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# Deaths: Final Data for 2010

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## Abstract

*Objective*—This report presents final 2010 data on U.S. deaths, death rates, life expectancy, infant mortality, and trends by selected characteristics such as age, sex, Hispanic origin, race, state of residence, and cause of death.

*Methods*—Information reported on death certificates, which is completed by funeral directors, attending physicians, medical examiners, and coroners, is presented in descriptive tabulations. The original records are filed in state registration offices. Statistical information is compiled in a national database through the Vital Statistics Cooperative Program of the Centers for Disease Control and Prevention's National Center for Health Statistics. Causes of death are processed in accordance with the *International Classification of Diseases, Tenth Revision*.

*Results*—In 2010, a total of 2,468,435 deaths were reported in the United States. The age-adjusted death rate was 747.0 deaths per 100,000 standard population, lower than the 2009 rate (749.6) and a record low rate. Life expectancy at birth rose 0.2 year, from 78.5 years in 2009 to a record high of 78.7 in 2010. Age-specific death rates decreased for each age group under 85, although the decrease for ages 1–4 was not significant. The age-specific rate increased for ages 85 and over. The leading causes of death in 2010 remained the same as in 2009 for all but one of the 15 leading causes. Pneumonitis due to solids and liquids replaced Assault (homicide) as the 15th leading cause of death in 2010. The infant mortality rate decreased 3.8% to a historically low value of 6.15 deaths per 1,000 live births in 2010.

*Conclusions*—The decline of the age-adjusted death rate to a record low value for the United States, and the increase in life expectancy to a record high value of 78.7 years, are consistent with long-term trends in mortality.

**Keywords:** mortality • cause of death • life expectancy • vital statistics

## Highlights

### Mortality experience in 2010

- In 2010, a total of 2,468,435 resident deaths were registered in the United States.
- The age-adjusted death rate, which accounts for the aging of the population, was 747.0 deaths per 100,000 U.S. standard population.
- Life expectancy at birth was 78.7 years.
- The 15 leading causes of death in 2010 were:

  1. Diseases of heart (heart disease)
  2. Malignant neoplasms (cancer)
  3. Chronic lower respiratory diseases
  4. Cerebrovascular diseases (stroke)
  5. Accidents (unintentional injuries)
  6. Alzheimer's disease
  7. Diabetes mellitus (diabetes)
  8. Nephritis, nephrotic syndrome and nephrosis (kidney disease)
  9. Influenza and pneumonia
  10. Intentional self-harm (suicide)
  11. Septicemia
  12. Chronic liver disease and cirrhosis
  13. Essential hypertension and hypertensive renal disease (hypertension)
  14. Parkinson's disease
  15. Pneumonitis due to solids and liquids

- In 2010, the infant mortality rate was 6.15 infant deaths per 1,000 live births.
- The 10 leading causes of infant death were:

  1. Congenital malformations, deformations and chromosomal abnormalities (congenital malformations)
  2. Disorders related to short gestation and low birth weight, not elsewhere classified (low birth weight)

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3. Sudden infant death syndrome (SIDS)
4. Newborn affected by maternal complications of pregnancy (maternal complications)
5. Accidents (unintentional injuries)
6. Newborn affected by complications of placenta, cord and membranes (cord and placental complications)
7. Bacterial sepsis of newborn
8. Respiratory distress of newborn
9. Diseases of the circulatory system
10. Necrotizing enterocolitis of newborn

## Trends

- The age-adjusted death rate declined to a record low in 2010.
- Life expectancy was 78.7 years, continuing a long-term rising trend. Life expectancy increased for the total population, as well as for the black and white populations. Both white and black male and female populations experienced an increase in life expectancy in 2010 compared with 2009.
- Life expectancy for the Hispanic U.S. population increased 0.1 year from 2009 to 81.2 years in 2010.
- Age-adjusted death rates decreased significantly in 2010 from 2009 for 6 of the 15 leading causes of death and increased for 8 of the 15 leading causes.
- Assault (homicide) dropped from among the 15 leading causes of death for the first time since 1965.
- Pneumonitis due to solids and liquids replaced homicide as the 15th leading cause of death in 2010.
- Rates for the two leading causes—heart disease and cancer—continued their long-term decreasing trends. Significant decreases also occurred for Chronic lower respiratory diseases, stroke, Influenza and pneumonia, and Septicemia.
- Within external causes of injury death, poisoning was the leading mechanism of injury mortality, followed by motor vehicle traffic-related injuries.
- Differences in mortality between the non-Hispanic black and non-Hispanic white populations persisted. The age-adjusted death rate was 1.2 times greater for the non-Hispanic black population than for the non-Hispanic white population. The difference in life expectancy between the non-Hispanic black and non-Hispanic white populations narrowed by 0.3 year, from 4.4 years in 2009 to 4.1 in 2010.
- The infant mortality rate decreased 3.8% in 2010 from 2009, to a record low of 6.15 infant deaths per 1,000 live births.
- The neonatal mortality rate decreased 3.1% in 2010 from 2009, and the postneonatal mortality rate decreased 5.4% for the same period.
- The infant mortality rate was 2.2 times greater for the black population than for the white population.

# Introduction

This report presents detailed 2010 data on deaths and death rates according to a number of demographic and medical characteristics. These data provide information on mortality patterns among residents of the United States by such variables as age, sex, Hispanic origin, race, state of residence, and cause of death. Information on these mortality patterns is key to understanding changes in the health and well-being of the U.S. population (1).

Preliminary data for 2010 were presented in the report "Deaths: Preliminary Data for 2010" using a sample of more than 98% of U.S. deaths (demographic and medical files) weighted to independent control totals (2). This report's findings, based on the final mortality file, are generally consistent with those based on preliminary data. The most notable modification to the 2010 mortality file, reflected in the final but not the preliminary file, was the inclusion of additional information to approximately 4,200 records that were pending investigation at the time the preliminary data were processed. Some causes of death were significantly affected by this modification, resulting in some inconsistencies between the preliminary and final findings. Among leading causes of death, deaths from unintentional injuries were most affected by the modification. Separate companion reports will present additional details on leading causes of death and life expectancy in the United States (3,4).

Mortality data in this report can be used to monitor and evaluate the health status of the United States in terms of current mortality levels and long-term mortality trends, as well as to identify segments of the U.S. population at greater risk of death from specific diseases and injuries. Differences in death rates among various demographic subpopulations, including race and ethnicity groups, may reflect subpopulation differences in factors such as socioeconomic status, access to medical care, and the prevalence of specific risk factors in a particular subpopulation.

# Methods

Data in this report are based on information from all resident death certificates filed in the 50 states and the District of Columbia. More than 99% of deaths occurring in this country are believed to be registered (5). Tables showing data by state also provide information for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands (Northern Marianas). Cause-of-death statistics presented in this report are classified in accordance with the *International Classification of Diseases, Tenth Revision* (ICD–10) (6). A discussion of the cause-of-death classification is provided in Technical Notes.

Mortality data on specific demographic and medical characteristics cover all 50 states and the District of Columbia. Measures of mortality in this report include the number of deaths; crude, age-specific, and age-adjusted death rates; infant, neonatal, and postneonatal mortality rates; life expectancy; and rate ratios. Changes in death rates in 2010 compared with 2009, and differences in death rates across demographic groups in 2010, are tested for statistical significance. Unless otherwise specified, reported differences are statistically significant. Additional information on these statistical methods, random variation and relative standard error, the computation of derived statistics and rates, population denominators, and the definition of terms are presented in Technical Notes.

The populations used to calculate death rates shown in this report for 1991–2010 were produced under a collaborative arrangement with the U.S. Census Bureau. Populations for 2010 and the intercensal period 2001–2009 are consistent with the 2010 census (7,8). Death rates shown in this report for 2001–2009 have been revised using updated intercensal population estimates and may differ from rates

previously published; see Technical Notes. All comparisons between rates for 2001–2009 and rates for other years are based on revised rates for 2001–2009 (consistent with rates available through CDC Wonder at http://wonder.cdc.gov/). Reflecting the latest guidelines issued in 1997 by the Office of Management and Budget (OMB), the 2000 and 2010 censuses included an option for persons to report more than one race as appropriate for themselves and household members (9); see Technical Notes for detailed information on the 2010 multiple-race reporting area and methods used to bridge responses for those who report more than one race. Beginning with deaths occurring in 2003, some states allowed for multiple-race reporting on the death certificate. Multiple-race data for these states are bridged to single-race categories; see Technical Notes. Once all states are collecting data on race according to the 1997 OMB guidelines, use of the bridged-race algorithm is expected to be discontinued.

The population data used to compile death rates by race in this report are based on special estimation procedures and are not true counts. This is the case even for the 2000 and 2010 populations. The estimation procedures used to develop these populations contain some error. Smaller population groups are affected much more than larger population groups (10). Data presented in this report and other mortality tabulations are available from the National Center for Health Statistics (NCHS) website, http://www.cdc.gov/nchs/deaths.htm. Availability of mortality microdata is described in Technical Notes.

# Results and Discussion

## Deaths and death rates

In 2010, a total of 2,468,435 resident deaths were registered in the United States, 31,272 more deaths than in 2009. The crude death rate for 2010, 799.5 deaths per 100,000 population, was 0.6% higher than the 2009 rate (794.5) (Tables A, 1, and 3).

The age-adjusted death rate in 2010 was 747.0 deaths per 100,000 U.S. standard population, a record low value that was 0.3% lower than the 2009 rate of 749.6 (Tables 1 and A). Age-adjusted death rates are constructs that show what the level of mortality would be if no changes occurred in the age composition of the population from year to year. (For a discussion of age-adjusted death rates, see Technical Notes.) Thus, age-adjusted death rates are better indicators than unadjusted (crude) death rates for examining changes in the risk of death over a period of time when the age distribution of the population is changing. Age-adjusted death rates also are better indicators of relative risk when comparing mortality across geographic areas or between sex or race subgroups of the population that have different age distributions; see Technical Notes. Since 1980, the age-adjusted death rate has decreased every year except 1983, 1985, 1988, 1993, 1999, and 2005. The pace of decline for age-adjusted death rates during the last 10 years has been faster than for previous decades. From 1980 through 1989, the decline was 8.5%; from 1990 through 1999, 6.7%; and from 2000 through 2010, 14.0% (Figure 1 and Table 1).

*Race*—In 2010, age-adjusted death rates for the major race groups (Table 1) were:

- White population, 741.8 deaths per 100,000 U.S. standard population
- Black population, 898.2

In 2010, the age-adjusted death rate for the black population was 1.2 times that for the white population (Table B). The average risk of death for the black population was 21.1% higher than for the white population (Table 1). From 1960 through 1982, rates for the

**Table A. Percentage change in death rates and age-adjusted death rates in 2010 from 2009, by age, race, and sex: United States**

[Based on death rates on an annual basis per 100,000 population, and age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

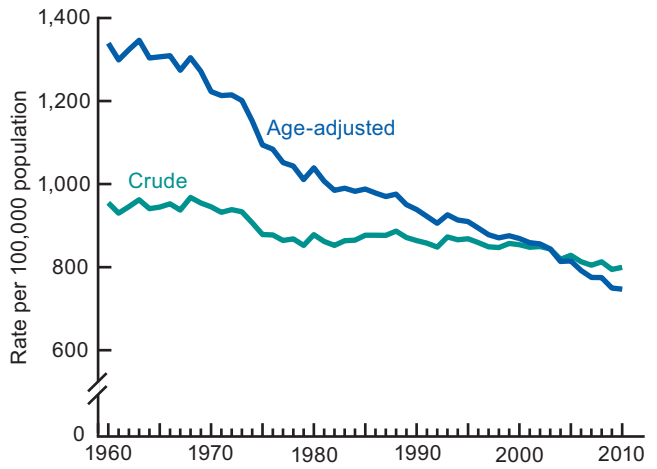
| Age (years) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All ages | Percent change | | | | | | | | | | | | | | |
| Crude | 0.6 | 0.6 | 0.7 | 0.9 | 0.9 | 0.9 | –0.9 | –1.3 | –0.4 | 1.1 | 1.9 | 0.0 | 1.6 | 1.8 | 1.4 |
| Age-adjusted | –0.3 | –0.4 | –0.3 | –0.1 | –0.2 | –0.1 | –1.6 | –1.7 | –1.4 | 2.0 | 3.0 | 1.0 | –0.1 | 0.6 | –0.6 |
| Under 1 year[4] | –5.5 | –6.2 | –4.6 | –3.7 | –4.4 | –2.8 | –9.3 | –11.1 | –7.1 | –8.4 | –1.1 | –17.5 | –1.0 | 5.4 | –8.5 |
| 1–4 | –3.3 | –1.7 | –5.3 | –3.5 | –3.2 | –4.4 | –4.3 | 2.4 | –11.9 | 7.3 | 9.9 | 3.8 | 11.2 | 0.0 | 28.3 |
| 5–14 | –6.5 | –6.4 | –7.5 | –3.9 | –4.8 | –4.5 | –12.3 | –11.7 | –12.7 | –9.4 | 16.8 | –35.2 | –21.9 | –23.6 | –21.0 |
| 15–24 | –3.0 | –2.4 | –4.5 | –3.1 | –3.3 | –2.4 | –1.7 | 0.2 | –7.1 | –9.5 | –3.8 | –22.6 | –3.5 | 4.1 | –19.4 |
| 25–34 | –1.4 | –0.8 | –2.4 | –0.9 | –0.2 | –2.4 | –4.3 | –4.2 | –4.7 | 2.1 | 0.8 | 4.5 | 4.3 | 4.6 | 4.2 |
| 35–44 | –5.3 | –5.8 | –4.4 | –4.6 | –4.7 | –4.2 | –6.8 | –8.7 | –4.0 | –9.3 | –6.3 | –14.7 | –8.2 | –10.9 | –3.5 |
| 45–54 | –2.6 | –2.8 | –2.4 | –2.1 | –2.1 | –2.2 | –5.0 | –5.8 | –3.9 | –1.3 | 1.9 | –5.9 | –1.6 | –5.7 | 4.8 |
| 55–64 | –0.6 | –0.3 | –1.0 | –0.4 | 0.1 | –1.1 | –2.0 | –2.6 | –1.2 | 2.0 | 1.1 | 3.3 | 1.6 | 1.8 | 1.4 |
| 65–74 | –0.7 | –0.7 | –0.8 | –0.7 | –0.6 | –0.9 | –1.2 | –1.4 | –1.0 | 0.3 | 0.1 | 0.6 | 1.0 | 0.6 | 1.5 |
| 75–84 | –0.6 | –0.6 | –0.8 | –0.5 | –0.6 | –0.6 | –1.3 | –0.1 | –2.4 | 2.2 | 2.5 | 1.8 | –0.7 | –0.5 | –1.1 |
| 85 and over | 2.0 | 1.8 | 2.1 | 2.1 | 1.8 | 2.2 | 1.5 | 1.0 | 1.7 | 9.2 | 11.9 | 7.6 | 0.7 | 3.3 | –1.1 |

[1]Multiple-race data were reported by 37 states and the District of Columbia in 2010. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[2]Includes Aleuts and Eskimos.

[3]Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

[4]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births).




NOTES: Crude death rates are on an annual basis per 100,000 population; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates for 2001–2009 are revised using updated intercensal population estimates and may differ from rates previously published; see Technical Notes.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Figure 1. Crude and age-adjusted death rates: United States, 1960–2010**

black and white populations declined by similar percentages (22.6% and 26.5%, respectively). From 1983 through 1988, rates diverged (11), increasing 3.5% for the black population and decreasing 2.0% for the white population. The disparity in age-adjusted death rates between the black and white populations reached its widest point in 1989 (1.4 times greater for the black population). Since 1989, the disparity between the two populations has narrowed as the age-adjusted rate for the black population declined 29.6% while the rate for the white population declined 19.4% (Table 1 and Figure 2).

In 2010, age-adjusted death rates decreased for black males (1.7%) and females (1.4%) compared with 2009 but did not change significantly for white males and females (Tables A and 1).

In general, age-adjusted death rates have declined from 1980 through 2010 for white males and females and black males and females. The rate decreased an average of 1.3% per year for white males, 0.8% for white females, 1.4% for black males, and 1.0% for black females during 1980–2010. However, increases were observed for both white males and white females in 1983, 1985, 1988, and 1993. In addition, the age-adjusted death rate for white females increased in 1995, 1999, 2005, and 2008. For black males, age-adjusted death rates tended to decrease, except for a period of increase from 1983 through 1988 and, separately, in 1993. Rates for black females decreased overall from 1980 through 2010, although with considerable variability in direction of change from year to year (Table 1).

Rates for the American Indian or Alaska Native (AIAN) and Asian or Pacific Islander (API) populations should be interpreted with caution because of reporting problems regarding correct identification of race on both the death certificate and in population censuses and surveys (12).

Counts of deaths for the AIAN population are substantially underreported, by about 30%, on the death certificate relative to self-reporting while alive (12). Thus, the age-adjusted death rates that are shown for the AIAN population (e.g., Tables 1 and 16) do not lend themselves to valid comparisons against other races.

Year-to-year trends for the AIAN population present valid insight into changes in mortality affecting this group, if it is reasonable to assume that the level of underreporting of AIAN deaths has remained more or less constant over past years (12). The age-adjusted rate for the AIAN population declined from 1980 through 1988 and fluctuated from 1989 through 1999, peaking in 1993 at 796.4 deaths per 100,000 U.S. standard population (Table 1). Since 1999, the rate has trended downward, declining 19.5% from 1999 to 2010. The change in the rate for the total AIAN population between 2009 (616.0) and 2010 (628.3) was not statistically significant (Table A).

In 2010, the age-adjusted death rate for the API population was 424.3 deaths per 100,000 U.S. standard population. The level of underreporting of deaths for the API population (about 7%) is not as high as it is for the AIAN population (12), but this underreporting still creates enough of a challenge so that any comparisons of this population with other races need to be interpreted with caution. The age-adjusted rate for the API population increased from 1981 through 1985, peaking at 586.5. The rate fluctuated from 1985 through 1993 before starting a persistent downward trend, decreasing 25% from 1993 to 2010 (Table 1).

*Hispanic origin*—Problems of race and Hispanic-origin reporting affect Hispanic death rates and the comparison of rates for the Hispanic and non-Hispanic populations; see Technical Notes. Mortality for Hispanics is somewhat understated because of net underreporting of Hispanic origin on the death certificate by an estimated 5%, while the non-Hispanic white and non-Hispanic black populations are not affected by problems of underreporting (12,13); see Technical Notes. Underreporting of Hispanic origin on the death certificate is relatively stable across age groups (12).

The age-adjusted death rate for the Hispanic population in 2010 was 558.6. Changes in age-adjusted death rates from 2009 to 2010 were not significant for the Hispanic population or the non-Hispanic white population (Tables C and 2). The age-adjusted rate for the non-Hispanic black population decreased 1.5% from 2009 to 2010.

Among Hispanics, the age-adjusted death rate did not change significantly in 2010 from 2009 for Hispanic males or Hispanic females. Rates decreased for non-Hispanic black males by 1.6%, and for non-Hispanic black females by 1.3% (Tables C and 2).

Within the Hispanic population, the age-adjusted death rate for males was 1.5 times the rate for females in 2010 (Table 2). The male-to-female ratio (shown to one decimal place) of 1.5 in 2010 was slightly higher than the ratio of 1.4 in 2008 and 2009 but was the same ratio as observed from 1999–2007. The corresponding male-to-female ratio for the non-Hispanic white population was 1.4, and for the non-Hispanic black population was 1.5 in 2010. Age-adjusted death rates in 2010 for selected Hispanic subgroups (Table 5), in order of relative magnitude, were:

- Puerto Rican population, 673.4 deaths per 100,000 U.S. standard population
- Cuban population, 575.0
- Mexican population, 545.8
- Central and South American population, 371.1

**Table B. Percentage of total deaths, death rates, and age-adjusted death rates for 2010, percentage change in age-adjusted death rates in 2010 from 2009, and ratio of age-adjusted death rates by race and sex for the 15 leading causes of death for the total population in 2010: United States**

[Crude death rates on an annual basis per 100,000 population; age-adjusted rates per 100,000 U.S. standard population. Rates are based on populations enumerated as of April 1 for 2010 and estimated as of July 1 for 2009 using revised intercensal estimates. The asterisks preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Rank[1] | Cause of death (based on ICD–10, 2004) | Number | Percent of total deaths | 2010 crude death rate | Age-adjusted death rate: 2010 | Age-adjusted death rate: Percent change 2009 to 2010 | Age-adjusted death rate: Ratio Male to female | Age-adjusted death rate: Ratio Black[2] to white |
|---|---|---|---|---|---|---|---|---|
| . . . | All causes | 2,468,435 | 100.0 | 799.5 | 747.0 | –0.3 | 1.4 | 1.2 |
| 1 | Diseases of heart (I00–I09,I11,I13,I20–I51) | 597,689 | 24.2 | 193.6 | 179.1 | –2.0 | 1.6 | 1.3 |
| 2 | Malignant neoplasms (C00–C97) | 574,743 | 23.3 | 186.2 | 172.8 | –0.4 | 1.4 | 1.2 |
| 3 | Chronic lower respiratory diseases (J40–J47) | 138,080 | 5.6 | 44.7 | 42.2 | –1.2 | 1.3 | 0.7 |
| 4 | Cerebrovascular diseases (I60–I69) | 129,476 | 5.2 | 41.9 | 39.1 | –1.3 | 1.0 | 1.4 |
| 5 | Accidents (unintentional injuries) (V01–X59,Y85–Y86) | 120,859 | 4.9 | 39.1 | 38.0 | 1.3 | 2.0 | 0.8 |
| 6 | Alzheimer's disease (G30) | 83,494 | 3.4 | 27.0 | 25.1 | 3.7 | 0.8 | 0.8 |
| 7 | Diabetes mellitus (E10–E14) | 69,071 | 2.8 | 22.4 | 20.8 | –1.0 | 1.4 | 2.0 |
| 8 | Nephritis, nephrotic syndrome and nephrosis (N00–N07, N17–N19,N25–N27) | 50,476 | 2.0 | 16.3 | 15.3 | 1.3 | 1.4 | 2.1 |
| 9 | Influenza and pneumonia (J09–J18) | 50,097 | 2.0 | 16.2 | 15.1 | –8.5 | 1.4 | 1.1 |
| 10 | Intentional self-harm (suicide) (*U03,X60–X84,Y87.0) | 38,364 | 1.6 | 12.4 | 12.1 | 2.5 | 4.0 | 0.4 |
| 11 | Septicemia (A40–A41) | 34,812 | 1.4 | 11.3 | 10.6 | –3.6 | 1.2 | 2.0 |
| 12 | Chronic liver disease and cirrhosis (K70,K73–K74) | 31,903 | 1.3 | 10.3 | 9.4 | 3.3 | 2.1 | 0.7 |
| 13 | Essential hypertension and hypertensive renal disease (I10,I12,I15) | 26,634 | 1.1 | 8.6 | 8.0 | 2.6 | 1.0 | 2.4 |
| 14 | Parkinson's disease (G20–G21) | 22,032 | 0.9 | 7.1 | 6.8 | 4.6 | 2.3 | 0.4 |
| 15 | Pneumonitis due to solids and liquids (J69) | 17,011 | 0.7 | 5.5 | 5.1 | 4.1 | 1.9 | 0.9 |
| . . . | All other causes (residual) | 483,694 | 19.6 | 156.7 | . . . | . . . | . . . | . . . |

. . . Category not applicable.

[1]Rank based on number of deaths; see Technical Notes.

[2]Multiple-race data were reported by 37 states and the District of Columbia in 2010. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

## Death rates by age and sex

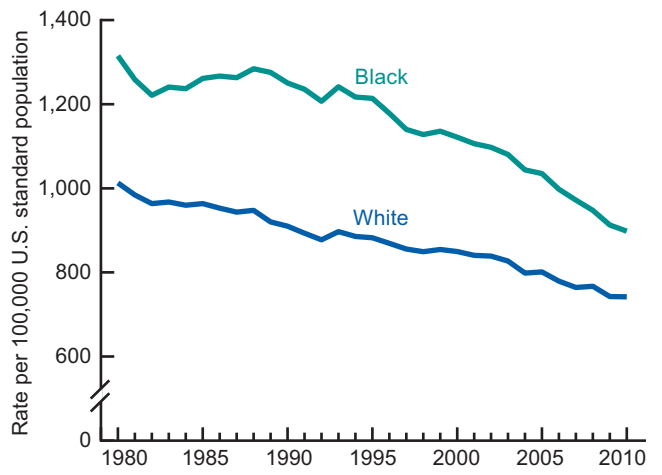
Age-specific death rates decreased in 2010 from 2009 for age groups under 1 year, 5–14, 15–24, 25–34, 35–44, 45–54, 55–64, 65–74, and 75–84. The only increase in age-specific death rates was for the age group 85 and over (Tables A, 3, 9, and 11; Figure 3).

The death rate for males declined for age groups under 1 year, 5–14, 15–24, 35–44, 45–54, 65–74, and 75–84. The changes in the rates for males aged 1–4, 25–34, and 55–64 were not significant. For females, the death rate declined for the age group under 1 year and for every age group from 5–14 through 75–84. The change for ages 1–4 was not significant. For both males and females, the only increase in death rate was among ages 85 and over.

*Race*—In 2010, the age-specific death rate declined for white males for age groups under 1 year, 15–24, 35–44, 45–54, and 75–84, and increased for the age group 85 and over (Table A). The largest statistically significant change for white males was the decrease of 4.7% for those aged 35–44. For the black male population in 2010, rates decreased for age groups under 1 year, 5–14, 25–34, 35–44, 45–54, and 55–64. The largest decrease for black males was for those aged 5–14, at 11.7%. For AIAN males in 2010, the only significant change in age-specific death rates was an 11.9% increase for the age group 85 and over. Rates for API males decreased for age groups 5–14, 35–44, and 45–54. Other observed changes for males by race were not statistically significant.

For white females, the death rate decreased in 2010 for those aged 35–44, 45–54, 55–64, 65–74, and 75–84, and increased for the age group 85 and over. The largest statistically significant decrease, 4.2%, was observed for the age group 35–44. Age-specific rates for black females decreased for age groups under 1 year, 5–14, 15–24, 35–44, 45–54, and 75–84, and increased for the age group 85 and over. The largest decrease for black females was 12.7% for the age group 5–14. In 2010, age-specific death rates for AIAN females decreased for age groups 5–14, 15–24, and 35–44. For API females, the only statistically significant change in age-specific rates was a 19.4% decrease for the age group 15–24. Other observed changes for females by race were not statistically significant.

*Hispanic origin*—For the Hispanic-origin population in 2010 compared with 2009 (Table C), the age-specific death rate decreased significantly for age groups 5–14, 15–24, 25–34, 35–44, and 45–54, and increased for the age group 85 and over. The largest decrease was for the age group 5–14, at 20.9%. Rates for Hispanic males decreased for age groups 5–14, 15–24, 25–34, 35–44, and 45–54, and increased for the age group 85 and over. The largest decrease was




NOTE: Rates for 2001–2009 are revised using updated intercensal population estimates and may differ from rates previously published; see Technical Notes.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Figure 2. Age-adjusted death rates, by race: United States, 1980–2010**

for the age group 5–14, at 19.1%. For Hispanic females, age-specific rates decreased by a statistically significant amount in 2010 from 2009 for those aged 1–4, 5–14, 15–24, 25–34, 35–44, and 75–84, and increased for the age group 85 and over. The largest decrease occurred for the age group 5–14, at 24.6%. Other observed changes were not statistically significant.

## Expectation of life at birth and at specified ages

Life expectancy at birth represents the average number of years that a group of infants would live if the group was to experience throughout life the age-specific death rates present in the year of birth.

Life expectancy data shown in this report for data years 2001–2009 have been updated using intercensal population estimates and may differ from data previously published (see Technical Notes). Life table data for 2001–2010 are based on a revised methodology first presented with final data reported for 2008. The life table methodology was revised by changing the smoothing technique used to estimate the life table functions at the oldest ages. This revision improves upon methodologies used previously; see Technical Notes.

