murphy SL, Kochanek KD, Bastian B, Arias E. Deaths: Final data for 2016; vol 67. National Vital Statistics Reports. Hyattsville, MD: National Center for Health Statistics. 2018. Available from: <https://www.cdc.gov/nchs/products/nvsr.htm>. See Appendix I, National Vital Statistics System (NVSS).