The methods used to produce life expectancies for the Hispanic population are based on death rates adjusted for misclassification (see Technical Notes). In contrast, the age-specific and age-adjusted death rates shown in this report for the Hispanic population are not adjusted for misclassification because adjustment would be limited to age and sex. Information to adjust for misclassification of Hispanic origin by cause of death is not currently available. Thus, the report shows Hispanic deaths and death rates as collected by the registration areas; these match those produced using the mortality data file.

Life tables were generated for both sexes and by each sex for the following populations:

- Total U.S. population
- Black population
- White population
- Hispanic population
- Non-Hispanic white population
- Non-Hispanic black population

In 2010, life expectancy at birth for the U.S. population was 78.7 years, an increase of 0.2 year from 78.5 in 2009 (Tables 6 and 8). The trend in U.S. life expectancy since 1900 has been one of gradual improvement, with single-year decreases found occasionally. In 2010, the life expectancy for females was 81.0 years, a 0.1-year increase from 2009, and the life expectancy for males was 76.2, a 0.2-year increase from the previous year. From 1900 through the late 1970s, the gap in life expectancy between sexes widened (Figure 4) (4), from 2.0 years to 7.8 (data prior to 1975 are not shown). Since its peak in the 1970s, the gap between sexes has been narrowing. In 2010, the difference in life expectancy between the sexes was 4.8 years, a decrease of 0.1 year from 4.9 in 2009.

Life expectancy increased 0.4 year for the black population in 2010 to 75.1 years, compared with 2009 (74.7). Life expectancy for the white population increased 0.1 year to 78.9 years. The difference in life expectancy between the white and black populations in 2010 was 3.8 years, a 0.3-year decrease from the 2009 gap between the two races, and the smallest gap recorded since at least 1975 (Table 8). The white-black gap has been narrowing gradually from a peak of 7.1 years in 1993 to the current record low (Figure 4). This continues a long-term decline in the white-black difference in life expectancy that was interrupted from 1983 through 1993 when the gap widened.

Life expectancy for white males has increased or remained the same nearly every year since 1975 (Figure 5). In contrast, life expectancy for black males declined every year from 1985 through 1989, then resumed the long-term trend of increase for most years from 1990 through 2010 (Table 8). For white females, life expectancy increased most years from 1975 through 1998. In 1999, life expectancy for white females briefly fell slightly below 1998's then-record high, but began to increase again in 2001. From 1989 through 1992, during 1994, and from 1996 through 1998, life expectancy for black females increased. In 1999, life expectancy for black females declined as it did for white females, only to begin climbing again in 2000.

Life expectancy for the Hispanic population increased 0.1 year in 2010 to 81.2 years compared with 2009 (Tables 7 and 8). Life expectancy figures for the Hispanic population have been available starting with data for 2006 (14). Since that year, life expectancy for the Hispanic population has increased by 0.9 year. In 2010, life expectancy for the Hispanic female population was 83.8 years. Life expectancy for the Hispanic male population in 2010 was 78.5. The difference in life expectancy between the sexes for the Hispanic population was 5.3 years.

Among the six Hispanic origin-race-sex groups (Tables 7 and 8), Hispanic females have the highest life expectancy at birth (83.8 years), followed by non-Hispanic white females (81.1), Hispanic males (78.5), non-Hispanic black females (77.7), non-Hispanic white males (76.4), and non-Hispanic black males (71.4). Differences in life expectancy measured across these six groups ranged from 0.8 year (the difference in life expectancy between Hispanic males and non-Hispanic black

**Table C. Percentage change in death rates and age-adjusted death rates in 2010 from 2009, by age, Hispanic origin, race for non-Hispanic population, and sex: United States**

[Based on death rates on an annual basis per 100,000 population, and age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for 2010 and estimated as of July 1 for 2009 using revised intercensal estimates. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race. Data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Age (years) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white | | | Non-Hispanic black | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Percent change | | | | | | | | | | | | | | |
| All ages | | | | | | | | | | | | | | | |
| Crude | 0.6 | 0.6 | 0.7 | –0.3 | –0.3 | –0.2 | 0.9 | 0.9 | 1.0 | 1.2 | 1.2 | 1.2 | –0.7 | –1.1 | –0.2 |
| Age-adjusted | –0.3 | –0.4 | –0.3 | –0.2 | 0.3 | –0.6 | –0.3 | –0.4 | –0.2 | 0.0 | –0.1 | 0.0 | –1.5 | –1.6 | –1.3 |
| Under 1 year[3] | –5.5 | –6.2 | –4.6 | –2.8 | –2.2 | –3.6 | –6.1 | –7.0 | –5.0 | –3.9 | –4.7 | –2.8 | –9.6 | –11.6 | –7.0 |
| 1–4 | –3.3 | –1.7 | –5.3 | –8.1 | –3.5 | –13.7 | –1.8 | –0.6 | –2.4 | –1.2 | –2.8 | 0.9 | –5.4 | 0.7 | –12.3 |
| 5–14 | –6.5 | –6.4 | –7.5 | –20.9 | –19.1 | –24.6 | –2.9 | –3.1 | –2.5 | 1.6 | 0.7 | 3.8 | –11.7 | –11.5 | –11.4 |
| 15–24 | –3.0 | –2.4 | –4.5 | –9.5 | –9.4 | –9.6 | –1.4 | –0.6 | –3.2 | –1.0 | –1.1 | –0.5 | –1.2 | 0.7 | –6.7 |
| 25–34 | –1.4 | –0.8 | –2.4 | –6.5 | –5.8 | –8.5 | –0.4 | 0.2 | –1.4 | 0.5 | 1.1 | –1.0 | –3.9 | –3.6 | –4.5 |
| 35–44 | –5.3 | –5.8 | –4.4 | –7.5 | –7.8 | –7.2 | –4.7 | –5.2 | –3.7 | –3.7 | –3.9 | –3.3 | –6.7 | –8.8 | –3.8 |
| 45–54 | –2.6 | –2.8 | –2.4 | –5.4 | –6.6 | –3.1 | –2.2 | –2.2 | –2.2 | –1.6 | –1.4 | –1.9 | –4.9 | –5.7 | –3.9 |
| 55–64 | –0.6 | –0.3 | –1.0 | –0.8 | –0.5 | –1.5 | –0.5 | –0.2 | –1.0 | –0.4 | 0.1 | –1.1 | –1.8 | –2.3 | –1.2 |
| 65–74 | –0.7 | –0.7 | –0.8 | –1.2 | –0.8 | –1.9 | –0.7 | –0.7 | –0.8 | –0.6 | –0.6 | –0.8 | –1.1 | –1.4 | –0.9 |
| 75–84 | –0.6 | –0.6 | –0.8 | –0.7 | 1.5 | –2.9 | –0.6 | –0.6 | –0.7 | –0.5 | –0.7 | –0.5 | –1.0 | 0.1 | –2.1 |
| 85 and over | 2.0 | 1.8 | 2.1 | 4.7 | 4.9 | 4.5 | 1.9 | 1.7 | 2.0 | 2.0 | 1.7 | 2.1 | 1.6 | 1.0 | 1.8 |

[1]Figures for origin not stated are included in "All origins" but not distributed among specified origins.
[2]Includes races other than white and black.
[3]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births).

females) to 12.4 years (the difference in life expectancy between Hispanic females and non-Hispanic black males).

Life expectancy data by race include persons of Hispanic and non-Hispanic origin; life expectancy data by Hispanic origin include persons of any race. Life expectancy is higher when the Hispanic population is included in the race group. For example, life expectancy was 75.1 years for the black population, but 74.7 for the non-Hispanic black population. Similarly, life expectancy for the white population was 78.9, but 78.8 for the non-Hispanic white population. Life expectancy for males and for females was more than 2 years higher for the Hispanic population than for the non-Hispanic population. Various hypotheses have been proposed to explain favorable mortality outcomes among Hispanic persons. The most prevalent hypotheses are the healthy migrant effect, which argues that Hispanic immigrants are selected for their good health and robustness, and the "salmon bias" effect, which posits that U.S. residents of Hispanic origin may return to their country of origin to die or when ill (15,16).

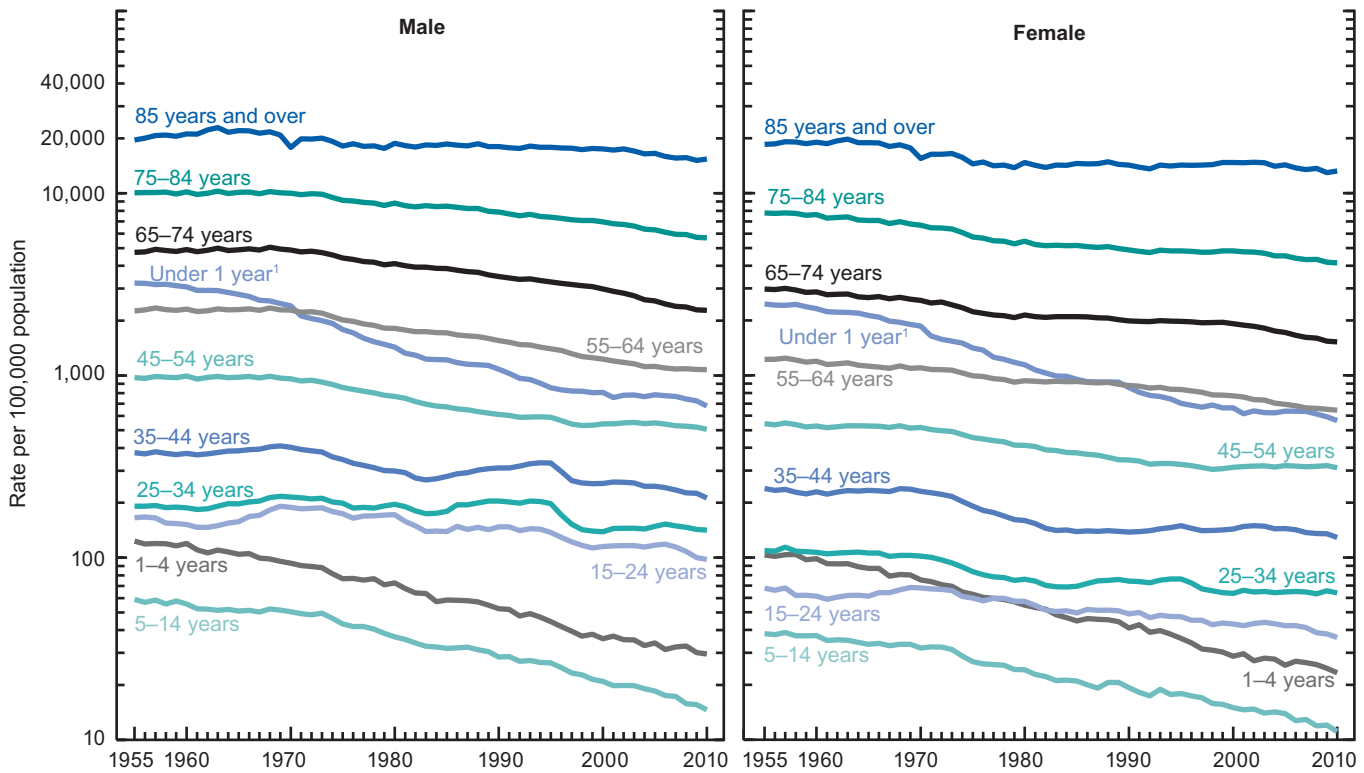
Life tables shown in this report may be used to compare life expectancies at selected ages from birth to 100 years. For example, on the basis of mortality experienced in 2010, a person aged 50 could expect to live an average of 31.4 more years for a total of 81.4 years. A person aged 65 could expect to live an average of 19.1 more years for a total of 84.1, and a person aged 85 could expect to live an average of 6.5 more years for a total of 91.5 (Table 6).

## Leading causes of death

The 15 leading causes of death in 2010 accounted for 80.4% of all deaths in the United States (Tables B and 9). Causes of death are ranked according to the number of deaths; for ranking procedures, see Technical Notes. By rank, the 15 leading causes in 2010 were:

1. Diseases of heart (heart disease)
2. Malignant neoplasms (cancer)
3. Chronic lower respiratory diseases
4. Cerebrovascular diseases (stroke)
5. Accidents (unintentional injuries)
6. Alzheimer's disease
7. Diabetes mellitus (diabetes)
8. Nephritis, nephrotic syndrome and nephrosis (kidney disease)
9. Influenza and pneumonia
10. Intentional self-harm (suicide)
11. Septicemia
12. Chronic liver disease and cirrhosis
13. Essential hypertension and hypertensive renal disease (hypertension)
14. Parkinson's disease
15. Pneumonitis due to solids and liquids

The leading causes of death in 2010 remained the same as in 2009 for 14 of the 15 leading causes, although two causes exchanged ranks. Nephritis, nephrotic syndrome and nephrosis (kidney disease), the 9th leading cause in 2009, became the 8th leading cause in 2010, while Influenza and pneumonia, the 8th leading cause in 2009, became the 9th leading cause of death in 2010. Assault (homicide) was replaced by Pneumonitis due to solids and liquids as the 15th leading cause of death in 2010.




[1]Rates are based on population estimates, which differ from infant mortality rates (based on live births); see Figure 7 for infant mortality rates and Technical Notes for further discussion of the difference.
NOTE: Rates for 2001–2009 are revised using updated intercensal population estimates and may differ from rates previously published; see Technical Notes.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Figure 3. Death rates, by age and sex: United States, 1955–2010**

The pattern of mortality varies greatly with age. As a result, the shifting age distribution of a population can significantly influence changes in crude death rates over time. Age-adjusted death rates, in contrast, eliminate the influence of such differences in the population age structure. Therefore, whereas causes of death are ranked according to the number of deaths, age-adjusted death rates are used to depict trends for leading causes of death in this report, as they are better than crude rates for showing changes in mortality over time and among causes of death (Figure 6).

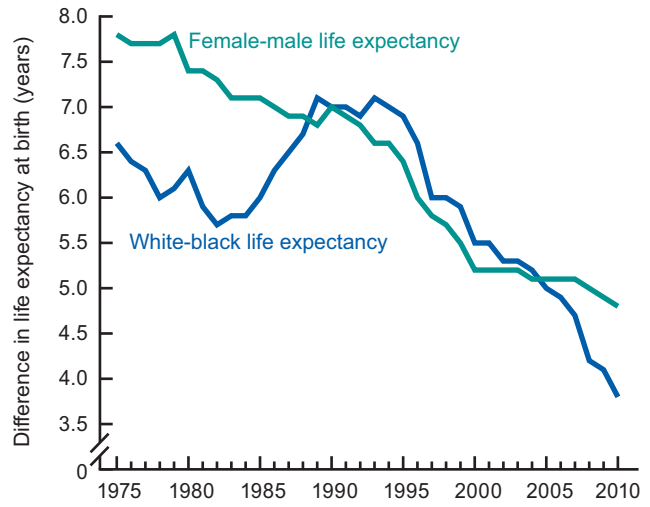
Although the number of deaths increased in 2010 from 2009 by 1.3%, or 31,272 more deaths (Table 1), the age-adjusted death rate for all causes decreased 0.3%.

From 2009 to 2010, the age-adjusted death rate declined significantly for 6 of the 15 leading causes of death. The age-adjusted death rate for the leading cause of death, heart disease, decreased 2.0%, and the age-adjusted death rate for cancer decreased 0.4% (Tables B and 9). Deaths from these two diseases combined accounted for 47.5% of deaths in the United States in 2010. Except for a relatively small increase in 1993, mortality from heart disease has steadily declined since 1980 (Figure 6). The age-adjusted death rate for cancer, the second leading cause of death, has shown a gradual but consistent downward trend since 1993 (Figure 6).

Other leading causes of death that showed significant decreases in 2010 relative to 2009 were: Chronic lower respiratory diseases (1.2%), stroke (1.3%), Influenza and pneumonia (8.5%), and Septicemia (3.6%).

The age-adjusted death rate increased significantly between 2009 and 2010 for eight leading causes: unintentional injuries ( 1.3%), Alzheimer's disease (3.7%), kidney disease (1.3%), suicide (2.5%), Chronic liver disease and cirrhosis (3.3%), hypertension (2.6%), Parkinson's disease (4.6%), and Pneumonitis due to solids and liquids (4.1%).

Generally, findings based on preliminary data are consistent with findings based on final data (2). However, estimates of cause of death based on preliminary data may differ from final data, particularly for causes of death that are pending investigation. Deaths from unintentional injuries were significantly affected by inclusion, in the final file, of additional information for approximately 4,200 records that was not available when preliminary data were processed. As a result, the increase from 2009 to 2010 in the age-adjusted death rate for unintentional injuries (based on final data for 2010) is inconsistent with findings that were based on preliminary data (2).

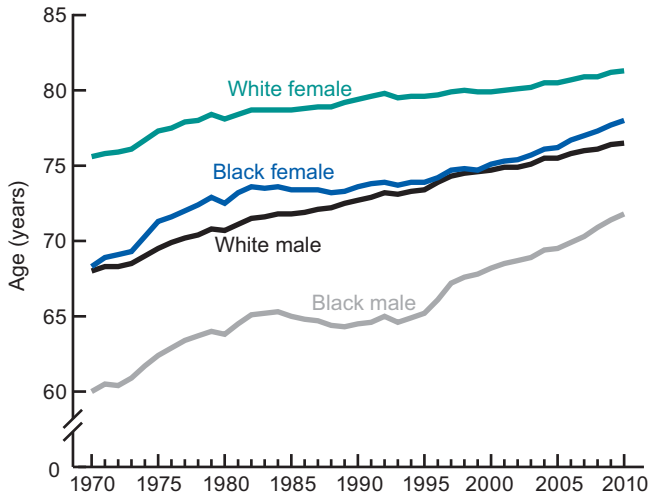



NOTE: Life expectancies for 2001–2009 were calculated using updated intercensal population estimates and a revised methodology. Therefore, figures may differ from those previously published; see Technical Notes.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Figure 4. Differences in female-male and white-black life expectancy: United States, 1975–2010**

The observed change from 2009 to 2010 in the age-adjusted death rate for diabetes was not significant.

Homicide, the 16th leading cause of death in 2010, dropped from among the 15 leading causes of death for the first time since 1965. The age-adjusted death rate for homicide (5.3 per 100,000 standard population) fell to its lowest since 1962, decreasing 3.6% from 2009 to 2010.




NOTE: Life expectancies for 2001–2009 were calculated using updated intercensal population estimates and a revised methodology. Therefore, figures may differ from those previously published; see Technical Notes.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

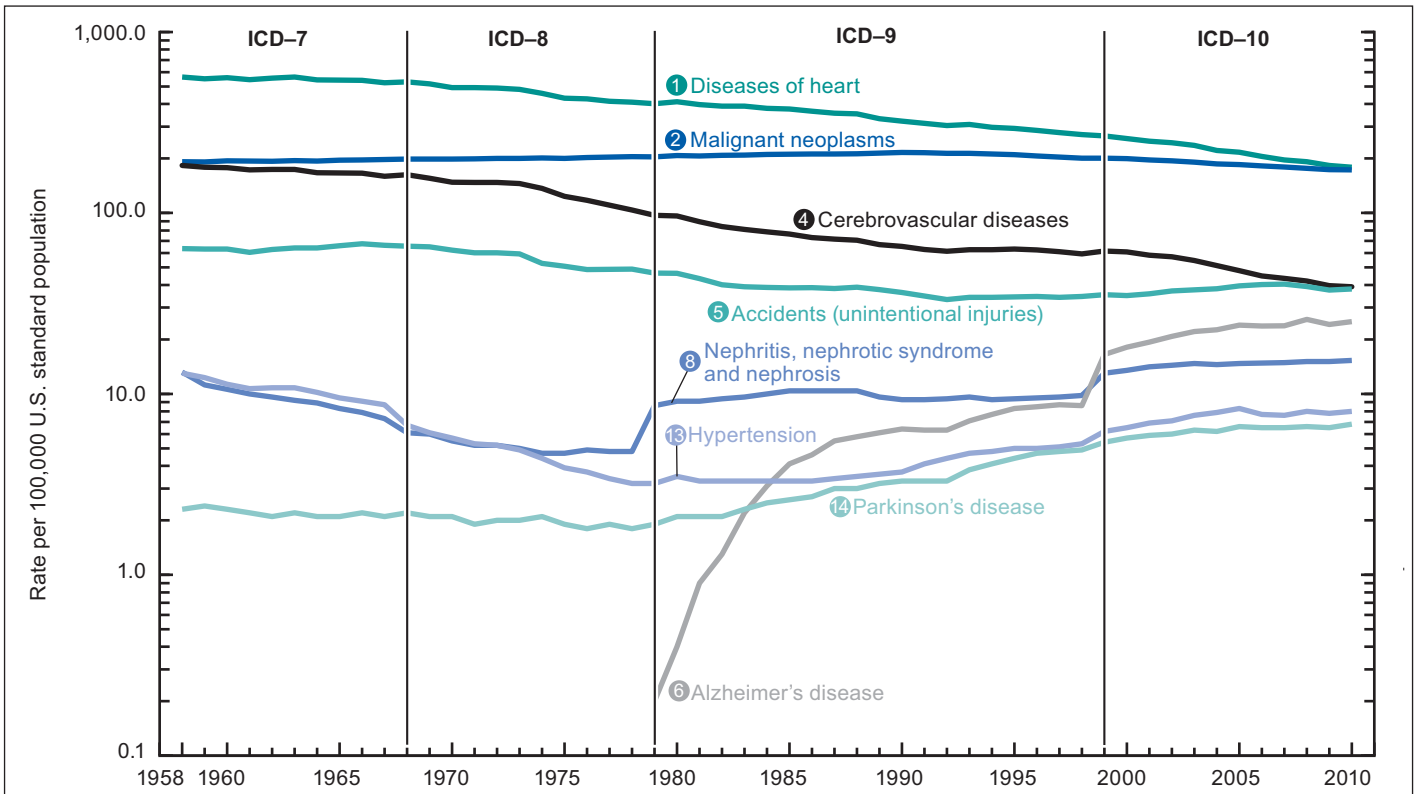
**Figure 5. Life expectancy, by race and sex: United States, 1970–2010**

Although Human immunodeficiency virus (HIV) disease has not been among the 15 leading causes of death since 1997 (17), it is still considered a major public health problem for some age groups. Historically, for all ages combined, HIV disease mortality reached its highest level in 1995 after a period of increase from 1987 through 1994. Subsequently, the rate for this disease decreased an average of 33.0% per year from 1995 through 1998, and 6.2% per year from 1999 through 2010 (18). In 2010, HIV disease remained among the 15 leading causes of death for age groups 15–24, 25–34, 35–44, 45–54, and 55–64. Between 2009 and 2010, the ranking of HIV disease for these age groups changed only for those aged 35–44—dropping from the 7th leading cause in 2009 to the 8th leading cause in 2010 (19).

Enterocolitis due to *Clostridium difficile* (*C. difficile*)—a predominantly antibiotic-associated inflammation of the intestines caused by *C. difficile*, a gram-positive, anaerobic, spore-forming bacillus—is of growing concern. The disease is often acquired in hospitals or other health-care facilities with long-term patients or residents, and accounted for an increasing number of deaths each year from 1999 through 2008 (20–22). In 1999, 793 deaths were due to *C. difficile*, compared with 7,476 deaths in 2008 (22). Dropping slightly in recent years, the number of deaths was 7,251 in 2009 and 7,298 in 2010 (19). In 2010, the age-adjusted death rate for this cause was 2.2 deaths per 100,000 standard population, unchanged from the rate in 2009 but lower than the peak rate of 2.4 observed in 2008. In 2010, *C. difficile* ranked as the 18th leading cause of death for the population aged 65 and over. More than 91% of deaths from *C. difficile* occurred to people aged 65 and over (Table 10).

Changes in mortality levels by age and cause of death have a major effect on changes in life expectancy. Life expectancy at birth increased 0.2 year in 2010 from 2009 because of decreases in mortality from heart disease, Influenza and pneumonia, and cancer. Increases in life expectancy in 2010 from 2009 for the total population were slightly offset by increases in mortality from suicide, Alzheimer's disease, and Chronic liver disease and cirrhosis. (In other words, if mortality for these causes of death had not increased as much as they did in 2010, the increase in life expectancy for the total population would have been more than 0.2 year.) Decreases in mortality from heart disease, Influenza and pneumonia, and cancer generated an increase in life expectancy among the male population. This increase in life expectancy for males was offset somewhat by increases in mortality from suicide and Chronic liver disease and cirrhosis. Similarly, the increase in life expectancy for the female population was mainly brought about by decreases in mortality from heart disease, Influenza and pneumonia, and cancer. For females, however, the increase in life expectancy was offset slightly by increases in mortality from unintentional injuries and Alzheimer's disease. (For discussion of contributions to the change in life expectancy, see Technical Notes.)

The relative risk of death in one population group compared with another can be expressed as a ratio. Ratios based on age-adjusted death rates show that males have higher rates than females for 12 of the 15 leading causes of death (Table B), with rates for males at least two times greater than those for females for 4 of these leading causes. The largest ratio was for suicide (4.0). Other large ratios were




NOTES: ICD is the *International Classification of Diseases*. Circled numbers indicate ranking of conditions as leading causes of death in 2010. Rates for 2001–2009 are revised using updated intercensal estimates and may differ from rates previously published; see Technical Notes.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Figure 6. Age-adjusted death rates for selected leading causes of death: United States, 1958–2010**

evident for Parkinson's disease (2.3), Chronic liver disease and cirrhosis (2.1), unintentional injuries (2.0), Pneumonitis due to solids and liquids (1.9), heart disease (1.6), and kidney disease, cancer, diabetes, and Influenza and pneumonia (1.4 each).

Age-adjusted death rates for the black population were higher than those for the white population for 8 of the 15 leading causes of death (Table B). The largest ratio was for hypertension, at 2.4. Other causes for which the ratio was high include kidney disease (2.1), diabetes and Septicemia (2.0 each), stroke (1.4), heart disease (1.3), cancer (1.2), and Influenza and pneumonia (1.1). For 7 of the leading causes, age-adjusted rates were lower for the black population than for the white population. The smallest black-to-white ratios were for suicide and Parkinson's disease (0.4 each); that is, the risk of dying from suicide was more than double for the white population than for the black population. Other conditions with a low black-to-white ratio were Chronic lower respiratory diseases and Chronic liver disease and cirrhosis (0.7 each), unintentional injuries and Alzheimer's disease (0.8 each), and Pneumonitis due to solids and liquids (0.9).

The difference in life expectancy between the black and white populations narrowed from 4.1 years in 2009 to 3.8 in 2010 (Table 8). The narrowing in the black-white life expectancy gap was due primarily to greater improvements in mortality for the black population than for the white population. In particular, the black population gained ground due to decreases in death rates for heart disease, Certain conditions originating in the perinatal period, HIV disease, unintentional injuries, and kidney disease (data not shown).

Death rates for the AIAN population are not adjusted for misclassification. Given that the rates for the AIAN population are underestimated by about 30% (12), disparities in the age-adjusted death rates should be interpreted with caution whenever making comparisons across races.

For the API population, death rates are not adjusted for misclassification and are underestimated by about 7% due to underreporting on death certificates (12). Therefore, even though the level of underestimation for this population is not as great as that for the AIAN population, similar caution should be exercised when interpreting rate disparities involving the API population and other races.

Death rates for the population of Hispanic origin are not adjusted for misclassification (see Technical Notes). Because these rates are both unadjusted for misclassification and underestimated by about 5.0% (12), caution should be exercised when interpreting rate disparities involving the Hispanic population and other races.

Life table partitioning analysis indicates that the difference of 2.4 years in life expectancy between the Hispanic and non-Hispanic white populations is mostly explained by lower death rates from cancer, heart disease, Chronic lower respiratory diseases, unintentional injuries, and suicide experienced by the Hispanic population. (For discussion of contributions to the difference in life expectancy, see Technical Notes.)

Leading causes of death for the total population in 2010 and for specific subpopulations are examined in more detail in a forthcoming *National Vital Statistics Report* on leading causes by age, race, Hispanic origin, and sex (3).

## Injury mortality by mechanism and intent

In 2010, a total of 180,811 deaths were classified as injury related (Table 18). Injury data are presented using the external cause-of-injury mortality matrix for ICD–10 as jointly conceived by the International Collaborative Effort (ICE) on Injury Statistics and the Injury Control and Emergency Health Services section, known as ICEHS, of the American Public Health Association (23,24). The ICD codes for injuries have two essential dimensions: the mechanism of the injury and its manner or intent. The mechanism involves the circumstances of the injury (e.g., fall, motor vehicle traffic, or poisoning). The manner or intent involves whether the injury was purposefully inflicted (where it can be determined) and, when intentional, whether the injury was self-inflicted (suicide) or inflicted upon another person (assault). In the List of 113 Selected Causes of Death, the focus is on manner or intent, with subcategories showing selected mechanisms. The matrix has two distinct advantages for the analysis of injury mortality data: It contains a comprehensive list of mechanisms, and data can be displayed by mechanism with subcategories of intent, or vice versa. Four major mechanisms of injury in 2010—poisoning, motor vehicle traffic, firearm, and fall—accounted for 74.7% of all injury deaths.

*Poisoning*—In 2010, 42,917 deaths occurred as the result of poisonings, 23.7% of all injury deaths (Table 18). The majority of poisoning deaths were either unintentional (77.0%) or suicides (15.4%). However, 7.4% of poisoning deaths were of undetermined intent. The age-adjusted death rate for poisoning increased 2.2% from 13.4 deaths per 100,000 U.S. standard population in 2009 to 13.7 in 2010. The age-adjusted death rate for unintentional poisoning increased 2.9% from 10.3 in 2009 to 10.6 in 2010. Unintentional poisoning death rates in the United States have increased each year since 1999, although the change from 2008 to 2009 was not significant (data prior to 2010 are not shown but are available through CDC Wonder at http://wonder.cdc.gov/).

*Motor vehicle traffic*—In 2010, motor vehicle traffic-related injuries resulted in 33,687 deaths, accounting for 18.6% of all injury deaths (Table 18). The age-adjusted death rate for these injuries decreased 3.6% from 11.1 per 100,000 standard population in 2009 to 10.7 in 2010.

*Firearm*—In 2010, 31,672 persons died from firearm injuries in the United States (Tables 18 and 19), accounting for 17.5% of all injury deaths in that year. The two major component causes of all firearm injury deaths in 2010 were suicide (61.2%) and homicide (35.0%). The age-adjusted death rate from firearm injuries (all intents) was 10.1 in 2010, unchanged from the rate in 2009 (see Internet Tables I–1 and I–2, available from http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04_tables.pdf). The age-adjusted death rate for firearm suicide increased 3.4% in 2010 from 2009, whereas the death rate for firearm homicide decreased 5.3%.

*Fall*—In 2010, 26,852 persons died as the result of falls, 14.9% of all injury deaths (Table 18). The overwhelming majority of fall-related deaths (96.9%) were unintentional. In 2010, the age-adjusted death rate for falls increased 2.5% from 2009.

## Drug-induced mortality

In 2010, a total of 40,393 persons died of drug-induced causes in the United States (Tables 10, 12, and 13). This category includes deaths from poisoning and medical conditions caused by use of legal or illegal drugs, as well as deaths from poisoning due to medically prescribed and other drugs. It excludes unintentional injuries, homicides, and other causes indirectly related to drug use, as well as newborn deaths due to the mother's drug use. (For a list of drug-induced causes, see Technical Notes. See also the discussion of poisoning mortality that uses the more narrow definition of poisoning as an injury in the preceding "Injury mortality by mechanism and intent" section.)

In 2010, the age-adjusted death rate for drug-induced causes for the U.S. population increased 2.4%, from 12.6 in 2009 to 12.9 in 2010 (Internet Tables I–3 and I–4). For males in 2010, the age-adjusted death rate for drug-induced causes was 1.6 times the rate for females. The age-adjusted death rate for black females was 45.6% lower than the rate for white females, and the rate for black males was 34.5% lower than the rate for white males.

Among the major race-sex and race-ethnicity-sex groups, the age-adjusted death rate for drug-induced causes increased significantly in 2010 from 2009 for white males (2.3%), white females (6.5%), non-Hispanic white males (3.1%), and non-Hispanic white females (6.6%), and decreased significantly for black males (6.5%), AIAN males (16.3%), and non-Hispanic black males (7.0%). Other major race-sex and race-ethnicity-sex groups did not change significantly.

## Alcohol-induced mortality

In 2010, a total of 25,692 persons died of alcohol-induced causes in the United States (Tables 10, 12, and 13). This category includes deaths from dependent and nondependent use of alcohol, as well as deaths from accidental poisoning by alcohol. It excludes unintentional injuries, homicides, and other causes indirectly related to alcohol use, as well as deaths due to fetal alcohol syndrome (for a list of alcohol-induced causes, see Technical Notes).

The age-adjusted death rate for alcohol-induced causes for the total population increased 2.7%, from 7.4 in 2009 to 7.6 in 2010 (Internet Tables I–5 and I–6). For males, the age-adjusted death rate for alcohol-induced causes in 2010 was three times the rate for females. Compared with the rate for the white population, the rate for the black population was 26.3% lower.

Among the major race-sex and race-ethnicity-sex groups, the age-adjusted death rate increased in 2010 from 2009 for white males (4.3%), AIAN males (19.9%), and non-Hispanic white males (4.5%). No other major race-sex and race-ethnicity-sex groups experienced significant changes.

## State of residence

Mortality patterns vary considerably by state (Table 19). The state with the highest age-adjusted death rate in 2010 was Mississippi (962.0 per 100,000 U.S. standard population), with a rate 28.8% above the national average (747.0). The state with the lowest age-adjusted death rate was Hawaii (589.6 per 100,000 standard population), with a rate 21.1% below the national average. The age-adjusted death rate for Mississippi was 63.2% higher than the rate for Hawaii.

Variations in mortality by state are associated with differences in socioeconomic status, race, and ethnic composition, as well as with differences in risk for specific causes of death (25).

## Infant mortality

In 2010, a total of 24,586 deaths occurred in children under age 1 year (Table D). This number represents 1,826 fewer infant deaths in 2010 than in 2009. The infant mortality rate was 6.15 per 1,000 live births, the neonatal mortality rate (deaths of infants aged 0–27 days per 1,000 live births) was 4.05, and the postneonatal mortality rate (deaths of infants aged 28 days–11 months per 1,000 live births) was 2.10 in 2010 (Figure 7; see Technical Notes for information on alternative data sources). From 2009 to 2010, the infant mortality rate decreased 3.8%, the neonatal mortality rate decreased 3.1%, and the postneonatal mortality rate decreased 5.4%.

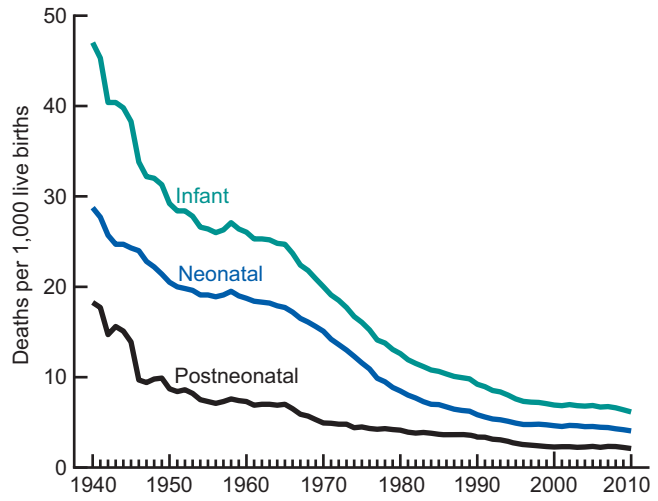
The 10 leading causes of infant death in 2010 accounted for 69.5% of all infant deaths in the United States (Table E). By rank, the 10 leading causes were:

1. Congenital malformations, deformations and chromosomal abnormalities
2. Disorders related to short gestation and low birth weight, not elsewhere classified
3. Sudden infant death syndrome
4. Newborn affected by maternal complications of pregnancy
5. Accidents (unintentional injuries)
6. Newborn affected by complications of placenta, cord and membranes
7. Bacterial sepsis of newborn
8. Respiratory distress of newborn
9. Diseases of the circulatory system
10. Necrotizing enterocolitis of newborn

In 2010, the leading causes of infant death remained the same as in 2009 for 9 of the 10 leading causes. Necrotizing enterocolitis of newborn became the 10th leading cause of infant death in 2010, while Neonatal hemorrhage dropped from among the top 10 leading causes (19).

Changes in rates by cause of death among the 10 leading causes were statistically significant for only one condition. In 2010, Disorders related to short gestation and low birth weight, not elsewhere classified (second leading cause of infant death) decreased 5.6% from 2009 (Table E).

Race cited on the death certificate is considered to be relatively accurate for white and black infants (12). For other race groups, however, race may be misreported on the death certificate (26). Generally, infant mortality rates calculated from the linked file of live births and infant deaths provide better measures of infant mortality by race (26); see Technical Notes. In addition, infant mortality rates by specified Hispanic origin and race for non-Hispanic origin can be somewhat understated and are better measured using data from the linked file of live births and infant deaths (26); see Technical Notes.




NOTE: Rates are infant (under 1 year), neonatal (under 28 days), and postneonatal (28 days–11 months) deaths per 1,000 live births in specified group.
SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

**Figure 7. Infant, neonatal, and postneonatal mortality rates: United States, 1940–2010**

**Table D. Number of infant, neonatal, and postneonatal deaths and mortality rates, by sex: United States, 2009–2010**

[Rates are infant (under 1 year), neonatal (under 28 days), and postneonatal (28 days–11 months) deaths per 1,000 live births in specified group]

| Infant age and sex | 2010 Number | 2010 Rate | 2009 Number | 2009 Rate | Percent change[1] from 2009 to 2010 |
|---|---|---|---|---|---|
| **Infant** | | | | | |
| Total | 24,586 | 6.15 | 26,412 | 6.39 | –3.8 |
| Male | 13,702 | 6.69 | 14,823 | 7.01 | –4.6 |
| Female | 10,884 | 5.57 | 11,589 | 5.75 | –3.1 |
| **Neonatal** | | | | | |
| Total | 16,188 | 4.05 | 17,255 | 4.18 | –3.1 |
| Male | 8,953 | 4.37 | 9,578 | 4.53 | –3.5 |
| Female | 7,235 | 3.71 | 7,677 | 3.81 | –2.6 |
| **Postneonatal** | | | | | |
| Total | 8,398 | 2.10 | 9,157 | 2.22 | –5.4 |
| Male | 4,749 | 2.32 | 5,245 | 2.48 | –6.5 |
| Female | 3,649 | 1.87 | 3,912 | 1.94 | –3.6 |

[1]Based on a comparison of the 2010 and 2009 mortality rates.

**Table E. Number of infant deaths, percentage of total infant deaths, and infant mortality rates for 2010, and percentage change in infant mortality rates from 2009 to 2010 for the 10 leading causes of infant death in 2010: United States**

[Rates are infant deaths per 100,000 live births]

| Rank[1] | Cause of death (based on ICD–10, 2004) | Number | Percent of total deaths | Rate | Percent change[2] from 2009 to 2010 |
|---|---|---|---|---|---|
| . . . | All causes | 24,586 | 100.0 | 614.7 | –3.9 |
| 1 | Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 5,107 | 20.8 | 127.7 | –0.9 |
| 2 | Disorders related to short gestation and low birth weight, not elsewhere classified (P07) | 4,148 | 16.9 | 103.7 | –5.6 |
| 3 | Sudden infant death syndrome (R95) | 2,063 | 8.4 | 51.6 | –4.3 |
| 4 | Newborn affected by maternal complications of pregnancy (P01) | 1,561 | 6.3 | 39.0 | 0.3 |
| 5 | Accidents (unintentional injuries) (V01–X59) | 1,110 | 4.5 | 27.8 | –2.8 |
| 6 | Newborn affected by complications of placenta, cord and membranes (P02) | 1,030 | 4.2 | 25.8 | 0.0 |
| 7 | Bacterial sepsis of newborn (P36) | 583 | 2.4 | 14.6 | –7.6 |
| 8 | Respiratory distress of newborn (P22) | 514 | 2.1 | 12.9 | –10.4 |
| 9 | Diseases of the circulatory system (I00–I99) | 507 | 2.1 | 12.7 | –9.9 |
| 10 | Necrotizing enterocolitis of newborn (P77) | 472 | 1.9 | 11.8 | 0.9 |
| . . . | All other causes (residual) | 7,491 | 30.5 | 187.3 | . . . |

. . . Category not applicable.

[1]Based on number of deaths; see Technical Notes.

[2]Based on a comparison of the 2010 infant mortality rate with the 2009 infant mortality rate.

Infant mortality data presented in this report use the general mortality file, not the linked file of live births and infant deaths.

The ratio of male-to-female infant mortality rates was 1.2—the same as in 2009. The ratio of black-to-white infant mortality rates was 2.2 in 2010—a decrease from the ratio of 2.4 in 2009. The infant mortality rate did not change significantly in 2010 from 2009 for white infants, but decreased 8.0% for black infants (Table 20).

*Hispanic infant mortality*—Infant mortality rates for the population of Hispanic origin are not adjusted for misclassification; see Technical Notes. Because these rates are both unadjusted for misclassification and underestimated by about 5.0%, caution should be exercised when interpreting rate disparities involving the Hispanic population and other races (12). In 2010, the infant mortality rate for Hispanic infants was 5.47 deaths per 1,000 live births. By comparison, for non-Hispanic white infants, the infant mortality rate was 5.10; and for non-Hispanic black infants, the infant mortality rate was 11.99 (data not shown). Among Hispanic subgroups, the infant mortality rate was 7.58 per 1,000 live births for Puerto Rican, 5.83 for Mexican, 4.92 for Cuban, and 3.41 for Central and South American populations. The infant mortality rate for the Hispanic population did not change significantly in 2010 from 2009 (5.43). The infant mortality rate decreased in 2010 from 2009 by 2.8% for non-Hispanic white and by 8.3% for non-Hispanic black populations.

## Additional mortality tables

For data year 2010, trend data on drug-induced causes, alcohol-induced causes, and injury by firearms are available as supplemental tables (Internet Tables I–1 through I–6) from the NCHS website at http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04_tables.pdf. Similarly, mortality data by educational attainment, marital status, and injury at work are also available as supplemental tables (Internet Tables I–7 through I–10).

## References


1. Hoyert DL, Singh GK, Rosenberg HM. Sources of data on socioeconomic differential mortality in the United States. Jour Off Stat 11(3):233–60. 1995.
2. Murphy SL, Xu JQ, Kochanek KD. Deaths: Preliminary Data for 2010. National vital statistics reports; vol 60 no 4. Hyattsville, MD: National Center for Health Statistics. 2012. Available from http://www.cdc.gov/nchs/data/nvsr/nvsr60/nvsr60_04.pdf.
3. Heron M. Deaths: Leading causes for 2010. National vital statistics reports. Hyattsville, MD: National Center for Health Statistics [forthcoming].
4. Arias E. United States life tables, 2010. National vital statistics reports. Hyattsville, MD: National Center for Health Statistics [forthcoming].
5. National Center for Health Statistics. Technical appendix. Vital statistics of the United States: Mortality. Washington, DC. Published annually. Available from: http://www.cdc.gov/nchs/products/vsus.htm.
6. World Health Organization. International statistical classification of diseases and related health problems, 10th revision. 2nd edition. Geneva, Switzerland. 2004.
7. National Center for Health Statistics. Estimates of the April 1, 2010 resident population of the United States, by county, single-year of age (0, 1, 2, ..., 85 years and over), bridged-race, Hispanic origin, and sex. Prepared under a collaborative agreement with the U.S. Census Bureau. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm as of November 17, 2011.
8. National Center for Health Statistics. Revised intercensal estimates of the resident population of the United States for July 1, 2001–July 1, 2009, by year, county, single-year of age (0, 1, 2, ..., 85 years and over), bridged-race, Hispanic origin, and sex. Prepared under a collaborative agreement with the U.S. Census Bureau; released by NCHS on October 26, 2012. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm.
9. Office of Management and Budget. Revisions to the standards for the classification of federal data on race and ethnicity. Fed Regist 62FR58782. Washington, DC. 1997. Available from: http://federalregister.gov/a/97-28653.

10. Ingram DD, Parker JD, Schenker N, et al. United States Census 2000 population with bridged race categories. National Center for Health Statistics. Vital Health Stat 2(135). 2003. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_135.pdf.
11. Kochanek K, Maurer J, Rosenberg H. Causes of death contributing to changes in life expectancy: United States, 1984–89. National Center for Health Statistics. Vital Health Stat 20(23). 1994. Available from: http://www.cdc.gov/nchs/data/series/sr_20/sr20_023.pdf.
12. Arias E, Schauman WS, Eschbach K, et al. The validity of race and Hispanic origin reporting on death certificates in the United States. National Center for Health Statistics. Vital Health Stat 2(148). 2008. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_148.pdf.
13. Arias E, Eschbach K, Schauman WS, Backlund EL, Sorlie PD. The Hispanic mortality advantage and ethnic misclassification on US death certificates. Am J Public Health 100 Suppl 1:S171–7. 2010. Available from: http://ajph.aphapublications.org/doi/pdf/10.2105/AJPH.2008.135863.
14. Arias E. United States life tables by Hispanic origin. National Center for Health Statistics. Vital Health Stat 2(152). 2010. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_152.pdf.
15. Abraido-Lanza AF, Dohrenwend BP, Ng-Mak DS, Turner JB. The Latino mortality paradox: A test of the "salmon bias" and healthy migrant hypotheses. Am J Public Health 89(10):1543–8. 1999. Available from: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1508801/pdf/amjph00010-0085.pdf.
16. Palloni A, Arias E. Paradox lost: Explaining the Hispanic adult mortality advantage. Demography 41(3):385–415. 2004.
17. Hoyert DL, Kochanek KD, Murphy SL. Deaths: Final data for 1997. National vital statistics reports; vol 47 no 19. Hyattsville, MD: National Center for Health Statistics. 1999. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr47/nvs47_19.pdf.
18. Centers for Disease Control and Prevention. Wide-ranging online data for epidemiologic research (WONDER). Underlying cause of death output based on the Detailed Mortality File. Available from: http://wonder.cdc.gov/.
19. Kochanek KD, Xu JQ, Murphy SL, et al. Deaths: Final data for 2009. National vital statistics reports; vol 60 no 3. Hyattsville, MD: National Center for Health Statistics. 2011. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr60/nvsr60_03.pdf.
20. Sunenshine RH, McDonald LC. *Clostridium difficile*-associated disease: New challenges from an established pathogen. Cleve Clin J Med 73(2):187–97. 2006.
21. Redelings MD, Sorvillo F, Mascola L. Increase in *Clostridium difficile*-related mortality rates, United States, 1999–2004. Emerg Infect Dis 13(9):1417–9. 2007. Available from: http://wwwnc.cdc.gov/eid/article/13/9/06-1116_article.htm.
22. Miniño AM, Murphy SL, Xu JQ, Kochanek KD. Deaths: Final data for 2008. National vital statistics reports; vol 59 no 10. Hyattsville, MD: National Center for Health Statistics. 2011. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59_10.pdf.
23. National Center for Health Statistics. Proceedings of the international collaborative effort on injury statistics; vol 1. Hyattsville, MD. 1995. Available from: http://www.cdc.gov/nchs/data/ice/ice95v1/ice_i.pdf.
24. Fingerhut L, Cox C, Warner M. International comparative analysis of injury mortality: Findings from the ICE on injury statistics. Advance data from vital and health statistics; no 303. Hyattsville, MD: National Center for Health Statistics. 1998. Available from: http://www.cdc.gov/nchs/data/ad/ad303.pdf.
25. Pamuk E, Makuc D, Heck K, et al. Socioeconomic status and health chartbook. Health, United States, 1998. Hyattsville, MD: National Center for Health Statistics. 1998. Available from: http://www.cdc.gov/nchs/data/hus/hus98cht.pdf.
26. Mathews TJ, MacDorman MF. Infant mortality statistics from the 2009 period linked birth/infant death data set. National vital statistics reports; vol 61 no 8. Hyattsville, MD: National Center for Health Statistics. 2013. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_08.pdf.
27. National Center for Health Statistics. 2003 revision of the U.S. Standard Certificate of Death. 2003. Available from: http://www.cdc.gov/nchs/data/dvs/DEATH11-03final-acc.pdf.
28. Tolson GC, Barnes JM, Gay GA, Kowaleski JL. The 1989 revision of the U.S. standard certificates and reports. National Center for Health Statistics. Vital Health Stat 4(28). 1991. Available from: http://www.cdc.gov/nchs/data/series/sr_04/sr04_028.pdf.
29. World Health Organization. International statistical classification of diseases and related health problems, 10th revision. Geneva, Switzerland. 1992.
30. National Center for Health Statistics, Data Warehouse. Comparability of cause-of-death between ICD revisions. 2008. Available from: http://www.cdc.gov/nchs/nvss/mortality/comparability_icd.htm.
31. National Center for Health Statistics, Data Warehouse. Updated comparability ratios (ICD–10 and ICD–9). 2004. Available from: ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Datasets/Comparability/icd9_icd10/Comparability_Ratio_tables.xls.
32. Anderson RN, Miniño AM, Hoyert DL, Rosenberg HM. Comparability of cause of death between ICD–9 and ICD–10: Preliminary estimates. National vital statistics reports; vol 49 no 2. Hyattsville, MD: National Center for Health Statistics. 2001. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_02.pdf.
33. Comparability of mortality statistics for the sixth and seventh revisions, United States, 1958. Vital statistics—Special reports 51(4). Washington, DC: National Center for Health Statistics. 1965. Available from: http://www.cdc.gov/nchs/data/spec_rpt51_04.pdf.
34. Klebba AJ, Dolman AB. Comparability of mortality statistics for the seventh and eighth revisions of the international classification of diseases, United States. National Center for Health Statistics. Vital Health Stat 2(66). 1975. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_066.pdf.
35. Klebba AJ, Scott J. Estimates of selected comparability ratios based on dual coding of 1976 death certificates by the eighth and ninth revisions of the international classification of diseases. Monthly vital statistics report; vol 28 no 11. Hyattsville, MD: National Center for Health Statistics. 1980. Available from: http://www.cdc.gov/nchs/data/mvsr/supp/mv28_11s.pdf.
36. National Center for Health Statistics (NCHS), Vital statistics. Instructions for classifying the underlying cause of death. NCHS instruction manual; part 2a. Hyattsville, MD. Published annually.
37. National Center for Health Statistics (NCHS), Vital statistics. Instructions for classifying multiple causes of death. NCHS instruction manual; part 2b. Hyattsville, MD. Published annually.
38. National Center for Health Statistics (NCHS), Vital statistics. ICD–10 ACME decision tables for classifying underlying causes of death. NCHS instruction manual; part 2c. Hyattsville, MD. Published annually.
39. National Center for Health Statistics (NCHS), Vital statistics. Data entry instructions for the mortality medical indexing, classification, and retrieval system (MICAR). NCHS instruction manual; part 2g. Hyattsville, MD. Published annually.
40. National Center for Health Statistics (NCHS), Vital statistics. Dictionary of valid terms for the mortality medical indexing, classification, and retrieval system (MICAR). NCHS instruction manual; part 2h. Hyattsville, MD. Published annually.
41. National Center for Health Statistics. Public-use data set documentation; control total Table 1: Mortality data set for ICD–10, 2010. Hyattsville, MD. 2012. Available from: http://www.cdc.gov/nchs/data/dvs/Record_Layout_2010.pdf.
42. Chamblee RF, Evans MC. TRANSAX: The NCHS system for producing multiple cause-of-death statistics, 1968–78. National Center for

Health Statistics. Vital Health Stat 1(20). 1986. Available from: http://www.cdc.gov/nchs/data/series/sr_01/sr01_020acc.pdf.

43. Israel RA, Rosenberg HM, Curtin LR. Analytical potential for multiple cause-of-death data. Am J Epidemiol 124(2):161–79. 1986. Available from: http://aje.oxfordjournals.org/content/124/2/161.full.pdf.
44. National Center for Health Statistics. ICD–10 cause-of-death lists for tabulating mortality statistics (updated March 2009 to include WHO updates to ICD–10 for data year 2009). NCHS instruction manual, part 9. Hyattsville, MD. 2009. Available from: http://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2009.pdf.
45. Hoyert DL, Arias E, Smith BL, et al. Deaths: Final data for 1999. National vital statistics reports; vol 49 no 8. Hyattsville, MD: National Center for Health Statistics. 2001. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49_08.pdf.
46. Centers for Disease Control and Prevention. Use of influenza A (H1N1) 2009 monovalent vaccine: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2009. MMWR Recomm Rep 58(RR10). 2009. Available from: http://www.cdc.gov/mmwr/preview/mmwrhtml/rr58e0821a1.htm.
47. National Center for Health Statistics (NCHS). Vital statistics: Instruction manual, data preparation. Computer edits for mortality data, including separate section for fetal deaths. NCHS instruction manual; part 11. Hyattsville, MD. Published annually.
48. National Center for Health Statistics (NCHS). ICD–10 cause-of-death querying, 1999. NCHS instruction manual; part 20. Hyattsville, MD. Published annually.
49. Miniño AM, Anderson RN, Fingerhut LA, et al. Deaths: Injuries, 2002. National vital statistics reports; vol 54 no 10. Hyattsville, MD: National Center for Health Statistics. 2006. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr54/nvsr54_10.pdf.
50. Office of Management and Budget. Race and ethnic standards for federal statistics and administrative reporting. Statistical Policy Directive 15. Washington, DC. 1977.
51. Schenker N, Parker JD. From single-race reporting to multiple-race reporting: Using imputation methods to bridge the transition. Stat Med 22(9):1571–87. 2003.
52. Rosenberg HM, Maurer JD, Sorlie PD, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_128.pdf.
53. Sorlie PD, Rogot E, Johnson NJ. Validity of demographic characteristics on the death certificate. Epidemiology 3(2):181–4. 1992.
54. Mulry M. Summary of accuracy and coverage evaluation for census 2000. Research Report Series Statistics #2006–3. Washington, DC: Statistical Research Division, U.S. Census Bureau. 2006. Available from: http://www.census.gov/srd/papers/pdf/rrs2006-03.pdf.
55. Poe GS, Powell-Griner E, McLaughlin JK, et al. Comparability of the death certificate and the 1986 National Mortality Followback Survey. National Center for Health Statistics. Vital Health Stat 2(118). 1993. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_118.pdf.
56. U.S. Census Bureau. DSSD 2010 Census coverage measurement memorandum series #2010-G-01. 2012. Available from: https://www.census.gov/coverage_measurement/pdfs/g01.pdf.
57. National Center for Health Statistics. Vital statistics of the United States, 1989, vol I, natality. Technical appendix. Hyattsville, MD. 1993.
58. National Center for Health Statistics. Vital statistics of the United States: Mortality, 1999. Technical appendix. Hyattsville, MD. 2004. Available from: http://www.cdc.gov/nchs/data/statab/techap99.pdf.
59. Hoyert DL. Effect on mortality rates of the 1989 change in tabulating race. National Center for Health Statistics. Vital Health Stat 20(25). 1994. Available from: http://www.cdc.gov/nchs/data/series/sr_20/sr20_025.pdf.
60. Martin JA, Hamilton BE, Ventura SJ, et al. Births: Final data for 2010. National vital statistics reports; vol 61 no 1. Hyattsville, MD: National Center for Health Statistics. 2012. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_01.pdf.
61. Sirken MG. Comparison of two methods of constructing abridged life tables by reference to a "standard" table. National Center for Health Statistics. Vital Health Stat 2(4). 1966. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_004.pdf.
62. Anderson RN. Method for constructing complete annual U.S. life tables. National Center for Health Statistics. Vital Health Stat 2(129). 1999. Available from: http://www.cdc.gov/nchs/data/series/sr_02/sr02_129.pdf.
63. National Center for Health Statistics. U.S. decennial life tables for 1989–91, vol 1 no 2, Methodology of the national and state life tables. Hyattsville, MD. 1998. Available from: http://www.cdc.gov/nchs/data/lifetables/life89_1_2.pdf.
64. Wei R, Curtin LR, Arias E, Anderson RN. U.S. decennial life tables for 1999–2001, Methodology of the United States life tables. National vital statistics reports; vol 57 no 4. Hyattsville, MD: National Center for Health Statistics. 2008. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57_04.pdf.
65. Arias E. United States life tables, 2008. National vital statistics reports; vol 61 no 3. Hyattsville, MD: National Center for Health Statistics. 2012. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_03.pdf.
66. Xu JQ, Kochanek KD, Murphy SL, Tejada-Vera B. Deaths: Final data for 2007. National vital statistics reports; vol 58 no 19. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_19.pdf.
67. Kochanek KD, Maurer JD, Rosenberg HM. Causes of death contributing to changes in life expectancy: United States, 1984–89. National Center for Health Statistics. Vital Health Stat 20(23). 1994. Available from: http://www.cdc.gov/nchs/data/series/sr_20/sr20_023.pdf.
68. Arriaga EE. Changing trends in mortality decline during the last decades. In: Ruzicka L, Wunsch G, Kane P, editors. Differential mortality: Methodological issues and biosocial factors. Oxford: Clarendon Press. 1989.
69. Arriaga EE. Measuring and explaining the change in life expectancies. Demography 21(1):83–96. 1984.
70. U.S. Census Bureau. American Community Survey, 2010 1-year. Population estimates for 2010 based on unpublished tabulations. 2012.
71. Kominski R, Adams A. Educational attainment in the United States, March 1993 and 1992. Current population reports, Population characteristics P20–476. Washington, DC: U.S. Bureau of the Census. 1994. Available from: http://www.census.gov/hhes/socdemo/education/data/cps/1993/P20-476.pdf.
72. Sorlie PD, Johnson NJ. Validity of education information on the death certificate. Epidemiology 7(4):437–9. 1996.
73. Hoyert DL. Maternal mortality and related concepts. National Center for Health Statistics. Vital Health Stat 3(33). Hyattsville, MD. 2007. Available from: http://www.cdc.gov/nchs/data/series/sr_03/sr03_033.pdf.
74. MacKay AP, Berg CJ, Liu X, Duran C, Hoyert DL. Changes in pregnancy mortality ascertainment: United States, 1999–2005. Obstet Gynecol 118(1):104–10. 2011.
75. MacKay AP, Berg CJ, Duran C, Chang J, Rosenberg H. An assessment of pregnancy-related mortality in the United States. Paediatr Perinat Epidemiol 19(3):206–14. 2005.
76. Horon IL, Cheng D. Effectiveness of pregnancy check boxes on death certificates in identifying pregnancy-associated mortality. Public Health Rep 126(2): 195–200. 2011.
77. U.S. Census Bureau. International data base. 2010. Available from: http://www.census.gov/population/international/.

78. National Center for Health Statistics. Bridged-race population estimates for April 1, 2000, by county, single-year of age, bridged-race, Hispanic origin, and sex (br040100.txt), prepared under a collaborative arrangement with the U.S. Census Bureau. 2003. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm.
79. National Center for Health Statistics. Bridged-race intercensal population estimates for July 1, 1990–July 1, 1999, by year, county, 5-year group, bridged-race, Hispanic origin, and sex (one ASCII file each per separate year). Prepared under a collaborative agreement with the U.S. Census Bureau. 2003. Available from: http://www.cdc.gov/nchs/nvss/bridged_race.htm.
80. U.S. Census Bureau. Age, sex, race, and Hispanic origin information from the 1990 census: A comparison of census results with results where age and race have been modified, 1990. CPH-L-74. Washington, DC: U.S. Department of Commerce. 1991.
81. Anderson R, Rosenberg H. Age standardization of death rates: Implementation of the year 2000 standard. National vital statistics reports; vol 47 no 3. Hyattsville, MD: National Center for Health Statistics. 1998. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr47/nvs47_03.pdf.
82. Brillinger DR. The natural variability of vital rates and associated statistics. Biometrics 42(4):693–734. 1986.
83. Fay MP, Feuer EJ. Confidence intervals for directly standardized rates: A method based on the gamma distribution. Stat Med 16(7):791–801. 1997.
84. Schenker N, Gentleman JF. On judging the significance of differences by examining the overlap between confidence intervals. The American Statistician 55(3):182–6. 2001.
85. Arnold SF. Mathematical statistics. Englewood Cliffs, NJ: Prentice Hall. 1990.

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[Crude rates are on an annual basis per 100,000 population in specified age group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and estimated as of July 1 for all other years; see Technical Notes. Beginning 1970, excludes deaths of nonresidents of the United States. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Year | All races[1] | | | White[2] | | | Black[2] | | | American Indian or Alaska Native[2,3] | | | Asian or Pacific Islander[2,4] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Number | | | | | | | | | | | | | | |
| 2010 | 2,468,435 | 1,232,432 | 1,236,003 | 2,114,749 | 1,051,514 | 1,063,235 | 286,959 | 145,802 | 141,157 | 15,565 | 8,516 | 7,049 | 51,162 | 26,600 | 24,562 |
| 2009 | 2,437,163 | 1,217,379 | 1,219,784 | 2,086,355 | 1,037,475 | 1,048,880 | 286,623 | 146,239 | 140,384 | 14,960 | 8,105 | 6,855 | 49,225 | 25,560 | 23,665 |
| 2008 | 2,471,984 | 1,226,197 | 1,245,787 | 2,120,233 | 1,046,183 | 1,074,050 | 289,072 | 147,143 | 141,929 | 14,776 | 8,163 | 6,613 | 47,903 | 24,708 | 23,195 |
| 2007 | 2,423,712 | 1,203,968 | 1,219,744 | 2,074,151 | 1,023,951 | 1,050,200 | 289,585 | 148,309 | 141,276 | 14,367 | 7,885 | 6,482 | 45,609 | 23,823 | 21,786 |
| 2006 | 2,426,264 | 1,201,942 | 1,224,322 | 2,077,549 | 1,022,328 | 1,055,221 | 289,971 | 148,602 | 141,369 | 14,037 | 7,630 | 6,407 | 44,707 | 23,382 | 21,325 |
| 2005 | 2,448,017 | 1,207,675 | 1,240,342 | 2,098,097 | 1,028,152 | 1,069,945 | 292,808 | 149,108 | 143,700 | 13,918 | 7,607 | 6,311 | 43,194 | 22,808 | 20,386 |
| 2004 | 2,397,615 | 1,181,668 | 1,215,947 | 2,056,643 | 1,007,266 | 1,049,377 | 287,315 | 145,970 | 141,345 | 13,124 | 7,134 | 5,990 | 40,533 | 21,298 | 19,235 |
| 2003 | 2,448,288 | 1,201,964 | 1,246,324 | 2,103,714 | 1,025,650 | 1,078,064 | 291,300 | 148,022 | 143,278 | 13,147 | 7,106 | 6,041 | 40,127 | 21,186 | 18,941 |
| 2002 | 2,443,387 | 1,199,264 | 1,244,123 | 2,102,589 | 1,025,196 | 1,077,393 | 290,051 | 146,835 | 143,216 | 12,415 | 6,750 | 5,665 | 38,332 | 20,483 | 17,849 |
| 2001 | 2,416,425 | 1,183,421 | 1,233,004 | 2,079,691 | 1,011,218 | 1,068,473 | 287,709 | 145,908 | 141,801 | 11,977 | 6,466 | 5,511 | 37,048 | 19,829 | 17,219 |
| 2000 | 2,403,351 | 1,177,578 | 1,225,773 | 2,071,287 | 1,007,191 | 1,064,096 | 285,826 | 145,184 | 140,642 | 11,363 | 6,185 | 5,178 | 34,875 | 19,018 | 15,857 |
| 1999 | 2,391,399 | 1,175,460 | 1,215,939 | 2,061,348 | 1,005,335 | 1,056,013 | 285,064 | 145,703 | 139,361 | 11,312 | 6,092 | 5,220 | 33,675 | 18,330 | 15,345 |
| 1998 | 2,337,256 | 1,157,260 | 1,179,996 | 2,015,984 | 990,190 | 1,025,794 | 278,440 | 143,417 | 135,023 | 10,845 | 5,994 | 4,851 | 31,987 | 17,659 | 14,328 |
| 1997 | 2,314,245 | 1,154,039 | 1,160,206 | 1,996,393 | 986,884 | 1,009,509 | 276,520 | 144,110 | 132,410 | 10,576 | 5,985 | 4,591 | 30,756 | 17,060 | 13,696 |
| 1996 | 2,314,690 | 1,163,569 | 1,151,121 | 1,992,966 | 991,984 | 1,000,982 | 282,089 | 149,472 | 132,617 | 10,127 | 5,563 | 4,564 | 29,508 | 16,550 | 12,958 |
| 1995 | 2,312,132 | 1,172,959 | 1,139,173 | 1,987,437 | 997,277 | 990,160 | 286,401 | 154,175 | 132,226 | 9,997 | 5,574 | 4,423 | 28,297 | 15,933 | 12,364 |
| 1994 | 2,278,994 | 1,162,747 | 1,116,247 | 1,959,875 | 988,823 | 971,052 | 282,379 | 153,019 | 129,360 | 9,637 | 5,497 | 4,140 | 27,103 | 15,408 | 11,695 |
| 1993 | 2,268,553 | 1,161,797 | 1,106,756 | 1,951,437 | 988,329 | 963,108 | 282,151 | 153,502 | 128,649 | 9,579 | 5,434 | 4,145 | 25,386 | 14,532 | 10,854 |
| 1992 | 2,175,613 | 1,122,336 | 1,053,277 | 1,873,781 | 956,957 | 916,824 | 269,219 | 146,630 | 122,589 | 8,953 | 5,181 | 3,772 | 23,660 | 13,568 | 10,092 |
| 1991 | 2,169,518 | 1,121,665 | 1,047,853 | 1,868,904 | 956,497 | 912,407 | 269,525 | 147,331 | 122,194 | 8,621 | 4,948 | 3,673 | 22,173 | 12,727 | 9,446 |
| 1990 | 2,148,463 | 1,113,417 | 1,035,046 | 1,853,254 | 950,812 | 902,442 | 265,498 | 145,359 | 120,139 | 8,316 | 4,877 | 3,439 | 21,127 | 12,211 | 8,916 |
| 1989 | 2,150,466 | 1,114,190 | 1,036,276 | 1,853,841 | 950,852 | 902,989 | 267,642 | 146,393 | 121,249 | 8,614 | 5,066 | 3,548 | 20,042 | 11,688 | 8,354 |
| 1988 | 2,167,999 | 1,125,540 | 1,042,459 | 1,876,906 | 965,419 | 911,487 | 264,019 | 144,228 | 119,791 | 7,917 | 4,617 | 3,300 | 18,963 | 11,155 | 7,808 |
| 1987 | 2,123,323 | 1,107,958 | 1,015,365 | 1,843,067 | 953,382 | 889,685 | 254,814 | 139,551 | 115,263 | 7,602 | 4,432 | 3,170 | 17,689 | 10,496 | 7,193 |
| 1986 | 2,105,361 | 1,104,005 | 1,001,356 | 1,831,083 | 952,554 | 878,529 | 250,326 | 137,214 | 113,112 | 7,301 | 4,365 | 2,936 | 16,514 | 9,795 | 6,719 |
| 1985 | 2,086,440 | 1,097,758 | 988,682 | 1,819,054 | 950,455 | 868,599 | 244,207 | 133,610 | 110,597 | 7,154 | 4,181 | 2,973 | 15,887 | 9,441 | 6,446 |
| 1984 | 2,039,369 | 1,076,514 | 962,855 | 1,781,897 | 934,529 | 847,368 | 235,884 | 129,147 | 106,737 | 6,949 | 4,117 | 2,832 | 14,483 | 8,627 | 5,856 |
| 1983 | 2,019,201 | 1,071,923 | 947,278 | 1,765,582 | 931,779 | 833,803 | 233,124 | 127,911 | 105,213 | 6,839 | 4,064 | 2,775 | 13,554 | 8,126 | 5,428 |
| 1982 | 1,974,797 | 1,056,440 | 918,357 | 1,729,085 | 919,239 | 809,846 | 226,513 | 125,610 | 100,903 | 6,679 | 3,974 | 2,705 | 12,430 | 7,564 | 4,866 |
| 1981 | 1,977,981 | 1,063,772 | 914,209 | 1,731,233 | 925,490 | 805,743 | 228,560 | 127,296 | 101,264 | 6,608 | 4,016 | 2,592 | 11,475 | 6,908 | 4,567 |
| 1980 | 1,989,841 | 1,075,078 | 914,763 | 1,738,607 | 933,878 | 804,729 | 233,135 | 130,138 | 102,997 | 6,923 | 4,193 | 2,730 | 11,071 | 6,809 | 4,262 |
| 1970 | 1,921,031 | 1,078,478 | 842,553 | 1,682,096 | 942,437 | 739,659 | 225,647 | 127,540 | 98,107 | 5,675 | 3,391 | 2,284 | - - - | - - - | - - - |
| 1960 | 1,711,982 | 975,648 | 736,334 | 1,505,335 | 860,857 | 644,478 | 196,010 | 107,701 | 88,309 | 4,528 | 2,658 | 1,870 | - - - | - - - | - - - |
| 1950 | 1,452,454 | 827,749 | 624,705 | 1,276,085 | 731,366 | 544,719 | 169,606 | 92,004 | 77,602 | 4,440 | 2,497 | 1,943 | - - - | - - - | - - - |
| 1940 | 1,417,269 | 791,003 | 626,266 | 1,231,223 | 690,901 | 540,322 | 178,743 | 95,517 | 83,226 | 4,791 | 2,527 | 2,264 | - - - | - - - | - - - |

See footnotes at end of table.

**Table 1. Number of deaths, death rates, and age-adjusted death rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1980–2010—Con.**

[Crude rates are on an annual basis per 100,000 population in specified age group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and estimated as of July 1 for all other years; see Technical Notes. Beginning 1970, excludes deaths of nonresidents of the United States. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Year | All races[1] | | | White[2] | | | Black[2] | | | American Indian or Alaska Native[2,3] | | | Asian or Pacific Islander[2,4] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Death rate | | | | | | | | | | | | | | |
| 2010 | 799.5 | 812.0 | 787.4 | 861.7 | 866.1 | 857.3 | 682.2 | 725.4 | 642.7 | 365.1 | 397.5 | 332.4 | 301.1 | 327.0 | 277.3 |
| 2009[5] | 794.5 | 807.2 | 782.1 | 853.7 | 858.2 | 849.3 | 688.5 | 735.3 | 645.6 | 361.2 | 389.9 | 332.4 | 296.4 | 321.2 | 273.5 |
| 2008[5] | 812.9 | 820.3 | 805.8 | 872.6 | 870.6 | 874.6 | 704.2 | 750.6 | 661.8 | 370.9 | 408.7 | 332.9 | 297.6 | 320.0 | 277.0 |
| 2007[5] | 804.6 | 813.1 | 796.4 | 859.3 | 857.8 | 860.6 | 715.9 | 768.1 | 668.2 | 375.1 | 411.1 | 339.0 | 293.1 | 318.7 | 269.5 |
| 2006[5] | 813.1 | 819.6 | 806.9 | 866.3 | 862.3 | 870.3 | 727.5 | 781.4 | 678.3 | 380.6 | 413.7 | 347.6 | 297.5 | 323.4 | 273.4 |
| 2005[5] | 828.4 | 831.7 | 825.1 | 880.9 | 873.5 | 888.1 | 745.4 | 796.1 | 699.2 | 391.6 | 428.4 | 354.8 | 298.0 | 326.6 | 271.4 |
| 2004[5] | 818.8 | 821.6 | 816.2 | 869.0 | 861.6 | 876.3 | 741.7 | 790.7 | 697.1 | 382.7 | 416.5 | 348.9 | 290.2 | 315.9 | 266.2 |
| 2003[5] | 843.9 | 843.9 | 843.9 | 894.7 | 883.6 | 905.6 | 762.4 | 813.6 | 715.8 | 396.9 | 429.9 | 364.1 | 298.1 | 325.6 | 272.3 |
| 2002[5] | 849.5 | 849.2 | 849.8 | 899.6 | 888.5 | 910.4 | 768.4 | 816.8 | 724.4 | 387.7 | 422.4 | 353.1 | 295.9 | 326.5 | 267.2 |
| 2001[5] | 848.0 | 846.0 | 849.9 | 895.7 | 882.5 | 908.5 | 772.4 | 822.7 | 726.6 | 386.7 | 418.5 | 355.1 | 298.1 | 328.9 | 269.1 |
| 2000 | 854.0 | 853.0 | 855.0 | 900.2 | 887.8 | 912.3 | 781.1 | 834.1 | 733.0 | 380.8 | 415.6 | 346.1 | 296.6 | 332.9 | 262.3 |
| 1999 | 857.0 | 859.2 | 854.9 | 901.4 | 892.1 | 910.4 | 788.1 | 847.4 | 734.3 | 399.3 | 431.8 | 367.1 | 296.8 | 333.2 | 262.5 |
| 1998 | 847.3 | 856.4 | 838.5 | 889.5 | 887.3 | 891.6 | 782.3 | 848.2 | 722.6 | 397.8 | 441.9 | 354.2 | 293.8 | 335.4 | 254.9 |
| 1997 | 848.8 | 864.6 | 833.6 | 889.1 | 893.3 | 885.0 | 789.9 | 867.1 | 720.1 | 402.7 | 458.2 | 347.7 | 294.1 | 336.8 | 253.9 |
| 1996 | 859.2 | 882.8 | 836.7 | 896.0 | 907.1 | 885.3 | 819.7 | 915.3 | 733.3 | 399.5 | 441.5 | 358.0 | 294.4 | 340.2 | 251.1 |
| 1995 | 868.3 | 900.8 | 837.2 | 901.8 | 921.0 | 883.2 | 846.2 | 960.2 | 743.2 | 409.4 | 459.4 | 360.1 | 294.6 | 341.4 | 250.4 |
| 1994 | 866.1 | 904.2 | 829.7 | 897.8 | 922.6 | 873.8 | 849.0 | 970.2 | 739.7 | 408.2 | 468.8 | 348.3 | 294.6 | 344.0 | 247.7 |
| 1993 | 872.8 | 915.0 | 832.5 | 902.7 | 931.8 | 874.6 | 864.6 | 992.2 | 749.6 | 419.8 | 479.6 | 360.7 | 288.0 | 338.1 | 240.3 |
| 1992 | 848.1 | 896.1 | 802.4 | 875.8 | 912.2 | 840.8 | 841.8 | 967.6 | 728.6 | 406.6 | 474.1 | 340.0 | 282.1 | 331.1 | 235.3 |
| 1991 | 857.6 | 908.8 | 808.7 | 883.2 | 922.7 | 845.2 | 861.4 | 994.8 | 741.4 | 405.3 | 468.9 | 342.7 | 278.7 | 326.9 | 232.4 |
| 1990 | 863.8 | 918.4 | 812.0 | 888.0 | 930.9 | 846.9 | 871.0 | 1,008.0 | 747.9 | 402.8 | 476.4 | 330.4 | 283.3 | 334.3 | 234.3 |
| 1989 | 871.3 | 926.3 | 818.9 | 893.2 | 936.5 | 851.8 | 887.9 | 1,026.7 | 763.2 | 430.5 | 510.7 | 351.3 | 280.9 | 334.5 | 229.4 |
| 1988 | 886.7 | 945.1 | 831.2 | 910.5 | 957.9 | 865.3 | 888.3 | 1,026.1 | 764.6 | 411.7 | 485.0 | 339.9 | 282.0 | 339.0 | 227.4 |
| 1987 | 876.4 | 939.3 | 816.7 | 900.1 | 952.7 | 849.8 | 868.9 | 1,006.2 | 745.7 | 410.7 | 483.8 | 339.0 | 278.9 | 338.3 | 222.0 |
| 1986 | 876.7 | 944.7 | 812.3 | 900.1 | 958.6 | 844.3 | 864.9 | 1,002.6 | 741.5 | 409.5 | 494.9 | 325.9 | 276.2 | 335.1 | 219.9 |
| 1985 | 876.9 | 948.6 | 809.1 | 900.4 | 963.6 | 840.1 | 854.8 | 989.3 | 734.2 | 416.4 | 492.5 | 342.5 | 283.4 | 344.6 | 224.9 |
| 1984 | 864.8 | 938.8 | 794.7 | 887.8 | 954.1 | 824.6 | 836.1 | 968.5 | 717.4 | 419.6 | 502.7 | 338.4 | 275.9 | 336.5 | 218.1 |
| 1983 | 863.7 | 943.2 | 788.4 | 885.4 | 957.7 | 816.4 | 836.6 | 971.2 | 715.9 | 428.5 | 515.1 | 343.9 | 276.1 | 339.1 | 216.1 |
| 1982 | 852.4 | 938.4 | 771.2 | 873.1 | 951.8 | 798.2 | 823.4 | 966.2 | 695.5 | 434.5 | 522.9 | 348.1 | 271.3 | 338.3 | 207.4 |
| 1981 | 862.0 | 954.0 | 775.0 | 880.4 | 965.2 | 799.8 | 842.4 | 992.6 | 707.7 | 445.6 | 547.9 | 345.6 | 272.3 | 336.2 | 211.5 |
| 1980 | 878.3 | 976.9 | 785.3 | 892.5 | 983.3 | 806.1 | 875.4 | 1,034.1 | 733.3 | 487.4 | 597.1 | 380.1 | 296.9 | 375.3 | 222.5 |
| 1970 | 945.3 | 1,090.3 | 807.8 | 946.3 | 1,086.7 | 812.6 | 999.3 | 1,186.6 | 829.2 | - - - | - - - | - - - | - - - | - - - | - - - |
| 1960 | 954.7 | 1,104.5 | 809.2 | 947.8 | 1,098.5 | 800.9 | 1,038.6 | 1,181.7 | 905.0 | - - - | - - - | - - - | - - - | - - - | - - - |
| 1950 | 963.8 | 1,106.1 | 823.5 | 945.7 | 1,089.5 | 803.3 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1940 | 1,076.4 | 1,197.4 | 954.6 | 1,041.5 | 1,162.2 | 919.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |

See footnotes at end of table.

**Table 1. Number of deaths, death rates, and age-adjusted death rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1980–2010—Con.**

[Crude rates are on an annual basis per 100,000 population in specified age group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and estimated as of July 1 for all other years; see Technical Notes. Beginning 1970, excludes deaths of nonresidents of the United States. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Year | All races[1] | | | White[2] | | | Black[2] | | | American Indian or Alaska Native[2,3] | | | Asian or Pacific Islander[2,4] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Age-adjusted death rate[6] | | | | | | | | | | | | | | |
| 2010 | 747.0 | 887.1 | 634.9 | 741.8 | 878.5 | 630.8 | 898.2 | 1,104.0 | 752.5 | 628.3 | 730.2 | 541.7 | 424.3 | 512.1 | 359.0 |
| 2009[5] | 749.6 | 890.9 | 636.8 | 742.8 | 880.5 | 631.3 | 912.8 | 1,123.1 | 763.3 | 616.0 | 709.0 | 536.4 | 424.6 | 509.2 | 361.1 |
| 2008[5] | 774.9 | 918.8 | 659.9 | 767.2 | 907.1 | 653.7 | 947.7 | 1,168.0 | 792.0 | 644.0 | 757.2 | 548.7 | 435.1 | 518.5 | 372.4 |
| 2007[5] | 775.3 | 922.9 | 658.1 | 764.3 | 907.1 | 649.4 | 972.0 | 1,204.8 | 808.1 | 661.3 | 780.3 | 565.2 | 436.2 | 525.9 | 369.2 |
| 2006[5] | 791.8 | 943.5 | 672.2 | 779.3 | 925.8 | 662.3 | 997.9 | 1,239.5 | 828.4 | 676.6 | 780.8 | 589.0 | 450.7 | 544.9 | 381.2 |
| 2005[5] | 815.0 | 971.9 | 692.3 | 801.1 | 952.9 | 680.9 | 1,035.1 | 1,281.3 | 862.7 | 701.1 | 824.5 | 601.8 | 459.6 | 560.6 | 385.2 |
| 2004[5] | 813.7 | 973.3 | 690.5 | 798.5 | 953.2 | 677.7 | 1,043.8 | 1,296.8 | 869.8 | 691.8 | 811.4 | 594.9 | 460.7 | 557.4 | 389.1 |
| 2003[5] | 843.5 | 1,010.3 | 715.2 | 827.1 | 988.8 | 701.6 | 1,080.5 | 1,343.5 | 898.3 | 726.3 | 850.6 | 628.1 | 480.5 | 583.6 | 404.2 |
| 2002[5] | 855.9 | 1,030.6 | 723.6 | 839.0 | 1,009.0 | 709.3 | 1,097.3 | 1,364.8 | 913.5 | 713.0 | 841.3 | 611.1 | 486.5 | 595.3 | 405.5 |
| 2001[5] | 858.8 | 1,035.4 | 725.6 | 840.7 | 1,012.1 | 710.4 | 1,106.2 | 1,380.5 | 917.9 | 714.1 | 834.4 | 617.1 | 495.4 | 603.7 | 413.9 |
| 2000 | 869.0 | 1,053.8 | 731.4 | 849.8 | 1,029.4 | 715.3 | 1,121.4 | 1,403.5 | 927.6 | 709.3 | 841.5 | 604.5 | 506.4 | 624.2 | 416.8 |
| 1999 | 875.6 | 1,067.0 | 734.0 | 854.6 | 1,040.0 | 716.6 | 1,135.7 | 1,432.6 | 933.6 | 780.9 | 925.9 | 668.2 | 519.7 | 641.2 | 427.5 |
| 1998 | 870.6 | 1,069.4 | 724.7 | 849.3 | 1,042.0 | 707.3 | 1,127.8 | 1,430.5 | 921.6 | 770.4 | 943.9 | 640.5 | 522.4 | 646.9 | 426.7 |
| 1997 | 878.1 | 1,088.1 | 725.6 | 855.7 | 1,059.1 | 707.8 | 1,139.8 | 1,458.8 | 922.1 | 774.0 | 974.8 | 625.3 | 531.8 | 660.2 | 432.6 |
| 1996 | 894.1 | 1,115.7 | 733.0 | 869.0 | 1,082.9 | 713.6 | 1,178.4 | 1,524.2 | 940.3 | 763.6 | 924.8 | 641.7 | 543.2 | 676.1 | 439.6 |
| 1995 | 909.8 | 1,143.9 | 739.4 | 882.3 | 1,107.5 | 718.7 | 1,213.9 | 1,585.7 | 955.9 | 771.2 | 932.0 | 643.9 | 554.8 | 693.4 | 446.7 |
| 1994 | 913.5 | 1,155.5 | 738.6 | 885.6 | 1,118.7 | 717.5 | 1,216.9 | 1,592.8 | 954.6 | 764.8 | 953.3 | 618.8 | 562.7 | 702.5 | 452.1 |
| 1993 | 926.1 | 1,177.3 | 745.9 | 897.0 | 1,138.9 | 724.1 | 1,241.2 | 1,632.2 | 969.5 | 796.4 | 1,006.3 | 641.6 | 565.8 | 709.9 | 450.4 |
| 1992 | 905.6 | 1,158.3 | 725.5 | 877.7 | 1,122.4 | 704.1 | 1,206.7 | 1,587.8 | 942.5 | 759.0 | 970.4 | 599.4 | 558.5 | 697.3 | 445.8 |
| 1991 | 922.3 | 1,180.5 | 738.2 | 893.2 | 1,143.1 | 716.1 | 1,235.4 | 1,626.1 | 963.3 | 763.9 | 970.6 | 608.3 | 566.2 | 703.4 | 453.2 |
| 1990 | 938.7 | 1,202.8 | 750.9 | 909.8 | 1,165.9 | 728.8 | 1,250.3 | 1,644.5 | 975.1 | 716.3 | 916.2 | 561.8 | 582.0 | 716.4 | 469.3 |
| 1989 | 950.5 | 1,215.0 | 761.8 | 920.2 | 1,176.6 | 738.8 | 1,275.5 | 1,670.1 | 998.1 | 761.6 | 999.8 | 586.3 | 581.3 | 729.6 | 458.4 |
| 1988 | 975.7 | 1,250.7 | 781.0 | 947.6 | 1,215.9 | 759.1 | 1,284.3 | 1,677.6 | 1,006.8 | 718.6 | 917.4 | 563.6 | 584.2 | 732.0 | 451.0 |
| 1987 | 970.0 | 1,246.1 | 774.2 | 943.4 | 1,213.4 | 753.3 | 1,263.1 | 1,650.3 | 989.7 | 719.8 | 899.3 | 583.7 | 577.3 | 732.4 | 448.1 |
| 1986 | 978.6 | 1,261.7 | 778.7 | 952.8 | 1,230.5 | 758.1 | 1,266.7 | 1,650.1 | 994.4 | 720.8 | 926.7 | 549.3 | 576.4 | 730.5 | 445.4 |
| 1985 | 988.1 | 1,278.1 | 784.5 | 963.6 | 1,249.8 | 764.3 | 1,261.2 | 1,634.5 | 994.4 | 731.7 | 926.1 | 577.2 | 586.5 | 755.4 | 456.7 |
| 1984 | 982.5 | 1,271.4 | 779.8 | 959.7 | 1,245.9 | 760.7 | 1,236.7 | 1,600.8 | 976.9 | 761.7 | 946.0 | 567.9 | 574.4 | 724.7 | 443.1 |
| 1983 | 990.0 | 1,284.5 | 783.3 | 967.3 | 1,259.4 | 763.9 | 1,240.5 | 1,600.7 | 980.7 | 757.3 | 945.0 | 605.5 | 565.1 | 718.8 | 428.8 |
| 1982 | 985.0 | 1,279.9 | 776.6 | 963.6 | 1,255.9 | 758.7 | 1,221.3 | 1,580.4 | 960.1 | 757.0 | 940.1 | 604.4 | 550.4 | 738.2 | 410.3 |
| 1981 | 1,007.1 | 1,308.2 | 792.7 | 984.0 | 1,282.2 | 773.6 | 1,258.4 | 1,626.6 | 986.6 | 784.6 | 1,030.2 | 588.0 | 544.7 | 710.3 | 405.3 |
| 1980 | 1,039.1 | 1,348.1 | 817.9 | 1,012.7 | 1,317.6 | 796.1 | 1,314.8 | 1,697.8 | 1,033.3 | 867.0 | 1,111.5 | 662.4 | 589.9 | 786.5 | 425.9 |
| 1970 | 1,222.6 | 1,542.1 | 971.4 | 1,193.3 | 1,513.7 | 944.0 | 1,518.1 | 1,873.9 | 1,228.7 | - - - | - - - | - - - | - - - | - - - | - - - |
| 1960 | 1,339.2 | 1,609.0 | 1,105.3 | 1,311.3 | 1,586.0 | 1,074.4 | 1,577.5 | 1,811.1 | 1,369.7 | - - - | - - - | - - - | - - - | - - - | - - - |
| 1950 | 1,446.0 | 1,674.2 | 1,236.0 | 1,410.8 | 1,642.5 | 1,198.0 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1940 | 1,785.0 | 1,976.0 | 1,599.4 | 1,735.3 | 1,925.2 | 1,550.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |

- - - Data not available.

[1]For 1940–1991, data include deaths among races not shown separately; beginning in 1992, records coded as "other races" and records for which race was unknown, not stated, or not classifiable were assigned to the race of previous record; see Technical Notes.

[2]Multiple-race data were reported by 37 states and the District of Columbia in 2010, by 34 states and the District of Columbia in 2008 and 2009, by 27 states and the District of Columbia in 2007, by 25 states and the District of Columbia in 2006, by 21 states and the District of Columbia in 2005, by 15 states in 2004, and by 7 states in 2003; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes. [3]Includes Aleuts and Eskimos. [4]Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

[5]Rates are revised using updated intercensal population estimates and may differ from rates previously published; see Technical Notes. [6]For method of computation, see Technical Notes.

## Table 2. Number of deaths, death rates, and age-adjusted death rates, by Hispanic origin, race for non-Hispanic population, and sex: United States, 1997–2010

[Crude rates are on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Year | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | | | | | | | | Number | | | | | | | |
| 2010 | 2,468,435 | 1,232,432 | 1,236,003 | 144,490 | 79,622 | 64,868 | 2,318,218 | 1,149,438 | 1,168,780 | 1,969,916 | 971,604 | 998,312 | 283,438 | 143,824 | 139,614 |
| 2009 | 2,437,163 | 1,217,379 | 1,219,784 | 141,576 | 78,157 | 63,419 | 2,289,999 | 1,135,852 | 1,154,147 | 1,944,606 | 959,014 | 985,592 | 282,982 | 144,197 | 138,785 |
| 2008 | 2,471,984 | 1,226,197 | 1,245,787 | 139,241 | 76,861 | 62,380 | 2,327,636 | 1,146,394 | 1,181,242 | 1,981,034 | 969,288 | 1,011,746 | 285,522 | 145,168 | 140,354 |
| 2007 | 2,423,712 | 1,203,968 | 1,219,744 | 135,519 | 75,708 | 59,811 | 2,284,446 | 1,125,974 | 1,158,472 | 1,939,606 | 948,662 | 990,944 | 286,366 | 146,474 | 139,892 |
| 2006 | 2,426,264 | 1,201,942 | 1,224,322 | 133,004 | 74,250 | 58,754 | 2,288,424 | 1,124,813 | 1,163,611 | 1,944,617 | 947,966 | 996,651 | 286,581 | 146,729 | 139,852 |
| 2005 | 2,448,017 | 1,207,675 | 1,240,342 | 131,161 | 73,788 | 57,373 | 2,312,028 | 1,131,013 | 1,181,015 | 1,967,142 | 954,402 | 1,012,740 | 289,163 | 147,010 | 142,153 |
| 2004 | 2,397,615 | 1,181,668 | 1,215,947 | 122,416 | 68,544 | 53,872 | 2,269,583 | 1,109,848 | 1,159,735 | 1,933,382 | 938,143 | 995,239 | 283,859 | 144,022 | 139,837 |
| 2003 | 2,448,288 | 1,201,964 | 1,246,324 | 122,026 | 68,119 | 53,907 | 2,319,476 | 1,129,927 | 1,189,549 | 1,979,465 | 956,194 | 1,023,271 | 287,968 | 146,136 | 141,832 |
| 2002 | 2,443,387 | 1,199,264 | 1,244,123 | 117,135 | 65,703 | 51,432 | 2,318,269 | 1,129,090 | 1,189,179 | 1,981,973 | 957,645 | 1,024,328 | 286,573 | 144,802 | 141,771 |
| 2001 | 2,416,425 | 1,183,421 | 1,233,004 | 113,413 | 63,317 | 50,096 | 2,295,244 | 1,115,683 | 1,179,561 | 1,962,810 | 945,967 | 1,016,843 | 284,343 | 143,971 | 140,372 |
| 2000 | 2,403,351 | 1,177,578 | 1,225,773 | 107,254 | 60,172 | 47,082 | 2,287,846 | 1,112,704 | 1,175,142 | 1,959,919 | 944,781 | 1,015,138 | 282,676 | 143,297 | 139,379 |
| 1999 | 2,391,399 | 1,175,460 | 1,215,939 | 103,740 | 57,991 | 45,749 | 2,279,325 | 1,112,718 | 1,166,607 | 1,953,197 | 944,913 | 1,008,284 | 281,979 | 143,883 | 138,096 |
| 1998 | 2,337,256 | 1,157,260 | 1,179,996 | 98,406 | 55,821 | 42,585 | 2,230,127 | 1,096,677 | 1,133,450 | 1,912,802 | 931,844 | 980,958 | 275,264 | 141,627 | 133,637 |
| 1997 | 2,314,245 | 1,154,039 | 1,160,206 | 95,460 | 54,348 | 41,112 | 2,209,450 | 1,094,541 | 1,114,909 | 1,895,461 | 929,703 | 965,758 | 273,381 | 142,241 | 131,140 |
| | | | | | | | | Death rate | | | | | | | |
| 2010 | 799.5 | 812.0 | 787.4 | 286.2 | 310.8 | 260.9 | 897.6 | 911.1 | 884.7 | 984.3 | 987.5 | 981.2 | 718.7 | 764.5 | 676.9 |
| 2009[4] | 794.5 | 807.2 | 782.1 | 287.0 | 311.8 | 261.4 | 889.5 | 903.3 | 876.3 | 972.3 | 975.7 | 969.1 | 723.7 | 773.2 | 678.5 |
| 2008[4] | 812.9 | 820.3 | 805.8 | 291.3 | 316.0 | 265.8 | 908.2 | 915.9 | 900.8 | 991.6 | 987.5 | 995.6 | 738.7 | 787.8 | 694.0 |
| 2007[4] | 804.6 | 813.1 | 796.4 | 293.4 | 321.6 | 264.0 | 895.7 | 904.2 | 887.6 | 972.3 | 968.3 | 976.1 | 749.9 | 804.9 | 699.9 |
| 2006[4] | 813.1 | 819.6 | 806.9 | 298.2 | 326.1 | 269.0 | 901.8 | 908.0 | 895.8 | 976.2 | 969.4 | 982.8 | 759.8 | 816.5 | 708.1 |
| 2005[4] | 828.4 | 831.7 | 825.1 | 304.9 | 335.6 | 272.7 | 915.7 | 918.0 | 913.5 | 989.1 | 978.1 | 999.7 | 775.8 | 828.4 | 728.1 |
| 2004[4] | 818.8 | 821.6 | 816.2 | 295.0 | 322.8 | 265.8 | 903.1 | 905.3 | 901.0 | 973.4 | 963.2 | 983.2 | 770.3 | 821.2 | 724.1 |
| 2003[4] | 843.9 | 843.9 | 843.9 | 304.7 | 332.0 | 276.0 | 927.6 | 926.8 | 928.3 | 998.3 | 984.1 | 1,011.8 | 790.6 | 843.7 | 742.5 |
| 2002[4] | 849.5 | 849.2 | 849.8 | 303.3 | 331.5 | 273.6 | 931.0 | 930.0 | 932.0 | 1,000.5 | 986.7 | 1,013.8 | 794.9 | 844.5 | 750.0 |
| 2001[4] | 848.0 | 846.0 | 849.9 | 305.3 | 331.8 | 277.4 | 926.2 | 923.5 | 928.7 | 992.1 | 976.3 | 1,007.2 | 797.9 | 849.6 | 751.0 |
| 2000 | 854.0 | 853.0 | 855.0 | 303.8 | 331.3 | 274.6 | 929.6 | 928.1 | 931.0 | 993.2 | 978.5 | 1,007.3 | 805.5 | 859.5 | 756.7 |
| 1999 | 857.0 | 859.2 | 854.9 | 305.7 | 332.6 | 277.2 | 929.9 | 932.2 | 927.8 | 990.7 | 979.6 | 1,001.3 | 812.1 | 872.8 | 757.3 |
| 1998 | 847.3 | 856.4 | 838.5 | 303.9 | 336.0 | 270.0 | 916.0 | 925.3 | 907.1 | 972.9 | 969.2 | 976.5 | 805.6 | 873.7 | 744.1 |
| 1997 | 848.8 | 864.6 | 833.6 | 309.0 | 343.2 | 272.9 | 913.9 | 930.4 | 898.3 | 967.4 | 970.6 | 964.3 | 813.5 | 892.9 | 741.9 |

See footnotes at end of table.

**Table 2. Number of deaths, death rates, and age-adjusted death rates, by Hispanic origin, race for non-Hispanic population, and sex: United States, 1997–2010—Con.**

[Crude rates are on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Year | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Age-adjusted death rate[5] | | | | | | | | | | | | | | |
| 2010 | 747.0 | 887.1 | 634.9 | 558.6 | 677.7 | 463.4 | 762.6 | 904.6 | 649.2 | 755.0 | 892.5 | 643.3 | 920.4 | 1,131.7 | 770.8 |
| 2009[4] | 749.6 | 890.9 | 636.8 | 559.7 | 675.5 | 466.1 | 764.7 | 908.0 | 650.5 | 755.1 | 893.7 | 643.1 | 934.4 | 1,150.5 | 781.0 |
| 2008[4] | 774.9 | 918.8 | 659.9 | 579.8 | 695.3 | 484.7 | 790.0 | 935.9 | 673.7 | 779.4 | 920.2 | 665.4 | 969.2 | 1,195.4 | 809.6 |
| 2007[4] | 775.3 | 922.9 | 658.1 | 586.1 | 711.4 | 484.4 | 789.5 | 938.7 | 671.4 | 775.3 | 918.4 | 660.6 | 994.4 | 1,233.2 | 826.4 |
| 2006[4] | 791.8 | 943.5 | 672.2 | 604.0 | 732.3 | 500.2 | 804.9 | 958.0 | 684.6 | 789.1 | 935.7 | 672.4 | 1,019.3 | 1,267.0 | 845.6 |
| 2005[4] | 815.0 | 971.9 | 692.3 | 627.6 | 771.2 | 513.8 | 827.3 | 985.0 | 704.4 | 810.1 | 961.5 | 690.7 | 1,055.1 | 1,306.1 | 879.4 |
| 2004[4] | 813.7 | 973.3 | 690.5 | 616.8 | 750.1 | 509.5 | 825.9 | 986.7 | 702.2 | 807.6 | 962.5 | 687.2 | 1,062.8 | 1,320.9 | 885.4 |
| 2003[4] | 843.5 | 1,010.3 | 715.2 | 645.3 | 784.0 | 534.2 | 854.6 | 1,022.6 | 725.8 | 834.9 | 996.7 | 709.8 | 1,099.0 | 1,366.8 | 913.6 |
| 2002[4] | 855.9 | 1,030.6 | 723.6 | 652.2 | 799.9 | 535.9 | 866.4 | 1,042.1 | 733.8 | 846.4 | 1,016.5 | 717.1 | 1,114.1 | 1,385.1 | 927.9 |
| 2001[4] | 858.8 | 1,035.4 | 725.6 | 662.6 | 808.6 | 547.0 | 868.4 | 1,046.1 | 734.9 | 847.1 | 1,018.8 | 717.3 | 1,122.3 | 1,400.4 | 931.5 |
| 2000 | 869.0 | 1,053.8 | 731.4 | 665.7 | 818.1 | 546.0 | 877.9 | 1,063.8 | 740.0 | 855.5 | 1,035.4 | 721.5 | 1,137.0 | 1,422.0 | 941.2 |
| 1999 | 875.6 | 1,067.0 | 734.0 | 676.4 | 830.5 | 555.9 | 883.9 | 1,076.4 | 741.9 | 859.8 | 1,045.5 | 722.3 | 1,150.1 | 1,449.4 | 946.0 |
| 1998 | 870.6 | 1,069.4 | 724.7 | 665.4 | 833.6 | 536.9 | 878.4 | 1,078.2 | 732.4 | 854.1 | 1,046.7 | 712.8 | 1,141.8 | 1,448.2 | 932.9 |
| 1997 | 878.1 | 1,088.1 | 725.6 | 669.3 | 840.5 | 538.8 | 885.3 | 1,096.4 | 732.6 | 859.7 | 1,063.2 | 712.5 | 1,154.3 | 1,476.7 | 934.2 |

[1]Figures for origin not stated are included in "All origins" but are not distributed among specified origins.

[2]Includes races other than white and black.

[3]Multiple-race data were reported by 37 states and the District of Columbia in 2010, by 34 states and the District of Columbia in 2008 and 2009, by 27 states and the District of Columbia in 2007, by 25 states and the District of Columbia in 2006, by 21 states and the District of Columbia in 2005, by 15 states in 2004, and by 7 states in 2003; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[4]Rates are revised using updated intercensal population estimates and may differ from rates previously published; see Technical Notes.

[5]For method of computation, see Technical Notes.

## Table 3. Number of deaths and death rates, by age, race, and sex: United States, 2010

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes]

| Age (years) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Number | | | | | | | | | | | | | | |
| All ages | 2,468,435 | 1,232,432 | 1,236,003 | 2,114,749 | 1,051,514 | 1,063,235 | 286,959 | 145,802 | 141,157 | 15,565 | 8,516 | 7,049 | 51,162 | 26,600 | 24,562 |
| Under 1 year | 24,586 | 13,702 | 10,884 | 15,954 | 8,871 | 7,083 | 7,401 | 4,116 | 3,285 | 354 | 213 | 141 | 877 | 502 | 375 |
| 1–4 | 4,316 | 2,460 | 1,856 | 3,015 | 1,718 | 1,297 | 1,041 | 595 | 446 | 93 | 55 | 38 | 167 | 92 | 75 |
| 5–9 | 2,330 | 1,325 | 1,005 | 1,691 | 957 | 734 | 494 | 283 | 211 | 46 | 29 | 17 | 99 | 56 | 43 |
| 10–14 | 2,949 | 1,729 | 1,220 | 2,150 | 1,265 | 885 | 651 | 384 | 267 | 62 | 40 | 22 | 86 | 40 | 46 |
| 15–19 | 10,887 | 7,866 | 3,021 | 7,847 | 5,549 | 2,298 | 2,531 | 1,965 | 566 | 242 | 176 | 66 | 267 | 176 | 91 |
| 20–24 | 18,664 | 13,924 | 4,740 | 13,662 | 10,112 | 3,550 | 4,144 | 3,164 | 980 | 373 | 280 | 93 | 485 | 368 | 117 |
| 25–29 | 20,263 | 14,429 | 5,834 | 15,097 | 10,817 | 4,280 | 4,246 | 2,997 | 1,249 | 376 | 246 | 130 | 544 | 369 | 175 |
| 30–34 | 21,996 | 14,763 | 7,233 | 16,328 | 11,066 | 5,262 | 4,674 | 3,074 | 1,600 | 419 | 279 | 140 | 575 | 344 | 231 |
| 35–39 | 28,012 | 17,614 | 10,398 | 20,935 | 13,391 | 7,544 | 5,810 | 3,440 | 2,370 | 513 | 321 | 192 | 754 | 462 | 292 |
| 40–44 | 42,021 | 25,820 | 16,201 | 32,125 | 20,095 | 12,030 | 8,206 | 4,675 | 3,531 | 650 | 428 | 222 | 1,040 | 622 | 418 |
| 45–49 | 73,569 | 44,946 | 28,623 | 57,398 | 35,738 | 21,660 | 13,581 | 7,665 | 5,916 | 990 | 607 | 383 | 1,600 | 936 | 664 |
| 50–54 | 109,638 | 67,072 | 42,566 | 85,651 | 53,279 | 32,372 | 20,512 | 11,728 | 8,784 | 1,213 | 704 | 509 | 2,262 | 1,361 | 901 |
| 55–59 | 139,961 | 86,775 | 53,186 | 110,343 | 69,195 | 41,148 | 25,246 | 14,939 | 10,307 | 1,380 | 837 | 543 | 2,992 | 1,804 | 1,188 |
| 60–64 | 170,841 | 102,520 | 68,321 | 139,240 | 84,101 | 55,139 | 26,570 | 15,519 | 11,051 | 1,324 | 753 | 571 | 3,707 | 2,147 | 1,560 |
| 65–69 | 189,962 | 109,519 | 80,443 | 158,882 | 92,184 | 66,698 | 25,781 | 14,289 | 11,492 | 1,349 | 738 | 611 | 3,950 | 2,308 | 1,642 |
| 70–74 | 217,189 | 120,185 | 97,004 | 184,095 | 102,609 | 81,486 | 26,710 | 14,106 | 12,604 | 1,454 | 769 | 685 | 4,930 | 2,701 | 2,229 |
| 75–79 | 273,348 | 143,006 | 130,342 | 237,879 | 125,427 | 112,452 | 28,238 | 13,898 | 14,340 | 1,388 | 705 | 683 | 5,843 | 2,976 | 2,867 |
| 80–84 | 352,303 | 168,824 | 183,479 | 314,629 | 152,116 | 162,513 | 29,305 | 12,704 | 16,601 | 1,297 | 593 | 704 | 7,072 | 3,411 | 3,661 |
| 85 and over | 765,474 | 275,866 | 489,608 | 697,733 | 252,958 | 444,775 | 51,795 | 16,243 | 35,552 | 2,042 | 743 | 1,299 | 13,904 | 5,922 | 7,982 |
| Not stated | 126 | 87 | 39 | 95 | 66 | 29 | 23 | 18 | 5 | – | – | – | 8 | 3 | 5 |

See footnotes at end of table.

**Table 3. Number of deaths and death rates, by age, race, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes]

| Age (years) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Rate | | | | | | | | | | | | | | |
| All ages[4] | 799.5 | 812.0 | 787.4 | 861.7 | 866.1 | 857.3 | 682.2 | 725.4 | 642.7 | 365.1 | 397.5 | 332.4 | 301.1 | 327.0 | 277.3 |
| Under 1 year[5] | 623.4 | 680.2 | 564.0 | 537.2 | 584.3 | 488.0 | 1,102.1 | 1,206.5 | 994.4 | 455.3 | 542.5 | 366.4 | 389.3 | 434.4 | 341.8 |
| 1–4 | 26.5 | 29.6 | 23.3 | 24.6 | 27.4 | 21.6 | 38.1 | 42.9 | 33.2 | 29.4 | 34.3 | 24.4 | 17.9 | 19.3 | 16.3 |
| 5–9 | 11.5 | 12.8 | 10.1 | 10.9 | 12.1 | 9.7 | 15.0 | 16.9 | 13.0 | 12.2 | 15.2 | * | 8.5 | 9.6 | 7.4 |
| 10–14 | 14.3 | 16.3 | 12.1 | 13.6 | 15.6 | 11.5 | 19.1 | 22.2 | 16.0 | 16.6 | 21.1 | 12.0 | 7.8 | 7.2 | 8.5 |
| 15–19 | 49.4 | 69.6 | 28.1 | 47.0 | 64.7 | 28.3 | 67.0 | 102.5 | 30.5 | 61.5 | 87.1 | 34.5 | 22.8 | 29.3 | 15.9 |
| 20–24 | 86.5 | 126.4 | 44.8 | 82.7 | 119.2 | 44.2 | 122.4 | 189.1 | 57.3 | 102.8 | 147.5 | 53.7 | 36.9 | 55.3 | 18.0 |
| 25–29 | 96.0 | 135.7 | 55.7 | 92.6 | 130.0 | 53.6 | 140.3 | 206.0 | 79.5 | 110.4 | 139.6 | 79.1 | 37.9 | 53.7 | 23.4 |
| 30–34 | 110.2 | 147.7 | 72.6 | 106.1 | 141.5 | 69.5 | 164.6 | 228.4 | 107.1 | 134.7 | 174.5 | 92.6 | 40.5 | 51.4 | 30.8 |
| 35–39 | 138.8 | 175.4 | 102.6 | 133.8 | 169.5 | 97.3 | 208.7 | 263.0 | 160.5 | 175.4 | 216.1 | 133.5 | 51.9 | 67.2 | 38.1 |
| 40–44 | 201.1 | 248.4 | 154.3 | 194.7 | 241.8 | 146.9 | 291.4 | 351.2 | 237.7 | 232.1 | 302.3 | 160.4 | 80.3 | 101.8 | 61.1 |
| 45–49 | 324.0 | 401.0 | 248.9 | 314.4 | 392.5 | 236.7 | 458.8 | 549.8 | 377.8 | 348.7 | 431.2 | 267.6 | 132.6 | 164.8 | 104.0 |
| 50–54 | 491.7 | 613.5 | 374.5 | 471.9 | 592.7 | 353.5 | 731.5 | 893.0 | 589.3 | 477.8 | 570.0 | 390.5 | 207.2 | 268.6 | 154.0 |
| 55–59 | 711.7 | 911.2 | 524.5 | 678.9 | 869.4 | 496.1 | 1,104.8 | 1,425.7 | 833.0 | 699.4 | 878.5 | 532.2 | 322.1 | 427.8 | 234.2 |
| 60–64 | 1,015.8 | 1,269.2 | 781.7 | 982.4 | 1,222.1 | 756.2 | 1,523.4 | 1,977.9 | 1,151.8 | 892.0 | 1,047.5 | 745.9 | 492.9 | 632.2 | 378.1 |
| 65–69 | 1,527.6 | 1,871.3 | 1,222.0 | 1,495.8 | 1,825.2 | 1,197.3 | 2,148.8 | 2,745.1 | 1,691.9 | 1,377.8 | 1,591.5 | 1,185.6 | 765.6 | 982.5 | 584.3 |
| 70–74 | 2,340.9 | 2,831.9 | 1,926.9 | 2,315.5 | 2,792.1 | 1,905.9 | 3,041.6 | 3,862.0 | 2,457.3 | 2,202.4 | 2,555.9 | 1,906.4 | 1,285.7 | 1,555.4 | 1,062.5 |
| 75–79 | 3,735.4 | 4,493.7 | 3,151.9 | 3,734.9 | 4,472.1 | 3,154.8 | 4,450.5 | 5,677.3 | 3,679.8 | 3,221.2 | 3,840.9 | 2,761.3 | 2,155.2 | 2,598.0 | 1,831.3 |
| 80–84 | 6,134.1 | 7,358.2 | 5,319.8 | 6,171.5 | 7,379.2 | 5,351.7 | 6,710.4 | 8,414.7 | 5,809.8 | 4,811.0 | 5,489.7 | 4,357.2 | 3,895.1 | 4,791.6 | 3,316.8 |
| 85 and over | 13,934.3 | 15,414.3 | 13,219.2 | 14,147.6 | 15,640.3 | 13,419.3 | 13,187.2 | 14,715.3 | 12,589.9 | 9,615.3 | 10,268.1 | 9,277.9 | 9,418.1 | 10,824.5 | 8,590.1 |

– Quantity zero.

* Figure does not meet standards of reliability or precision; see Technical Notes.

[1]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. In 2010, multiple-race data were reported by 37 states and the District of Columbia; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[2]Includes Aleuts and Eskimos.

[3]Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

[4]Figures for age not stated are included in "All ages" but are not distributed among age groups.

[5]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical Notes.

## Table 4. Number of deaths and death rates, by Hispanic origin, race for non-Hispanic population, age, and sex: United States, 2010

[Rates per 100,000 population in specified group; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Age (years) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Number | | | | | | | | | | | | | | |
| All ages | 2,468,435 | 1,232,432 | 1,236,003 | 144,490 | 79,622 | 64,868 | 2,318,218 | 1,149,438 | 1,168,780 | 1,969,916 | 971,604 | 998,312 | 283,438 | 143,824 | 139,614 |
| Under 1 year | 24,586 | 13,702 | 10,884 | 5,170 | 2,870 | 2,300 | 19,189 | 10,709 | 8,480 | 11,025 | 6,144 | 4,881 | 7,071 | 3,931 | 3,140 |
| 1–4 | 4,316 | 2,460 | 1,856 | 930 | 524 | 406 | 3,373 | 1,931 | 1,442 | 2,139 | 1,219 | 920 | 993 | 570 | 423 |
| 5–9 | 2,330 | 1,325 | 1,005 | 423 | 245 | 178 | 1,901 | 1,077 | 824 | 1,283 | 722 | 561 | 481 | 275 | 206 |
| 10–14 | 2,949 | 1,729 | 1,220 | 528 | 298 | 230 | 2,406 | 1,420 | 986 | 1,627 | 969 | 658 | 637 | 374 | 263 |
| 15–19 | 10,887 | 7,866 | 3,021 | 1,883 | 1,436 | 447 | 8,964 | 6,400 | 2,564 | 6,013 | 4,152 | 1,861 | 2,482 | 1,929 | 553 |
| 20–24 | 18,664 | 13,924 | 4,740 | 2,912 | 2,253 | 659 | 15,696 | 11,629 | 4,067 | 10,834 | 7,927 | 2,907 | 4,064 | 3,104 | 960 |
| 25–29 | 20,263 | 14,429 | 5,834 | 2,940 | 2,217 | 723 | 17,255 | 12,156 | 5,099 | 12,207 | 8,637 | 3,570 | 4,172 | 2,940 | 1,232 |
| 30–34 | 21,996 | 14,763 | 7,233 | 3,082 | 2,244 | 838 | 18,845 | 12,470 | 6,375 | 13,279 | 8,846 | 4,433 | 4,614 | 3,031 | 1,583 |
| 35–39 | 28,012 | 17,614 | 10,398 | 3,497 | 2,399 | 1,098 | 24,435 | 15,160 | 9,275 | 17,508 | 11,045 | 6,463 | 5,710 | 3,368 | 2,342 |
| 40–44 | 42,021 | 25,820 | 16,201 | 4,645 | 3,061 | 1,584 | 37,213 | 22,649 | 14,564 | 27,491 | 17,025 | 10,466 | 8,097 | 4,607 | 3,490 |
| 45–49 | 73,569 | 44,946 | 28,623 | 6,640 | 4,310 | 2,330 | 66,657 | 40,459 | 26,198 | 50,736 | 31,406 | 19,330 | 13,423 | 7,568 | 5,855 |
| 50–54 | 109,638 | 67,072 | 42,566 | 8,275 | 5,317 | 2,958 | 100,918 | 61,448 | 39,470 | 77,298 | 47,889 | 29,409 | 20,275 | 11,578 | 8,697 |
| 55–59 | 139,961 | 86,775 | 53,186 | 9,504 | 6,100 | 3,404 | 129,931 | 80,304 | 49,627 | 100,742 | 62,997 | 37,745 | 24,964 | 14,768 | 10,196 |
| 60–64 | 170,841 | 102,520 | 68,321 | 10,562 | 6,409 | 4,153 | 159,734 | 95,733 | 64,001 | 128,523 | 77,555 | 50,968 | 26,324 | 15,370 | 10,954 |
| 65–69 | 189,962 | 109,519 | 80,443 | 10,765 | 6,223 | 4,542 | 178,654 | 102,928 | 75,726 | 148,016 | 85,858 | 62,158 | 25,491 | 14,113 | 11,378 |
| 70–74 | 217,189 | 120,185 | 97,004 | 12,197 | 6,817 | 5,380 | 204,474 | 113,049 | 91,425 | 171,789 | 95,709 | 76,080 | 26,439 | 13,947 | 12,492 |
| 75–79 | 273,348 | 143,006 | 130,342 | 14,654 | 7,664 | 6,990 | 258,146 | 135,025 | 123,121 | 223,128 | 117,699 | 105,429 | 27,956 | 13,738 | 14,218 |
| 80–84 | 352,303 | 168,824 | 183,479 | 16,710 | 8,059 | 8,651 | 335,038 | 160,476 | 174,562 | 297,855 | 144,024 | 153,831 | 28,986 | 12,543 | 16,443 |
| 85 and over | 765,474 | 275,866 | 489,608 | 29,166 | 11,171 | 17,995 | 735,305 | 264,358 | 470,947 | 668,361 | 241,741 | 426,620 | 51,242 | 16,055 | 35,187 |
| Not stated | 126 | 87 | 39 | 7 | 5 | 2 | 84 | 57 | 27 | 62 | 40 | 22 | 17 | 15 | 2 |

See footnotes at end of table.

**Table 4. Number of deaths and death rates, by Hispanic origin, race for non-Hispanic population, age, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Age (years) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| | Rate | | | | | | | | | | | | | | |
| All ages[4] | 799.5 | 812.0 | 787.4 | 286.2 | 310.8 | 260.9 | 897.6 | 911.1 | 884.7 | 984.3 | 987.5 | 981.2 | 718.7 | 764.5 | 676.9 |
| Under 1 year[5] | 623.4 | 680.2 | 564.0 | 510.7 | 556.8 | 462.9 | 654.5 | 714.5 | 591.8 | 529.3 | 575.9 | 480.4 | 1,170.4 | 1,281.5 | 1,055.7 |
| 1–4 | 26.5 | 29.6 | 23.3 | 22.7 | 25.0 | 20.2 | 27.7 | 31.1 | 24.3 | 24.7 | 27.5 | 21.8 | 40.2 | 45.4 | 34.8 |
| 5–9 | 11.5 | 12.8 | 10.1 | 8.8 | 10.0 | 7.6 | 12.2 | 13.6 | 10.8 | 11.4 | 12.5 | 10.2 | 15.9 | 17.9 | 13.9 |
| 10–14 | 14.3 | 16.3 | 12.1 | 11.7 | 12.9 | 10.4 | 14.9 | 17.2 | 12.5 | 13.8 | 16.0 | 11.5 | 20.2 | 23.4 | 17.0 |
| 15–19 | 49.4 | 69.6 | 28.1 | 41.5 | 61.2 | 20.4 | 51.2 | 71.4 | 30.0 | 47.5 | 63.9 | 30.1 | 70.6 | 108.0 | 31.9 |
| 20–24 | 86.5 | 126.4 | 44.8 | 67.4 | 97.9 | 32.6 | 90.9 | 133.5 | 47.6 | 85.4 | 123.2 | 46.5 | 129.5 | 200.2 | 60.5 |
| 25–29 | 96.0 | 135.7 | 55.7 | 68.2 | 97.4 | 35.5 | 102.8 | 145.4 | 60.5 | 98.0 | 137.6 | 57.8 | 149.2 | 219.0 | 84.7 |
| 30–34 | 110.2 | 147.7 | 72.6 | 74.7 | 104.7 | 42.3 | 119.0 | 158.8 | 79.8 | 113.6 | 150.1 | 76.5 | 175.4 | 243.4 | 114.3 |
| 35–39 | 138.8 | 175.4 | 102.6 | 90.7 | 121.7 | 58.2 | 149.7 | 187.8 | 112.4 | 144.0 | 180.8 | 106.9 | 218.7 | 274.7 | 169.2 |
| 40–44 | 201.1 | 248.4 | 154.3 | 134.9 | 173.6 | 94.4 | 213.3 | 262.4 | 165.2 | 205.5 | 253.9 | 156.9 | 304.2 | 366.4 | 248.5 |
| 45–49 | 324.0 | 401.0 | 248.9 | 219.7 | 282.6 | 155.6 | 338.6 | 417.8 | 261.9 | 327.0 | 406.9 | 247.9 | 475.4 | 569.2 | 392.0 |
| 50–54 | 491.7 | 613.5 | 374.5 | 338.9 | 439.1 | 240.4 | 508.2 | 632.0 | 389.5 | 485.2 | 607.1 | 365.7 | 753.0 | 918.4 | 607.4 |
| 55–59 | 711.7 | 911.2 | 524.5 | 516.1 | 686.1 | 357.5 | 729.0 | 930.0 | 540.1 | 691.4 | 881.6 | 508.4 | 1,132.8 | 1,462.7 | 853.9 |
| 60–64 | 1,015.8 | 1,269.2 | 781.7 | 769.6 | 992.8 | 571.4 | 1,034.2 | 1,288.1 | 798.7 | 995.3 | 1,233.3 | 769.4 | 1,561.9 | 2,027.9 | 1,181.1 |
| 65–69 | 1,527.6 | 1,871.3 | 1,222.0 | 1,134.9 | 1,450.9 | 874.0 | 1,555.3 | 1,897.8 | 1,249.0 | 1,518.9 | 1,844.8 | 1,221.1 | 2,195.3 | 2,802.4 | 1,730.3 |
| 70–74 | 2,340.9 | 2,831.9 | 1,926.9 | 1,742.1 | 2,229.5 | 1,364.2 | 2,383.7 | 2,870.6 | 1,970.4 | 2,353.0 | 2,822.4 | 1,945.9 | 3,110.7 | 3,947.8 | 2,515.2 |
| 75–79 | 3,735.4 | 4,493.7 | 3,151.9 | 2,868.8 | 3,592.4 | 2,349.8 | 3,792.4 | 4,547.8 | 3,208.0 | 3,786.8 | 4,518.2 | 3,207.2 | 4,542.9 | 5,789.4 | 3,760.6 |
| 80–84 | 6,134.1 | 7,358.2 | 5,319.8 | 4,754.1 | 5,795.9 | 4,072.2 | 6,213.8 | 7,445.5 | 5,393.5 | 6,246.1 | 7,459.8 | 5,420.4 | 6,834.3 | 8,566.4 | 5,921.1 |
| 85 and over | 13,934.3 | 15,414.3 | 13,219.2 | 10,777.9 | 11,779.8 | 10,237.3 | 14,078.7 | 15,597.8 | 13,348.9 | 14,286.1 | 15,816.6 | 13,543.5 | 13,385.7 | 14,974.2 | 12,767.7 |

[1]Figures for origin not stated are included in "All origins" but are not distributed among specified origins.

[2]Includes races other than white and black.

[3]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. In 2010, multiple-race data were reported by 37 states and the District of Columbia; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[4]Figures for age not stated are included in "All ages" but are not distributed among age groups.

[5]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical Notes.

**Table 5. Number of deaths and death rates by age, and age-adjusted death rates, by specified Hispanic origin, race for non-Hispanic population, and sex: United States, 2010**

[Rates are per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Death rates for "All origins," Hispanic, non-Hispanic, non-Hispanic white, and non-Hispanic black are based on populations enumerated in the 2010 census as of April 1; populations used for computing death rates for Mexican, Puerto Rican, Cuban, Central and South American, and Other and unknown Hispanic are based on the American Community Survey adjusted to resident population control totals. The control totals are 2010-based population estimates for the United States for July 1, 2010; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Hispanic origin, race for non-Hispanic population, and sex | All ages | Age group (years) | | | | | | | | | | | Age not stated | Age-adjusted rate[2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[1] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | | |
| | | | | | | | | Number | | | | | | |
| All origins | 2,468,435 | 24,586 | 4,316 | 5,279 | 29,551 | 42,259 | 70,033 | 183,207 | 310,802 | 407,151 | 625,651 | 765,474 | 126 | . . . |
| Male | 1,232,432 | 13,702 | 2,460 | 3,054 | 21,790 | 29,192 | 43,434 | 112,018 | 189,295 | 229,704 | 311,830 | 275,866 | 87 | . . . |
| Female | 1,236,003 | 10,884 | 1,856 | 2,225 | 7,761 | 13,067 | 26,599 | 71,189 | 121,507 | 177,447 | 313,821 | 489,608 | 39 | . . . |
| Hispanic | 144,490 | 5,170 | 930 | 951 | 4,795 | 6,022 | 8,142 | 14,915 | 20,066 | 22,962 | 31,364 | 29,166 | 7 | . . . |
| Male | 79,622 | 2,870 | 524 | 543 | 3,689 | 4,461 | 5,460 | 9,627 | 12,509 | 13,040 | 15,723 | 11,171 | 5 | . . . |
| Female | 64,868 | 2,300 | 406 | 408 | 1,106 | 1,561 | 2,682 | 5,288 | 7,557 | 9,922 | 15,641 | 17,995 | 2 | . . . |
| Mexican | 80,578 | 3,488 | 664 | 661 | 3,243 | 3,835 | 5,022 | 8,800 | 11,479 | 12,503 | 16,700 | 14,179 | 4 | . . . |
| Male | 45,633 | 1,921 | 381 | 370 | 2,515 | 2,858 | 3,384 | 5,778 | 7,148 | 7,086 | 8,372 | 5,817 | 3 | . . . |
| Female | 34,945 | 1,567 | 283 | 291 | 728 | 977 | 1,638 | 3,022 | 4,331 | 5,417 | 8,328 | 8,362 | 1 | . . . |
| Puerto Rican | 18,681 | 503 | 76 | 92 | 402 | 630 | 1,033 | 2,110 | 3,050 | 3,428 | 3,960 | 3,395 | 2 | . . . |
| Male | 10,283 | 299 | 42 | 61 | 299 | 453 | 648 | 1,312 | 1,957 | 1,992 | 1,971 | 1,248 | 1 | . . . |
| Female | 8,398 | 204 | 34 | 31 | 103 | 177 | 385 | 798 | 1,093 | 1,436 | 1,989 | 2,147 | 1 | . . . |
| Cuban | 14,085 | 83 | 9 | 13 | 91 | 115 | 242 | 720 | 1,154 | 2,229 | 4,232 | 5,197 | – | . . . |
| Male | 7,275 | 47 | 3 | 12 | 71 | 85 | 175 | 492 | 773 | 1,350 | 2,321 | 1,946 | – | . . . |
| Female | 6,810 | 36 | 6 | 1 | 20 | 30 | 67 | 228 | 381 | 879 | 1,911 | 3,251 | – | . . . |
| Central and South American | 13,406 | 486 | 87 | 84 | 537 | 807 | 982 | 1,458 | 1,822 | 2,072 | 2,597 | 2,474 | – | . . . |
| Male | 6,923 | 255 | 49 | 44 | 428 | 627 | 684 | 899 | 1,041 | 1,059 | 1,113 | 724 | – | . . . |
| Female | 6,483 | 231 | 38 | 40 | 109 | 180 | 298 | 559 | 781 | 1,013 | 1,484 | 1,750 | – | . . . |
| Other and unknown Hispanic | 17,740 | 610 | 94 | 101 | 522 | 635 | 863 | 1,827 | 2,561 | 2,730 | 3,875 | 3,921 | 1 | . . . |
| Male | 9,508 | 348 | 49 | 56 | 376 | 438 | 569 | 1,146 | 1,590 | 1,553 | 1,946 | 1,436 | 1 | . . . |
| Female | 8,232 | 262 | 45 | 45 | 146 | 197 | 294 | 681 | 971 | 1,177 | 1,929 | 2,485 | – | . . . |
| Non-Hispanic[3] | 2,318,218 | 19,189 | 3,373 | 4,307 | 24,660 | 36,100 | 61,648 | 167,575 | 289,665 | 383,128 | 593,184 | 735,305 | 84 | . . . |
| Male | 1,149,438 | 10,709 | 1,931 | 2,497 | 18,029 | 24,626 | 37,809 | 101,907 | 176,037 | 215,977 | 295,501 | 264,358 | 57 | . . . |
| Female | 1,168,780 | 8,480 | 1,442 | 1,810 | 6,631 | 11,474 | 23,839 | 65,668 | 113,628 | 167,151 | 297,683 | 470,947 | 27 | . . . |
| White[4] | 1,969,916 | 11,025 | 2,139 | 2,910 | 16,847 | 25,486 | 44,999 | 128,034 | 229,265 | 319,805 | 520,983 | 668,361 | 62 | . . . |
| Male | 971,604 | 6,144 | 1,219 | 1,691 | 12,079 | 17,483 | 28,070 | 79,295 | 140,552 | 181,567 | 261,723 | 241,741 | 40 | . . . |
| Female | 998,312 | 4,881 | 920 | 1,219 | 4,768 | 8,003 | 16,929 | 48,739 | 88,713 | 138,238 | 259,260 | 426,620 | 22 | . . . |
| Black[4] | 283,438 | 7,071 | 993 | 1,118 | 6,546 | 8,786 | 13,807 | 33,698 | 51,288 | 51,930 | 56,942 | 51,242 | 17 | . . . |
| Male | 143,824 | 3,931 | 570 | 649 | 5,033 | 5,971 | 7,975 | 19,146 | 30,138 | 28,060 | 26,281 | 16,055 | 15 | . . . |
| Female | 139,614 | 3,140 | 423 | 469 | 1,513 | 2,815 | 5,832 | 14,552 | 21,150 | 23,870 | 30,661 | 35,187 | 2 | . . . |
| Origin not stated[5] | 5,727 | 227 | 13 | 21 | 96 | 137 | 243 | 717 | 1,071 | 1,061 | 1,103 | 1,003 | 35 | . . . |
| Male | 3,372 | 123 | 5 | 14 | 72 | 105 | 165 | 484 | 749 | 687 | 606 | 337 | 25 | . . . |
| Female | 2,355 | 104 | 8 | 7 | 24 | 32 | 78 | 233 | 322 | 374 | 497 | 666 | 10 | . . . |

See footnotes at end of table.

**Table 5. Number of deaths and death rates by age, and age-adjusted death rates, by specified Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Rates are per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Death rates for "All origins," Hispanic, non-Hispanic, non-Hispanic white, and non-Hispanic black are based on populations enumerated in the 2010 census as of April 1; populations used for computing death rates for Mexican, Puerto Rican, Cuban, Central and South American, and Other and unknown Hispanic are based on the American Community Survey adjusted to resident population control totals. The control totals are 2010-based population estimates for the United States for July 1, 2010; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes]

| Hispanic origin, race for non-Hispanic population, and sex | All ages | Age group (years) | | | | | | | | | | | Age not stated | Age-adjusted rate[2] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[1] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | | |
| | | Rate[6] | | | | | | | | | | | | |
| All origins[7] | 799.5 | 623.4 | 26.5 | 12.9 | 67.7 | 102.9 | 170.5 | 407.1 | 851.9 | 1,875.1 | 4,790.2 | 13,934.3 | . . . | 747.0 |
| Male | 812.0 | 680.2 | 29.6 | 14.6 | 97.6 | 141.5 | 212.5 | 505.9 | 1,075.5 | 2,275.1 | 5,693.7 | 15,414.3 | . . . | 887.1 |
| Female | 787.4 | 564.0 | 23.3 | 11.1 | 36.4 | 64.0 | 128.9 | 311.4 | 643.5 | 1,527.5 | 4,137.7 | 13,219.2 | . . . | 634.9 |
| Hispanic | 286.2 | 510.7 | 22.7 | 10.2 | 54.2 | 71.4 | 111.6 | 273.0 | 624.4 | 1,392.7 | 3,637.3 | 10,777.9 | . . . | 558.6 |
| Male | 310.8 | 556.8 | 25.0 | 11.4 | 79.4 | 100.9 | 146.2 | 351.9 | 815.1 | 1,775.0 | 4,461.9 | 11,779.8 | . . . | 677.7 |
| Female | 260.9 | 462.9 | 20.2 | 8.9 | 26.3 | 38.9 | 75.2 | 193.9 | 450.1 | 1,085.5 | 3,067.4 | 10,237.3 | . . . | 463.4 |
| Mexican | 244.7 | 547.3 | 22.4 | 10.0 | 54.6 | 69.8 | 106.6 | 272.8 | 624.5 | 1,408.0 | 3,748.1 | 9,599.5 | . . . | 545.8 |
| Male | 269.8 | 597.0 | 25.2 | 10.9 | 80.0 | 98.8 | 138.0 | 348.6 | 789.3 | 1,745.4 | 4,441.6 | 10,858.7 | . . . | 656.9 |
| Female | 218.2 | 496.6 | 19.5 | 8.9 | 26.1 | 37.6 | 72.6 | 192.8 | 464.5 | 1,123.8 | 3,239.6 | 8,883.0 | . . . | 453.5 |
| Puerto Rican | 398.2 | 610.3 | 20.9 | 10.8 | 47.9 | 88.6 | 163.1 | 389.0 | 865.0 | 1,773.0 | 4,438.2 | 11,160.4 | . . . | 673.4 |
| Male | 447.3 | 740.7 | 22.0 | 13.9 | 70.9 | 129.9 | 214.1 | 498.5 | 1,218.1 | 2,274.5 | 5,438.0 | 12,650.8 | . . . | 839.5 |
| Female | 350.9 | 485.1 | 19.7 | 7.5 | 24.6 | 48.8 | 116.4 | 285.8 | 569.4 | 1,357.8 | 3,754.2 | 10,445.1 | . . . | 546.0 |
| Cuban | 751.8 | 416.7 | * | * | 37.2 | 52.6 | 84.3 | 248.2 | 610.7 | 1,437.4 | 3,553.3 | 12,950.4 | . . . | 575.0 |
| Male | 769.2 | 463.3 | * | * | 57.6 | 76.4 | 115.7 | 313.3 | 830.6 | 1,957.7 | 4,434.0 | 14,631.6 | . . . | 715.1 |
| Female | 733.9 | 368.3 | * | * | 16.5 | 28.0 | 49.3 | 171.4 | 397.3 | 1,020.8 | 2,862.7 | 12,117.0 | . . . | 461.6 |
| Central and South American | 179.1 | 422.8 | 16.7 | 7.9 | 43.7 | 55.4 | 80.1 | 153.0 | 344.5 | 838.0 | 2,318.3 | 8,163.7 | . . . | 371.1 |
| Male | 184.4 | 455.8 | 18.5 | 8.2 | 64.4 | 80.4 | 110.2 | 199.0 | 438.1 | 1,083.2 | 2,963.7 | 9,850.3 | . . . | 468.5 |
| Female | 173.9 | 391.4 | 14.9 | 7.5 | 19.3 | 26.6 | 49.2 | 111.5 | 268.1 | 677.7 | 1,992.9 | 7,623.6 | . . . | 312.4 |
| Other and unknown Hispanic | 471.7 | 1,082.4 | 36.4 | 16.4 | 78.1 | 118.9 | 171.1 | 378.5 | 776.9 | 1,522.1 | 4,060.1 | 11,066.9 | . . . | 647.1 |
| Male | 523.2 | 1,270.5 | 37.7 | 17.1 | 110.2 | 166.3 | 246.0 | 517.2 | 1,080.7 | 1,981.5 | 4,980.8 | 12,591.0 | . . . | 813.4 |
| Female | 423.5 | 904.5 | 35.0 | 15.5 | 44.6 | 72.7 | 107.7 | 260.8 | 532.1 | 1,165.5 | 3,422.0 | 10,343.4 | . . . | 522.7 |
| Non-Hispanic[3] | 897.6 | 654.5 | 27.7 | 13.6 | 70.9 | 110.6 | 182.5 | 423.8 | 870.7 | 1,909.5 | 4,862.6 | 14,078.7 | . . . | 762.6 |
| Male | 911.1 | 714.5 | 31.1 | 15.4 | 102.0 | 151.9 | 226.4 | 525.1 | 1,095.7 | 2,307.0 | 5,766.6 | 15,597.8 | . . . | 904.6 |
| Female | 884.7 | 591.8 | 24.3 | 11.7 | 38.8 | 69.9 | 139.7 | 326.1 | 660.5 | 1,561.7 | 4,207.9 | 13,348.9 | . . . | 649.2 |
| White[4] | 984.3 | 529.3 | 24.7 | 12.6 | 66.4 | 105.6 | 176.2 | 407.2 | 834.2 | 1,876.2 | 4,886.8 | 14,286.1 | . . . | 755.0 |
| Male | 987.5 | 575.9 | 27.5 | 14.3 | 93.4 | 143.6 | 219.1 | 508.1 | 1,046.2 | 2,256.9 | 5,770.3 | 15,816.6 | . . . | 892.5 |
| Female | 981.2 | 480.4 | 21.8 | 10.9 | 38.4 | 66.8 | 133.1 | 307.7 | 631.5 | 1,535.9 | 4,232.6 | 13,543.5 | . . . | 643.3 |
| Black[4] | 718.7 | 1,170.4 | 40.2 | 18.1 | 98.3 | 161.9 | 261.9 | 610.9 | 1,318.8 | 2,582.2 | 5,477.8 | 13,385.7 | . . . | 920.4 |
| Male | 764.5 | 1,281.5 | 45.4 | 20.7 | 150.8 | 230.8 | 321.1 | 739.1 | 1,705.0 | 3,274.7 | 6,849.1 | 14,974.2 | . . . | 1,131.7 |
| Female | 676.9 | 1,055.7 | 34.8 | 15.5 | 45.6 | 99.1 | 209.1 | 497.4 | 996.9 | 2,068.1 | 4,675.5 | 12,767.7 | . . . | 770.8 |

. . . Category not applicable. – Quantity zero. * Figure does not meet standards of reliability or precision; see Technical Notes.

[1]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical Notes.

[2]For method of computation, see Technical Notes. [3]Includes races other than white and black.

[4]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. In 2010, multiple-race data were reported by 37 states and the District of Columbia; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[5]Includes deaths for which Hispanic origin was not reported on the death certificate.

[6]Figures for age not stated are included in "All ages" but not distributed among age groups.

[7]Figures for origin not stated are included in "All origins" but not distributed among specified origins.

## Table 6. Abridged life table for the total population, 2010

[For explanation of the columns of the life table, see "United States Life Tables, 2008," *National Vital Statistics Reports*, Volume 61, Number 3]

| Age (years) | Probability of dying between ages $x$ to $x + n$ | Number surviving to age $x$ | Number dying between ages $x$ to $x + n$ | Person-years lived between ages $x$ to $x + n$ | Total number of person-years lived above age $x$ | Expectancy of life at age $x$ |
|---|---|---|---|---|---|---|
| | ${}_nq_x$ | $l_x$ | ${}_nd_x$ | ${}_nL_x$ | $T_x$ | $e_x$ |
| 0–1 | 0.006123 | 100,000 | 612 | 99,465 | 7,866,031 | 78.7 |
| 1–5 | 0.001071 | 99,388 | 106 | 397,294 | 7,766,566 | 78.1 |
| 5–10 | 0.000573 | 99,281 | 57 | 496,250 | 7,369,272 | 74.2 |
| 10–15 | 0.000708 | 99,224 | 70 | 495,989 | 6,873,022 | 69.3 |
| 15–20 | 0.002463 | 99,154 | 244 | 495,240 | 6,377,033 | 64.3 |
| 20–25 | 0.004317 | 98,910 | 427 | 493,529 | 5,881,793 | 59.5 |
| 25–30 | 0.004791 | 98,483 | 472 | 491,249 | 5,388,265 | 54.7 |
| 30–35 | 0.005500 | 98,011 | 539 | 488,743 | 4,897,016 | 50.0 |
| 35–40 | 0.006913 | 97,472 | 674 | 485,752 | 4,408,273 | 45.2 |
| 40–45 | 0.009979 | 96,798 | 966 | 481,756 | 3,922,521 | 40.5 |
| 45–50 | 0.016044 | 95,832 | 1,538 | 475,582 | 3,440,766 | 35.9 |
| 50–55 | 0.024343 | 94,295 | 2,295 | 466,064 | 2,965,184 | 31.4 |
| 55–60 | 0.035106 | 91,999 | 3,230 | 452,346 | 2,499,119 | 27.2 |
| 60–65 | 0.049847 | 88,770 | 4,425 | 433,346 | 2,046,773 | 23.1 |
| 65–70 | 0.074412 | 84,345 | 6,276 | 406,910 | 1,613,427 | 19.1 |
| 70–75 | 0.112312 | 78,068 | 8,768 | 369,609 | 1,206,518 | 15.5 |
| 75–80 | 0.174772 | 69,300 | 12,112 | 317,693 | 836,909 | 12.1 |
| 80–85 | 0.274365 | 57,189 | 15,691 | 248,042 | 519,216 | 9.1 |
| 85–90 | 0.430887 | 41,498 | 17,881 | 162,716 | 271,174 | 6.5 |
| 90–95 | 0.615150 | 23,617 | 14,528 | 79,221 | 108,458 | 4.6 |
| 95–100 | 0.783137 | 9,089 | 7,118 | 24,685 | 29,237 | 3.2 |
| 100 and over | 1.000000 | 1,971 | 1,971 | 4,552 | 4,552 | 2.3 |

## Table 7. Life expectancy at selected ages, by race, Hispanic origin, race for non-Hispanic population, and sex: United States, 2010

[Race categories are consistent with the 1977 Office of Management and Budget standards. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race; see Technical Notes]

| | All races and origins[1] | | | White[2] | | | Black[2] | | | Hispanic[3] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Exact age (years) | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| 0 | 78.7 | 76.2 | 81.0 | 78.9 | 76.5 | 81.3 | 75.1 | 71.8 | 78.0 | 81.2 | 78.5 | 83.8 | 78.8 | 76.4 | 81.1 | 74.7 | 71.4 | 77.7 |
| 1 | 78.1 | 75.7 | 80.5 | 78.4 | 76.0 | 80.7 | 75.0 | 71.8 | 77.8 | 80.7 | 78.0 | 83.2 | 78.2 | 75.8 | 80.5 | 74.6 | 71.3 | 77.5 |
| 5 | 74.2 | 71.8 | 76.6 | 74.4 | 72.1 | 76.7 | 71.1 | 67.9 | 73.9 | 76.7 | 74.0 | 79.2 | 74.3 | 71.9 | 76.6 | 70.7 | 67.5 | 73.6 |
| 10 | 69.3 | 66.8 | 71.6 | 69.5 | 67.1 | 71.8 | 66.1 | 62.9 | 69.0 | 71.8 | 69.1 | 74.3 | 69.3 | 67.0 | 71.6 | 65.8 | 62.5 | 68.7 |
| 15 | 64.3 | 61.9 | 66.6 | 64.5 | 62.1 | 66.8 | 61.2 | 58.0 | 64.0 | 66.8 | 64.1 | 69.3 | 64.4 | 62.0 | 66.6 | 60.8 | 57.6 | 63.7 |
| 20 | 59.5 | 57.1 | 61.7 | 59.7 | 57.3 | 61.9 | 56.4 | 53.3 | 59.1 | 62.0 | 59.3 | 64.4 | 59.5 | 57.2 | 61.7 | 56.0 | 52.9 | 58.8 |
| 25 | 54.7 | 52.4 | 56.9 | 54.9 | 52.7 | 57.0 | 51.7 | 48.8 | 54.3 | 57.1 | 54.6 | 59.5 | 54.7 | 52.5 | 56.9 | 51.4 | 48.4 | 54.0 |
| 30 | 50.0 | 47.8 | 52.0 | 50.1 | 48.0 | 52.2 | 47.1 | 44.3 | 49.5 | 52.3 | 49.8 | 54.6 | 50.0 | 47.9 | 52.0 | 46.7 | 43.9 | 49.2 |
| 35 | 45.2 | 43.1 | 47.2 | 45.4 | 43.3 | 47.4 | 42.4 | 39.7 | 44.7 | 47.5 | 45.1 | 49.7 | 45.3 | 43.2 | 47.2 | 42.1 | 39.4 | 44.5 |
| 40 | 40.5 | 38.5 | 42.4 | 40.7 | 38.7 | 42.6 | 37.8 | 35.2 | 40.1 | 42.7 | 40.4 | 44.8 | 40.6 | 38.6 | 42.5 | 37.6 | 34.9 | 39.8 |
| 45 | 35.9 | 33.9 | 37.7 | 36.0 | 34.1 | 37.9 | 33.4 | 30.8 | 35.5 | 38.0 | 35.7 | 40.0 | 36.0 | 34.0 | 37.8 | 33.1 | 30.5 | 35.3 |
| 50 | 31.4 | 29.6 | 33.2 | 31.6 | 29.7 | 33.3 | 29.1 | 26.6 | 31.1 | 33.5 | 31.2 | 35.3 | 31.5 | 29.7 | 33.2 | 28.8 | 26.3 | 31.0 |
| 55 | 27.2 | 25.4 | 28.8 | 27.3 | 25.5 | 28.8 | 25.1 | 22.7 | 27.0 | 29.0 | 26.9 | 30.8 | 27.2 | 25.5 | 28.8 | 24.9 | 22.5 | 26.8 |
| 60 | 23.1 | 21.5 | 24.5 | 23.1 | 21.6 | 24.5 | 21.3 | 19.2 | 23.0 | 24.7 | 22.8 | 26.3 | 23.1 | 21.5 | 24.4 | 21.2 | 19.0 | 22.9 |
| 65 | 19.1 | 17.7 | 20.3 | 19.2 | 17.8 | 20.3 | 17.8 | 15.9 | 19.3 | 20.6 | 18.8 | 22.0 | 19.1 | 17.7 | 20.3 | 17.7 | 15.8 | 19.1 |
| 70 | 15.5 | 14.2 | 16.5 | 15.5 | 14.2 | 16.4 | 14.6 | 12.9 | 15.8 | 16.8 | 15.1 | 18.0 | 15.4 | 14.2 | 16.4 | 14.5 | 12.8 | 15.7 |
| 75 | 12.1 | 11.0 | 12.9 | 12.1 | 11.0 | 12.8 | 11.6 | 10.2 | 12.5 | 13.2 | 11.7 | 14.1 | 12.0 | 11.0 | 12.8 | 11.6 | 10.1 | 12.5 |
| 80 | 9.1 | 8.2 | 9.7 | 9.0 | 8.2 | 9.6 | 9.0 | 7.8 | 9.6 | 9.9 | 8.7 | 10.7 | 9.0 | 8.1 | 9.6 | 8.9 | 7.8 | 9.6 |
| 85 | 6.5 | 5.8 | 6.9 | 6.5 | 5.8 | 6.9 | 6.8 | 5.9 | 7.1 | 7.1 | 6.1 | 7.7 | 6.5 | 5.8 | 6.9 | 6.7 | 5.9 | 7.1 |
| 90 | 4.6 | 4.1 | 4.8 | 4.5 | 4.0 | 4.8 | 5.0 | 4.4 | 5.2 | 5.0 | 4.2 | 5.4 | 4.5 | 4.0 | 4.8 | 5.0 | 4.4 | 5.2 |
| 95 | 3.2 | 2.9 | 3.3 | 3.2 | 2.8 | 3.3 | 3.7 | 3.3 | 3.8 | 3.5 | 2.9 | 3.7 | 3.2 | 2.8 | 3.3 | 3.8 | 3.3 | 3.8 |
| 100 | 2.3 | 2.1 | 2.3 | 2.3 | 2.0 | 2.3 | 2.8 | 2.5 | 2.8 | 2.4 | 2.1 | 2.6 | 2.3 | 2.1 | 2.3 | 2.9 | 2.6 | 2.8 |

[1]Includes races other than white and black.

[2]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[3]Life expectanies for the Hispanic population are based on death rates adjusted for misclassification; see Technical Notes.

**Table 8. Life expectancy at birth, by race, Hispanic origin, race for non-Hispanic population, and sex: United States, 1940, 1950, 1960, 1970, and 1975–2010**

[Race categories are consistent with the 1977 Office of Management and Budget standards. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race; see Technical Notes]

| Year | All races and origins[1] | | | White[2] | | | Black[2] | | | Hispanic[3] | | | Non-Hispanic white | | | Non-Hispanic black | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| 2010[4,5] | 78.7 | 76.2 | 81.0 | 78.9 | 76.5 | 81.3 | 75.1 | 71.8 | 78.0 | 81.2 | 78.5 | 83.8 | 78.8 | 76.4 | 81.1 | 74.7 | 71.4 | 77.7 |
| 2009[4,5,6] | 78.5 | 76.0 | 80.9 | 78.8 | 76.4 | 81.2 | 74.7 | 71.4 | 77.7 | 81.1 | 78.4 | 83.5 | 78.7 | 76.3 | 81.1 | 74.3 | 70.9 | 77.4 |
| 2008[4,5,6] | 78.2 | 75.6 | 80.6 | 78.5 | 76.1 | 80.9 | 74.3 | 70.9 | 77.3 | 80.8 | 78.0 | 83.3 | 78.4 | 76.0 | 80.7 | 73.9 | 70.5 | 77.0 |
| 2007[4,5,6] | 78.1 | 75.5 | 80.6 | 78.5 | 76.0 | 80.9 | 73.8 | 70.3 | 77.0 | 80.7 | 77.8 | 83.2 | 78.4 | 75.9 | 80.8 | 73.5 | 69.9 | 76.7 |
| 2006[4,5,6] | 77.8 | 75.2 | 80.3 | 78.3 | 75.8 | 80.7 | 73.4 | 69.9 | 76.7 | 80.3 | 77.5 | 82.9 | 78.2 | 75.7 | 80.6 | 73.1 | 69.5 | 76.4 |
| 2005[4,5,6] | 77.6 | 75.0 | 80.1 | 78.0 | 75.5 | 80.5 | 73.0 | 69.5 | 76.2 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 2004[4,5,6] | 77.6 | 75.0 | 80.1 | 78.1 | 75.5 | 80.5 | 72.9 | 69.4 | 76.1 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 2003[4,5,6] | 77.2 | 74.5 | 79.7 | 77.7 | 75.1 | 80.2 | 72.4 | 68.9 | 75.7 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 2002[4,6] | 77.0 | 74.4 | 79.6 | 77.5 | 74.9 | 80.1 | 72.2 | 68.7 | 75.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 2001[4,6] | 77.0 | 74.3 | 79.5 | 77.5 | 74.9 | 80.0 | 72.0 | 68.5 | 75.3 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 2000 | 76.8 | 74.1 | 79.3 | 77.3 | 74.7 | 79.9 | 71.8 | 68.2 | 75.1 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1999 | 76.7 | 73.9 | 79.4 | 77.3 | 74.6 | 79.9 | 71.4 | 67.8 | 74.7 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1998 | 76.7 | 73.8 | 79.5 | 77.3 | 74.5 | 80.0 | 71.3 | 67.6 | 74.8 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1997 | 76.5 | 73.6 | 79.4 | 77.1 | 74.3 | 79.9 | 71.1 | 67.2 | 74.7 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1996 | 76.1 | 73.1 | 79.1 | 76.8 | 73.9 | 79.7 | 70.2 | 66.1 | 74.2 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1995 | 75.8 | 72.5 | 78.9 | 76.5 | 73.4 | 79.6 | 69.6 | 65.2 | 73.9 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1994 | 75.7 | 72.4 | 79.0 | 76.5 | 73.3 | 79.6 | 69.5 | 64.9 | 73.9 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1993 | 75.5 | 72.2 | 78.8 | 76.3 | 73.1 | 79.5 | 69.2 | 64.6 | 73.7 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1992 | 75.8 | 72.3 | 79.1 | 76.5 | 73.2 | 79.8 | 69.6 | 65.0 | 73.9 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1991 | 75.5 | 72.0 | 78.9 | 76.3 | 72.9 | 79.6 | 69.3 | 64.6 | 73.8 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1990 | 75.4 | 71.8 | 78.8 | 76.1 | 72.7 | 79.4 | 69.1 | 64.5 | 73.6 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1989 | 75.1 | 71.7 | 78.5 | 75.9 | 72.5 | 79.2 | 68.8 | 64.3 | 73.3 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1988 | 74.9 | 71.4 | 78.3 | 75.6 | 72.2 | 78.9 | 68.9 | 64.4 | 73.2 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1987 | 74.9 | 71.4 | 78.3 | 75.6 | 72.1 | 78.9 | 69.1 | 64.7 | 73.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1986 | 74.7 | 71.2 | 78.2 | 75.4 | 71.9 | 78.8 | 69.1 | 64.8 | 73.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1985 | 74.7 | 71.1 | 78.2 | 75.3 | 71.8 | 78.7 | 69.3 | 65.0 | 73.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1984 | 74.7 | 71.1 | 78.2 | 75.3 | 71.8 | 78.7 | 69.5 | 65.3 | 73.6 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1983 | 74.6 | 71.0 | 78.1 | 75.2 | 71.6 | 78.7 | 69.4 | 65.2 | 73.5 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1982 | 74.5 | 70.8 | 78.1 | 75.1 | 71.5 | 78.7 | 69.4 | 65.1 | 73.6 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1981 | 74.1 | 70.4 | 77.8 | 74.8 | 71.1 | 78.4 | 68.9 | 64.5 | 73.2 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1980 | 73.7 | 70.0 | 77.4 | 74.4 | 70.7 | 78.1 | 68.1 | 63.8 | 72.5 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1979 | 73.9 | 70.0 | 77.8 | 74.6 | 70.8 | 78.4 | 68.5 | 64.0 | 72.9 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1978 | 73.5 | 69.6 | 77.3 | 74.1 | 70.4 | 78.0 | 68.1 | 63.7 | 72.4 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1977 | 73.3 | 69.5 | 77.2 | 74.0 | 70.2 | 77.9 | 67.7 | 63.4 | 72.0 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1976 | 72.9 | 69.1 | 76.8 | 73.6 | 69.9 | 77.5 | 67.2 | 62.9 | 71.6 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1975 | 72.6 | 68.8 | 76.6 | 73.4 | 69.5 | 77.3 | 66.8 | 62.4 | 71.3 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1970 | 70.8 | 67.1 | 74.7 | 71.7 | 68.0 | 75.6 | 64.1 | 60.0 | 68.3 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1960 | 69.7 | 66.6 | 73.1 | 70.6 | 67.4 | 74.1 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1950 | 68.2 | 65.6 | 71.1 | 69.1 | 66.5 | 72.2 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 1940 | 62.9 | 60.8 | 65.2 | 64.2 | 62.1 | 66.6 | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |

- - - Data not available.

[1]Includes races other than white and black.

[2]Includes Hispanic and non-Hispanic persons.

[3]Life expectancies for the Hispanic population are based on death rates adjusted for misclassification; see Technical Notes.

[4]Life table data for 2001–2010 are based on revised life table methodology; see Technical Notes.

[5]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010, by 34 states and the District of Columbia in 2009 and 2008, by 27 states and the District of Columbia in 2007, by 25 states and the District of Columbia in 2006, by 21 states and the District of Columbia in 2005, by 15 states in 2004, and by 7 states in 2003; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[6]Life table data for 2001–2009 have been re-estimated using new 2001–2009 intercensal population estimates and may differ from data previously published; see Technical Notes.

## Table 9. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 2010: United States, 1999–2010

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) and year | All ages[1] | Age group (years) | | | | | | | | | | | Age-adjusted rate[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| All causes | | | | | | | | | | | | | |
| 2010 | 799.5 | 623.4 | 26.5 | 12.9 | 67.7 | 102.9 | 170.5 | 407.1 | 851.9 | 1,875.1 | 4,790.2 | 13,934.3 | 747.0 |
| 2009[4] | 794.5 | 659.7 | 27.4 | 13.8 | 69.8 | 104.4 | 180.0 | 418.1 | 856.7 | 1,888.7 | 4,820.2 | 13,660.1 | 749.6 |
| 2008[4] | 812.9 | 678.9 | 29.3 | 13.9 | 74.2 | 105.1 | 181.0 | 419.6 | 867.1 | 1,958.4 | 4,998.1 | 14,332.4 | 774.9 |
| 2007[4] | 804.6 | 702.5 | 29.4 | 15.2 | 78.8 | 107.2 | 186.0 | 420.3 | 866.7 | 1,976.0 | 4,987.1 | 14,160.9 | 775.3 |
| 2006[4] | 813.1 | 705.8 | 29.1 | 15.2 | 81.4 | 109.0 | 192.0 | 427.5 | 881.3 | 2,031.4 | 5,096.1 | 14,426.7 | 791.8 |
| 2005[4] | 828.4 | 710.2 | 29.9 | 16.3 | 80.7 | 106.8 | 194.9 | 431.9 | 898.5 | 2,109.7 | 5,251.8 | 14,982.4 | 815.0 |
| 2004[4] | 818.8 | 695.9 | 30.3 | 16.7 | 79.7 | 104.1 | 194.9 | 426.8 | 903.2 | 2,141.0 | 5,267.4 | 14,777.6 | 813.7 |
| 2003[4] | 843.9 | 704.9 | 31.8 | 16.9 | 81.1 | 105.2 | 202.6 | 433.1 | 937.3 | 2,235.0 | 5,451.3 | 15,401.4 | 843.5 |
| 2002[4] | 849.5 | 709.5 | 31.4 | 17.4 | 80.9 | 105.1 | 204.2 | 431.0 | 948.7 | 2,300.3 | 5,543.8 | 15,589.5 | 855.9 |
| 2001[4] | 848.0 | 687.0 | 33.4 | 17.2 | 80.2 | 105.6 | 203.5 | 426.7 | 972.5 | 2,344.2 | 5,573.7 | 15,432.6 | 858.8 |
| 2000 | 854.0 | 736.7 | 32.4 | 18.0 | 79.9 | 101.4 | 198.9 | 425.6 | 992.2 | 2,399.1 | 5,666.5 | 15,524.4 | 869.0 |
| 1999 | 857.0 | 736.0 | 34.2 | 18.6 | 79.3 | 102.2 | 198.0 | 418.2 | 1,005.0 | 2,457.3 | 5,714.5 | 15,554.6 | 875.6 |
| Diseases of heart (I00–I09,I11,I13,I20–I51) | | | | | | | | | | | | | |
| 2010 | 193.6 | 8.3 | 1.0 | 0.5 | 2.4 | 7.8 | 25.8 | 81.6 | 186.6 | 409.2 | 1,172.0 | 4,285.2 | 179.1 |
| 2009[4] | 195.4 | 9.6 | 0.9 | 0.5 | 2.4 | 7.8 | 26.7 | 82.3 | 190.0 | 422.8 | 1,210.8 | 4,316.9 | 182.8 |
| 2008[4] | 202.8 | 9.6 | 1.2 | 0.6 | 2.5 | 8.1 | 26.9 | 85.2 | 195.3 | 441.4 | 1,271.7 | 4,598.4 | 192.1 |
| 2007[4] | 204.5 | 10.2 | 1.1 | 0.6 | 2.5 | 8.1 | 27.7 | 85.2 | 197.8 | 454.8 | 1,308.6 | 4,668.1 | 196.1 |
| 2006[4] | 211.7 | 8.6 | 1.0 | 0.6 | 2.5 | 8.4 | 28.5 | 88.0 | 205.1 | 483.0 | 1,378.0 | 4,877.6 | 205.5 |
| 2005[4] | 220.7 | 8.9 | 0.9 | 0.6 | 2.6 | 8.3 | 29.2 | 89.7 | 212.8 | 512.3 | 1,458.5 | 5,188.3 | 216.8 |
| 2004[4] | 222.8 | 10.5 | 1.2 | 0.6 | 2.5 | 8.1 | 29.5 | 90.2 | 217.1 | 535.7 | 1,504.1 | 5,233.8 | 221.6 |
| 2003[4] | 236.1 | 11.0 | 1.2 | 0.6 | 2.7 | 8.3 | 30.8 | 92.4 | 232.3 | 579.8 | 1,607.7 | 5,570.7 | 236.3 |
| 2002[4] | 242.3 | 12.7 | 1.1 | 0.6 | 2.5 | 8.0 | 30.7 | 93.9 | 240.5 | 612.0 | 1,673.2 | 5,726.3 | 244.6 |
| 2001[4] | 245.7 | 11.9 | 1.5 | 0.7 | 2.5 | 8.0 | 29.6 | 92.4 | 248.9 | 632.6 | 1,723.0 | 5,784.1 | 249.5 |
| 2000 | 252.6 | 13.0 | 1.2 | 0.7 | 2.6 | 7.4 | 29.2 | 94.2 | 261.2 | 665.6 | 1,780.3 | 5,926.1 | 257.6 |
| 1999 | 259.9 | 13.8 | 1.2 | 0.7 | 2.8 | 7.6 | 30.2 | 95.7 | 269.9 | 701.7 | 1,849.9 | 6,063.0 | 266.5 |
| Malignant neoplasms (C00–C97) | | | | | | | | | | | | | |
| 2010 | 186.2 | 1.6 | 2.1 | 2.2 | 3.7 | 8.8 | 28.8 | 111.6 | 300.1 | 666.1 | 1,202.2 | 1,729.5 | 172.8 |
| 2009[4] | 185.0 | 1.8 | 2.2 | 2.2 | 3.8 | 9.0 | 30.2 | 112.8 | 301.7 | 668.2 | 1,213.0 | 1,699.3 | 173.5 |
| 2008[4] | 186.0 | 1.7 | 2.4 | 2.2 | 3.8 | 8.8 | 30.1 | 113.4 | 304.7 | 688.4 | 1,230.9 | 1,724.6 | 176.4 |
| 2007[4] | 186.9 | 1.7 | 2.3 | 2.4 | 3.8 | 8.7 | 31.0 | 114.2 | 311.4 | 702.9 | 1,250.1 | 1,739.4 | 179.3 |
| 2006[4] | 187.6 | 1.9 | 2.4 | 2.2 | 3.8 | 9.3 | 32.2 | 116.3 | 317.7 | 716.3 | 1,259.2 | 1,748.3 | 181.8 |
| 2005[4] | 189.3 | 1.9 | 2.4 | 2.5 | 4.0 | 9.2 | 33.5 | 118.6 | 323.9 | 733.2 | 1,272.8 | 1,778.2 | 185.1 |
| 2004[4] | 189.2 | 1.8 | 2.5 | 2.5 | 4.1 | 9.3 | 33.6 | 119.0 | 330.8 | 746.8 | 1,278.6 | 1,767.4 | 186.8 |
| 2003[4] | 192.0 | 1.9 | 2.5 | 2.6 | 4.0 | 9.5 | 35.1 | 122.1 | 341.6 | 763.5 | 1,299.7 | 1,792.3 | 190.9 |
| 2002[4] | 193.7 | 1.9 | 2.6 | 2.6 | 4.2 | 9.8 | 36.0 | 124.1 | 349.7 | 787.2 | 1,308.8 | 1,812.4 | 194.3 |
| 2001[4] | 194.3 | 1.6 | 2.7 | 2.4 | 4.2 | 10.1 | 36.8 | 125.8 | 359.4 | 799.7 | 1,313.7 | 1,802.9 | 196.5 |
| 2000 | 196.5 | 2.4 | 2.7 | 2.5 | 4.4 | 9.8 | 36.6 | 127.5 | 366.7 | 816.3 | 1,335.6 | 1,819.4 | 199.6 |
| 1999 | 197.0 | 1.8 | 2.7 | 2.5 | 4.5 | 10.0 | 37.1 | 127.6 | 374.6 | 827.1 | 1,331.5 | 1,805.8 | 200.8 |
| Chronic lower respiratory diseases (J40–J47) | | | | | | | | | | | | | |
| 2010 | 44.7 | 0.9 | 0.3 | 0.3 | 0.3 | 0.7 | 1.7 | 9.9 | 39.0 | 146.3 | 369.9 | 690.7 | 42.2 |
| 2009[4] | 44.8 | 0.7 | 0.4 | 0.3 | 0.4 | 0.7 | 1.8 | 10.4 | 40.0 | 147.5 | 376.4 | 684.9 | 42.7 |
| 2008[4] | 46.4 | 0.8 | 0.3 | 0.3 | 0.4 | 0.6 | 1.9 | 9.9 | 41.1 | 155.9 | 395.4 | 722.7 | 44.7 |
| 2007[4] | 42.5 | 1.0 | 0.4 | 0.3 | 0.3 | 0.7 | 1.9 | 9.5 | 38.6 | 145.5 | 367.1 | 652.0 | 41.4 |
| 2006[4] | 41.8 | 0.7 | 0.3 | 0.3 | 0.4 | 0.6 | 1.9 | 9.1 | 38.8 | 147.0 | 362.0 | 641.3 | 41.0 |
| 2005[4] | 44.3 | 0.8 | 0.4 | 0.3 | 0.3 | 0.7 | 2.0 | 9.4 | 41.6 | 158.4 | 385.0 | 691.9 | 43.9 |
| 2004[4] | 41.7 | 0.9 | 0.3 | 0.3 | 0.4 | 0.6 | 2.0 | 8.4 | 40.1 | 152.1 | 366.2 | 643.2 | 41.6 |
| 2003[4] | 43.6 | 0.8 | 0.4 | 0.3 | 0.5 | 0.7 | 2.2 | 8.7 | 43.1 | 161.7 | 382.2 | 670.2 | 43.7 |
| 2002[4] | 43.4 | 1.0 | 0.4 | 0.3 | 0.5 | 0.8 | 2.3 | 8.7 | 42.2 | 162.0 | 385.8 | 670.3 | 43.9 |
| 2001[4] | 43.2 | 1.0 | 0.3 | 0.3 | 0.4 | 0.7 | 2.2 | 8.4 | 44.5 | 167.3 | 379.3 | 658.3 | 43.9 |
| 2000 | 43.4 | 0.9 | 0.3 | 0.3 | 0.5 | 0.7 | 2.1 | 8.6 | 44.2 | 169.4 | 386.1 | 648.6 | 44.2 |
| 1999 | 44.5 | 0.9 | 0.4 | 0.3 | 0.5 | 0.8 | 2.0 | 8.5 | 47.5 | 177.2 | 397.8 | 646.0 | 45.4 |

See footnotes at end of table.

**Table 9. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 2010: United States, 1999–2010—Con.**

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) and year | All ages[1] | Age group (years) | | | | | | | | | | | Age-adjusted rate[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Cerebrovascular diseases (I60–I69) | | | | | | | | | | | | | |
| 2010 | 41.9 | 3.3 | 0.3 | 0.2 | 0.4 | 1.3 | 4.6 | 13.1 | 29.3 | 81.7 | 288.3 | 993.8 | 39.1 |
| 2009[4] | 42.0 | 3.7 | 0.3 | 0.2 | 0.4 | 1.3 | 4.6 | 13.7 | 29.7 | 82.8 | 294.9 | 992.2 | 39.6 |
| 2008[4] | 44.1 | 3.4 | 0.4 | 0.2 | 0.4 | 1.3 | 4.8 | 13.7 | 30.6 | 87.3 | 313.3 | 1,071.0 | 42.1 |
| 2007[4] | 45.1 | 3.2 | 0.3 | 0.2 | 0.5 | 1.3 | 5.0 | 14.5 | 31.7 | 91.4 | 320.8 | 1,110.7 | 43.5 |
| 2006[4] | 46.0 | 3.5 | 0.3 | 0.2 | 0.5 | 1.3 | 5.1 | 14.6 | 32.9 | 94.9 | 333.9 | 1,131.7 | 44.8 |
| 2005[4] | 48.6 | 3.1 | 0.4 | 0.2 | 0.5 | 1.4 | 5.2 | 15.0 | 32.7 | 99.8 | 358.4 | 1,239.7 | 48.0 |
| 2004[4] | 51.3 | 3.2 | 0.3 | 0.2 | 0.5 | 1.4 | 5.4 | 14.8 | 34.0 | 106.6 | 385.6 | 1,331.9 | 51.2 |
| 2003[4] | 54.4 | 2.5 | 0.3 | 0.2 | 0.5 | 1.5 | 5.6 | 15.0 | 35.5 | 111.9 | 409.8 | 1,446.0 | 54.6 |
| 2002[4] | 56.6 | 3.0 | 0.3 | 0.2 | 0.4 | 1.4 | 5.4 | 15.1 | 37.1 | 119.6 | 430.0 | 1,520.1 | 57.2 |
| 2001[4] | 57.4 | 2.7 | 0.4 | 0.2 | 0.5 | 1.5 | 5.5 | 15.0 | 38.3 | 122.9 | 443.3 | 1,532.0 | 58.4 |
| 2000 | 59.6 | 3.3 | 0.3 | 0.2 | 0.5 | 1.5 | 5.8 | 16.0 | 41.0 | 128.6 | 461.3 | 1,589.2 | 60.9 |
| 1999 | 60.0 | 2.7 | 0.3 | 0.2 | 0.5 | 1.4 | 5.7 | 15.2 | 40.6 | 130.8 | 469.8 | 1,614.8 | 61.6 |
| Accidents (unintentional injuries) (V01–X59,Y85–Y86) | | | | | | | | | | | | | |
| 2010 | 39.1 | 28.1 | 8.6 | 4.0 | 28.3 | 35.5 | 36.0 | 43.7 | 38.4 | 43.3 | 106.1 | 328.4 | 38.0 |
| 2009[4] | 38.5 | 29.5 | 9.0 | 4.1 | 28.6 | 34.5 | 36.4 | 44.5 | 36.5 | 42.1 | 103.5 | 310.9 | 37.5 |
| 2008[4] | 40.1 | 31.8 | 9.1 | 4.6 | 32.5 | 36.3 | 38.1 | 45.8 | 37.4 | 43.9 | 105.7 | 318.3 | 39.2 |
| 2007[4] | 41.1 | 31.0 | 9.9 | 5.4 | 36.8 | 37.7 | 39.6 | 46.2 | 36.8 | 44.4 | 105.0 | 313.6 | 40.4 |
| 2006[4] | 40.8 | 28.4 | 10.1 | 5.6 | 37.9 | 38.0 | 40.5 | 45.5 | 35.8 | 43.8 | 104.7 | 299.2 | 40.2 |
| 2005[4] | 39.9 | 27.0 | 10.5 | 5.9 | 37.1 | 35.7 | 38.9 | 43.2 | 35.4 | 45.7 | 106.0 | 303.5 | 39.5 |
| 2004[4] | 38.3 | 26.2 | 10.4 | 6.5 | 36.8 | 33.2 | 37.6 | 40.7 | 32.9 | 43.5 | 103.6 | 295.8 | 38.1 |
| 2003[4] | 37.7 | 23.8 | 11.0 | 6.4 | 36.9 | 32.0 | 38.0 | 38.8 | 32.7 | 43.7 | 101.6 | 294.3 | 37.6 |
| 2002[4] | 37.1 | 23.9 | 10.6 | 6.6 | 37.7 | 31.9 | 37.4 | 36.7 | 31.3 | 44.0 | 101.1 | 289.6 | 37.1 |
| 2001[4] | 35.6 | 24.3 | 11.2 | 6.9 | 35.8 | 30.0 | 35.4 | 33.9 | 30.5 | 42.6 | 100.7 | 282.2 | 35.7 |
| 2000 | 34.8 | 23.1 | 11.9 | 7.3 | 36.0 | 29.5 | 34.1 | 32.6 | 30.9 | 41.9 | 95.1 | 273.5 | 34.9 |
| 1999 | 35.1 | 22.3 | 12.4 | 7.6 | 35.3 | 29.6 | 33.8 | 31.8 | 30.6 | 44.6 | 100.5 | 282.4 | 35.3 |
| Alzheimer's disease (G30) | | | | | | | | | | | | | |
| 2010 | 27.0 | * | * | * | * | * | * | 0.3 | 2.1 | 19.8 | 184.5 | 987.1 | 25.1 |
| 2009[4] | 25.8 | * | * | * | * | * | * | 0.2 | 2.0 | 19.4 | 179.1 | 945.3 | 24.2 |
| 2008[4] | 27.1 | * | * | * | * | * | * | 0.2 | 2.2 | 21.1 | 192.5 | 1,002.2 | 25.8 |
| 2007[4] | 24.8 | * | * | * | * | * | * | 0.2 | 2.2 | 20.2 | 175.8 | 928.7 | 23.8 |
| 2006[4] | 24.3 | * | * | * | * | * | * | 0.2 | 2.1 | 19.9 | 175.0 | 923.4 | 23.7 |
| 2005[4] | 24.2 | * | * | * | * | * | * | 0.2 | 2.1 | 20.2 | 177.0 | 935.5 | 24.0 |
| 2004[4] | 22.5 | * | * | * | * | * | * | 0.2 | 1.8 | 19.5 | 168.5 | 875.3 | 22.6 |
| 2003[4] | 21.9 | * | * | * | * | * | * | 0.2 | 2.0 | 20.7 | 164.1 | 846.8 | 22.1 |
| 2002[4] | 20.5 | * | * | * | * | * | * | 0.1 | 1.9 | 19.6 | 157.7 | 790.9 | 20.8 |
| 2001[4] | 18.9 | * | * | * | * | * | * | 0.2 | 2.1 | 18.6 | 147.2 | 725.4 | 19.3 |
| 2000 | 17.6 | * | * | * | * | * | * | 0.2 | 2.0 | 18.7 | 139.6 | 667.7 | 18.1 |
| 1999 | 16.0 | * | * | * | * | * | * | 0.2 | 1.9 | 17.4 | 129.5 | 601.3 | 16.5 |
| Diabetes mellitus (E10–E14) | | | | | | | | | | | | | |
| 2010 | 22.4 | * | * | 0.1 | 0.4 | 1.5 | 4.4 | 12.5 | 32.0 | 67.6 | 144.1 | 285.5 | 20.8 |
| 2009[4] | 22.4 | * | * | 0.1 | 0.4 | 1.5 | 4.5 | 12.8 | 32.1 | 69.6 | 145.8 | 282.6 | 21.0 |
| 2008[4] | 23.2 | * | * | 0.1 | 0.5 | 1.4 | 4.4 | 12.6 | 33.3 | 74.7 | 153.2 | 298.9 | 22.0 |
| 2007[4] | 23.7 | * | * | 0.1 | 0.4 | 1.5 | 4.6 | 13.1 | 34.1 | 76.7 | 161.9 | 302.2 | 22.8 |
| 2006[4] | 24.3 | * | * | 0.1 | 0.4 | 1.7 | 4.8 | 13.1 | 35.8 | 80.6 | 166.2 | 310.4 | 23.6 |
| 2005[4] | 25.4 | * | * | 0.1 | 0.5 | 1.6 | 4.7 | 13.4 | 36.9 | 85.7 | 177.0 | 338.8 | 24.9 |
| 2004[4] | 25.0 | * | * | 0.1 | 0.4 | 1.5 | 4.6 | 13.4 | 36.8 | 86.2 | 176.6 | 328.2 | 24.7 |
| 2003[4] | 25.6 | * | * | 0.1 | 0.4 | 1.7 | 4.6 | 13.9 | 38.3 | 90.0 | 180.7 | 335.1 | 25.5 |
| 2002[4] | 25.5 | * | * | 0.1 | 0.4 | 1.6 | 4.8 | 13.7 | 37.5 | 90.9 | 182.4 | 337.0 | 25.6 |
| 2001[4] | 25.0 | * | * | 0.1 | 0.4 | 1.5 | 4.3 | 13.6 | 38.1 | 91.0 | 181.1 | 328.6 | 25.4 |
| 2000 | 24.6 | * | * | 0.1 | 0.4 | 1.6 | 4.3 | 13.1 | 37.8 | 90.7 | 179.5 | 319.7 | 25.0 |
| 1999 | 24.5 | * | * | 0.1 | 0.4 | 1.4 | 4.3 | 12.9 | 38.3 | 91.8 | 178.0 | 317.2 | 25.0 |

See footnotes at end of table.

**Table 9. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 2010: United States, 1999–2010—Con.**

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) and year | All ages[1] | Age group (years) | | | | | | | | | | | Age-adjusted rate[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Nephritis, nephrotic syndrome and nephrosis (N00–N07,N17–N19,N25–N27) | | | | | | | | | | | | | |
| 2010 | 16.3 | 2.7 | * | 0.1 | 0.2 | 0.6 | 1.8 | 4.9 | 13.9 | 39.3 | 115.7 | 333.8 | 15.3 |
| 2009[4] | 16.0 | 2.8 | * | * | 0.2 | 0.7 | 2.0 | 5.2 | 13.5 | 38.7 | 115.1 | 321.4 | 15.1 |
| 2008[4] | 15.9 | 3.5 | * | * | 0.2 | 0.6 | 1.8 | 5.0 | 14.1 | 39.9 | 113.3 | 325.6 | 15.1 |
| 2007[4] | 15.4 | 3.5 | 0.1 | 0.1 | 0.2 | 0.7 | 1.8 | 5.1 | 13.4 | 39.4 | 112.4 | 317.9 | 14.9 |
| 2006[4] | 15.2 | 4.0 | * | * | 0.2 | 0.7 | 1.8 | 5.2 | 13.7 | 38.8 | 111.0 | 316.2 | 14.8 |
| 2005[4] | 14.9 | 4.0 | * | 0.1 | 0.2 | 0.7 | 1.7 | 4.8 | 13.5 | 38.8 | 110.2 | 313.1 | 14.7 |
| 2004[4] | 14.5 | 4.3 | * | 0.1 | 0.2 | 0.6 | 1.8 | 5.0 | 13.5 | 38.1 | 108.2 | 306.4 | 14.5 |
| 2003[4] | 14.6 | 4.6 | * | 0.1 | 0.2 | 0.7 | 1.8 | 4.9 | 13.6 | 39.7 | 109.3 | 309.3 | 14.7 |
| 2002[4] | 14.2 | 4.4 | * | 0.1 | 0.2 | 0.7 | 1.7 | 4.7 | 12.9 | 39.0 | 108.9 | 303.4 | 14.4 |
| 2001[4] | 13.9 | 3.3 | * | * | 0.2 | 0.6 | 1.7 | 4.6 | 13.1 | 40.0 | 104.0 | 293.8 | 14.1 |
| 2000 | 13.2 | 4.3 | * | 0.1 | 0.2 | 0.6 | 1.6 | 4.4 | 12.8 | 38.0 | 100.8 | 277.8 | 13.5 |
| 1999 | 12.7 | 4.4 | * | 0.1 | 0.2 | 0.6 | 1.6 | 4.0 | 12.0 | 37.1 | 97.6 | 268.9 | 13.0 |
| Influenza and pneumonia (J09–J18) | | | | | | | | | | | | | |
| 2010 | 16.2 | 4.9 | 0.6 | 0.2 | 0.4 | 0.9 | 1.9 | 4.3 | 9.9 | 27.9 | 102.4 | 426.2 | 15.1 |
| 2009[4] | 17.5 | 6.3 | 0.9 | 0.6 | 1.0 | 2.0 | 3.2 | 6.5 | 11.7 | 29.5 | 107.0 | 433.8 | 16.5 |
| 2008[4] | 18.5 | 5.5 | 0.9 | 0.2 | 0.5 | 0.9 | 2.1 | 5.1 | 10.9 | 30.5 | 118.6 | 512.3 | 17.6 |
| 2007[4] | 17.5 | 5.4 | 0.7 | 0.3 | 0.4 | 0.8 | 1.8 | 4.3 | 9.5 | 28.2 | 113.5 | 506.7 | 16.8 |
| 2006[4] | 18.9 | 6.5 | 0.8 | 0.2 | 0.4 | 0.9 | 1.9 | 4.6 | 9.9 | 31.6 | 127.3 | 547.0 | 18.4 |
| 2005[4] | 21.3 | 6.6 | 0.7 | 0.3 | 0.4 | 0.9 | 2.1 | 5.1 | 11.2 | 35.1 | 142.0 | 644.9 | 21.0 |
| 2004[4] | 20.4 | 6.8 | 0.8 | 0.2 | 0.4 | 0.8 | 2.0 | 4.6 | 10.8 | 34.2 | 139.1 | 622.8 | 20.4 |
| 2003[4] | 22.5 | 8.1 | 1.0 | 0.4 | 0.5 | 1.0 | 2.2 | 5.2 | 11.2 | 36.9 | 150.8 | 703.0 | 22.6 |
| 2002[4] | 22.8 | 6.7 | 0.7 | 0.2 | 0.4 | 0.9 | 2.2 | 4.8 | 11.2 | 37.2 | 156.6 | 732.4 | 23.2 |
| 2001[4] | 21.8 | 7.5 | 0.7 | 0.2 | 0.5 | 0.9 | 2.2 | 4.6 | 10.8 | 36.2 | 148.3 | 700.1 | 22.2 |
| 2000 | 23.2 | 7.6 | 0.7 | 0.2 | 0.5 | 0.9 | 2.4 | 4.7 | 11.9 | 39.1 | 160.3 | 744.1 | 23.7 |
| 1999 | 22.8 | 8.4 | 0.8 | 0.2 | 0.5 | 0.8 | 2.4 | 4.6 | 11.0 | 37.2 | 157.0 | 751.8 | 23.5 |
| Intentional self-harm (suicide) (*U03,X60–X84,Y87.0) | | | | | | | | | | | | | |
| 2010 | 12.4 | . . . | . . . | 0.7 | 10.5 | 14.0 | 16.0 | 19.6 | 17.5 | 13.7 | 15.7 | 17.6 | 12.1 |
| 2009[4] | 12.0 | . . . | . . . | 0.6 | 10.0 | 13.1 | 16.1 | 19.2 | 16.4 | 13.7 | 15.8 | 16.4 | 11.8 |
| 2008[4] | 11.8 | . . . | . . . | 0.5 | 9.9 | 13.2 | 15.9 | 18.6 | 16.0 | 13.6 | 16.1 | 16.4 | 11.6 |
| 2007[4] | 11.5 | . . . | . . . | 0.5 | 9.6 | 13.3 | 15.7 | 17.7 | 15.3 | 12.4 | 16.2 | 17.0 | 11.3 |
| 2006[4] | 11.2 | . . . | . . . | 0.5 | 9.8 | 12.7 | 15.2 | 17.2 | 14.4 | 12.4 | 15.8 | 17.3 | 11.0 |
| 2005[4] | 11.0 | . . . | . . . | 0.7 | 9.9 | 12.7 | 15.1 | 16.5 | 13.7 | 12.4 | 16.8 | 18.3 | 10.9 |
| 2004[4] | 11.1 | . . . | . . . | 0.7 | 10.3 | 12.9 | 15.2 | 16.6 | 13.7 | 12.2 | 16.3 | 17.6 | 11.0 |
| 2003[4] | 10.9 | . . . | . . . | 0.6 | 9.6 | 12.9 | 15.0 | 15.9 | 13.7 | 12.6 | 16.4 | 17.9 | 10.8 |
| 2002[4] | 11.0 | . . . | . . . | 0.6 | 9.8 | 12.8 | 15.3 | 15.8 | 13.5 | 13.4 | 17.7 | 18.9 | 10.9 |
| 2001[4,5] | 10.7 | . . . | . . . | 0.7 | 9.9 | 12.8 | 14.7 | 15.1 | 13.2 | 13.2 | 17.4 | 17.8 | 10.7 |
| 2000 | 10.4 | . . . | . . . | 0.7 | 10.2 | 12.0 | 14.5 | 14.4 | 12.1 | 12.5 | 17.6 | 19.6 | 10.4 |
| 1999 | 10.5 | . . . | . . . | 0.6 | 10.1 | 12.7 | 14.3 | 13.9 | 12.2 | 13.4 | 18.1 | 19.3 | 10.5 |
| Septicemia (A40–A41) | | | | | | | | | | | | | |
| 2010 | 11.3 | 5.5 | 0.4 | 0.2 | 0.3 | 0.8 | 1.9 | 5.2 | 12.6 | 30.1 | 76.0 | 179.0 | 10.6 |
| 2009[4] | 11.6 | 5.5 | 0.4 | 0.2 | 0.3 | 0.9 | 2.2 | 5.4 | 13.1 | 31.4 | 79.2 | 182.4 | 11.0 |
| 2008[4] | 11.8 | 7.0 | 0.6 | 0.2 | 0.3 | 0.9 | 2.1 | 5.7 | 13.3 | 31.4 | 82.0 | 189.8 | 11.3 |
| 2007[4] | 11.6 | 6.8 | 0.5 | 0.2 | 0.4 | 0.7 | 2.1 | 5.5 | 12.8 | 32.2 | 79.5 | 190.8 | 11.2 |
| 2006[4] | 11.5 | 6.7 | 0.6 | 0.2 | 0.3 | 0.7 | 2.0 | 5.2 | 12.6 | 31.6 | 82.1 | 193.0 | 11.2 |
| 2005[4] | 11.6 | 7.5 | 0.5 | 0.2 | 0.3 | 0.8 | 1.9 | 5.2 | 12.8 | 32.2 | 81.3 | 203.4 | 11.4 |
| 2004[4] | 11.4 | 6.8 | 0.5 | 0.2 | 0.3 | 0.8 | 1.9 | 5.4 | 12.8 | 32.1 | 81.5 | 199.6 | 11.3 |
| 2003[4] | 11.7 | 7.0 | 0.5 | 0.2 | 0.4 | 0.8 | 2.1 | 5.3 | 13.0 | 32.3 | 84.8 | 213.7 | 11.8 |
| 2002[4] | 11.8 | 7.5 | 0.5 | 0.2 | 0.3 | 0.8 | 1.9 | 5.2 | 12.6 | 34.5 | 86.3 | 213.4 | 11.9 |
| 2001[4] | 11.3 | 7.8 | 0.7 | 0.2 | 0.3 | 0.7 | 1.8 | 5.0 | 12.4 | 32.6 | 82.2 | 210.3 | 11.5 |
| 2000 | 11.1 | 7.2 | 0.6 | 0.2 | 0.3 | 0.7 | 1.9 | 4.9 | 11.9 | 31.0 | 80.4 | 215.7 | 11.3 |
| 1999 | 11.0 | 7.5 | 0.6 | 0.2 | 0.3 | 0.7 | 1.8 | 4.6 | 11.4 | 31.2 | 79.4 | 220.7 | 11.3 |

See footnotes at end of table.

**Table 9. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 2010: United States, 1999–2010—Con.**

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) and year | All ages[1] | Age group (years) | | | | | | | | | | | Age-adjusted rate[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Chronic liver disease and cirrhosis (K70,K73–K74) | | | | | | | | | | | | | |
| 2010 | 10.3 | * | * | * | 0.1 | 1.2 | 5.9 | 19.2 | 26.8 | 26.3 | 27.7 | 21.8 | 9.4 |
| 2009[4] | 10.0 | * | * | * | 0.1 | 1.1 | 6.0 | 18.7 | 25.9 | 25.4 | 27.2 | 21.1 | 9.1 |
| 2008[4] | 9.9 | * | * | * | 0.1 | 1.1 | 6.1 | 18.5 | 25.0 | 26.3 | 28.0 | 21.9 | 9.2 |
| 2007[4] | 9.7 | * | * | * | 0.1 | 1.0 | 6.0 | 18.7 | 24.2 | 26.2 | 28.2 | 21.7 | 9.1 |
| 2006[4] | 9.2 | * | * | * | 0.1 | 0.8 | 5.9 | 17.8 | 22.6 | 25.6 | 28.9 | 21.1 | 8.8 |
| 2005[4] | 9.3 | * | * | * | 0.1 | 0.8 | 6.2 | 17.7 | 23.3 | 26.8 | 28.9 | 21.3 | 8.9 |
| 2004[4] | 9.2 | * | * | * | * | 0.8 | 6.4 | 18.0 | 22.4 | 27.4 | 28.7 | 21.1 | 9.0 |
| 2003[4] | 9.5 | * | * | * | * | 0.9 | 6.8 | 18.3 | 22.9 | 29.2 | 29.9 | 21.2 | 9.3 |
| 2002[4] | 9.5 | * | * | * | 0.1 | 1.0 | 7.1 | 18.0 | 22.8 | 29.3 | 31.3 | 22.5 | 9.4 |
| 2001[4] | 9.5 | * | * | * | 0.1 | 1.0 | 7.4 | 18.4 | 22.9 | 29.8 | 30.2 | 22.7 | 9.5 |
| 2000 | 9.4 | * | * | * | 0.1 | 1.0 | 7.5 | 17.7 | 23.8 | 29.8 | 31.0 | 23.1 | 9.5 |
| 1999 | 9.4 | * | * | * | 0.1 | 1.0 | 7.3 | 17.4 | 23.7 | 30.6 | 31.9 | 23.2 | 9.6 |
| Essential hypertension and hypertensive renal disease (I10,I12,I15) | | | | | | | | | | | | | |
| 2010 | 8.6 | * | * | * | 0.0 | 0.3 | 1.0 | 3.1 | 7.3 | 16.7 | 51.8 | 212.0 | 8.0 |
| 2009[4] | 8.4 | * | * | * | 0.1 | 0.3 | 1.0 | 3.1 | 7.1 | 16.3 | 51.0 | 208.0 | 7.8 |
| 2008[4] | 8.5 | * | * | * | 0.1 | 0.3 | 1.0 | 3.0 | 7.2 | 16.5 | 51.9 | 215.3 | 8.0 |
| 2007[4] | 8.0 | * | * | * | 0.1 | 0.2 | 0.9 | 2.8 | 6.4 | 15.9 | 49.2 | 209.1 | 7.6 |
| 2006[4] | 8.0 | * | * | * | 0.0 | 0.3 | 0.9 | 3.0 | 6.8 | 16.5 | 50.8 | 206.1 | 7.7 |
| 2005[4] | 8.4 | * | * | * | 0.1 | 0.2 | 0.9 | 2.7 | 6.4 | 17.5 | 55.5 | 228.0 | 8.3 |
| 2004[4] | 7.9 | * | * | * | 0.1 | 0.3 | 0.8 | 2.7 | 6.3 | 16.9 | 52.5 | 212.2 | 7.9 |
| 2003[4] | 7.6 | * | * | * | 0.1 | 0.2 | 0.8 | 2.5 | 6.3 | 16.8 | 51.6 | 199.4 | 7.6 |
| 2002[4] | 7.0 | * | * | * | 0.1 | 0.2 | 0.8 | 2.3 | 5.7 | 15.9 | 48.1 | 189.6 | 7.1 |
| 2001[4] | 6.8 | * | * | * | 0.1 | 0.3 | 0.7 | 2.4 | 5.8 | 15.4 | 47.6 | 175.6 | 6.9 |
| 2000 | 6.4 | * | * | * | * | 0.2 | 0.8 | 2.3 | 5.9 | 15.1 | 45.5 | 162.9 | 6.5 |
| 1999 | 6.1 | * | * | * | * | 0.2 | 0.7 | 2.2 | 5.5 | 15.2 | 43.6 | 152.1 | 6.2 |
| Parkinson's disease (G20–G21) | | | | | | | | | | | | | |
| 2010 | 7.1 | * | * | * | * | * | * | 0.2 | 1.3 | 11.8 | 74.8 | 165.9 | 6.8 |
| 2009[4] | 6.7 | * | * | * | * | * | * | 0.2 | 1.3 | 11.2 | 70.8 | 157.0 | 6.5 |
| 2008[4] | 6.7 | * | * | * | * | * | * | 0.2 | 1.2 | 12.3 | 71.2 | 157.4 | 6.6 |
| 2007[4] | 6.7 | * | * | * | * | * | * | 0.1 | 1.2 | 11.7 | 71.5 | 157.0 | 6.5 |
| 2006[4] | 6.6 | * | * | * | * | * | * | 0.2 | 1.2 | 12.0 | 69.5 | 157.6 | 6.5 |
| 2005[4] | 6.6 | * | * | * | * | * | * | 0.2 | 1.4 | 12.8 | 71.1 | 156.0 | 6.6 |
| 2004[4] | 6.1 | * | * | * | * | * | * | 0.2 | 1.2 | 11.9 | 67.4 | 145.1 | 6.2 |
| 2003[4] | 6.2 | * | * | * | * | * | * | 0.2 | 1.3 | 12.6 | 67.6 | 145.8 | 6.3 |
| 2002[4] | 5.9 | * | * | * | * | * | * | 0.1 | 1.2 | 12.1 | 63.8 | 142.2 | 6.0 |
| 2001[4] | 5.8 | * | * | * | * | * | * | 0.1 | 1.2 | 11.7 | 64.5 | 137.0 | 5.9 |
| 2000 | 5.6 | * | * | * | * | * | * | 0.1 | 1.1 | 11.5 | 61.9 | 131.9 | 5.7 |
| 1999 | 5.2 | * | * | * | * | * | * | 0.1 | 1.0 | 11.0 | 58.2 | 124.4 | 5.4 |

See footnotes at end of table.

**Table 9. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 2010: United States, 1999–2010—Con.**

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated as of April 1 for census years and are estimated as of July 1 for all other years; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) and year | All ages[1] | Age group (years) | | | | | | | | | | | Age-adjusted rate[3] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Pneumonitis due to solids and liquids (J69) | | | | | | | | | | | | | |
| 2010 | 5.5 | * | * | * | 0.1 | 0.2 | 0.3 | 1.1 | 2.8 | 8.6 | 38.2 | 152.3 | 5.1 |
| 2009[4] | 5.2 | * | * | * | 0.1 | 0.2 | 0.4 | 1.1 | 2.8 | 7.7 | 35.7 | 146.7 | 4.9 |
| 2008[4] | 5.5 | * | * | * | 0.1 | 0.2 | 0.4 | 1.1 | 2.7 | 8.2 | 38.5 | 157.8 | 5.2 |
| 2007[4] | 5.6 | * | * | * | 0.1 | 0.2 | 0.4 | 1.0 | 2.7 | 8.8 | 39.6 | 167.7 | 5.4 |
| 2006[4] | 5.7 | * | * | * | 0.1 | 0.2 | 0.4 | 1.0 | 2.7 | 9.1 | 40.4 | 169.6 | 5.5 |
| 2005[4] | 5.8 | * | * | * | 0.1 | 0.2 | 0.4 | 1.1 | 2.7 | 9.2 | 42.5 | 178.0 | 5.8 |
| 2004[4] | 5.7 | * | * | * | 0.1 | 0.2 | 0.4 | 0.9 | 2.5 | 9.5 | 42.8 | 176.3 | 5.7 |
| 2003[4] | 6.0 | * | * | * | 0.1 | 0.2 | 0.4 | 1.0 | 2.8 | 9.5 | 44.9 | 186.0 | 6.0 |
| 2002[4] | 6.1 | * | * | * | 0.1 | 0.2 | 0.4 | 0.9 | 2.5 | 9.8 | 46.2 | 195.5 | 6.2 |
| 2001[4] | 6.1 | * | * | * | 0.1 | 0.2 | 0.4 | 1.0 | 2.6 | 10.0 | 45.7 | 193.4 | 6.2 |
| 2000 | 5.9 | * | * | * | 0.1 | 0.2 | 0.4 | 1.0 | 2.5 | 10.3 | 44.5 | 187.6 | 6.1 |
| 1999 | 5.5 | * | * | * | 0.1 | 0.2 | 0.4 | 0.8 | 2.5 | 9.5 | 41.1 | 175.6 | 5.6 |

* Figure does not meet standards of reliability or precision, see Technical Notes.

. . . Category not applicable.

[1]Figures for age not stated included in "All ages" but not distributed among age groups.

[2]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical Notes.

[3]For method of computation, see Technical Notes.

[4]Rates are revised using updated intercensal population estimates and may differ from rates previously published; see Technical Notes.

[5]Figures include September 11, 2001 related deaths for which death certificates were filed as of October 24, 2002; see Technical Notes from "Deaths: Final Data for 2001."

**Table 10. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010**

[The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages | Age group (years) | | | | | | | | | | | Not stated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| All causes | 2,468,435 | 24,586 | 4,316 | 5,279 | 29,551 | 42,259 | 70,033 | 183,207 | 310,802 | 407,151 | 625,651 | 765,474 | 126 |
| Salmonella infections (A01–A02) | 28 | 1 | – | – | – | – | 1 | 4 | 4 | 3 | 10 | 5 | – |
| Shigellosis and amebiasis (A03,A06) | 3 | – | – | – | 1 | 1 | – | – | – | – | 1 | – | – |
| Certain other intestinal infections (A04,A07–A09) | 10,276 | 322 | 20 | 12 | 16 | 26 | 61 | 264 | 635 | 1,400 | 3,267 | 4,253 | – |
| Tuberculosis (A16–A19) | 569 | – | 1 | 3 | 6 | 14 | 26 | 66 | 107 | 111 | 126 | 108 | 1 |
| Respiratory tuberculosis (A16) | 423 | – | – | 2 | 5 | 10 | 16 | 47 | 80 | 83 | 92 | 88 | – |
| Other tuberculosis (A17–A19) | 146 | – | 1 | 1 | 1 | 4 | 10 | 19 | 27 | 28 | 34 | 20 | 1 |
| Whooping cough (A37) | 26 | 25 | – | – | – | – | – | – | 1 | – | – | – | – |
| Scarlet fever and erysipelas (A38,A46) | 3 | – | – | – | 1 | – | – | – | 1 | – | – | 1 | – |
| Meningococcal infection (A39) | 79 | 11 | 10 | 4 | 16 | 6 | 8 | 9 | 7 | 1 | 4 | 3 | – |
| Septicemia (A40–A41) | 34,812 | 215 | 62 | 67 | 141 | 312 | 767 | 2,333 | 4,604 | 6,545 | 9,931 | 9,834 | 1 |
| Syphilis (A50–A53) | 28 | 2 | – | – | – | – | 1 | – | 7 | 8 | 6 | 4 | – |
| Acute poliomyelitis (A80) | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | 9 | – | 1 | 1 | – | – | – | 3 | 1 | 2 | – | 1 | – |
| Measles (B05) | 2 | – | – | – | – | 1 | – | 1 | – | – | – | – | – |
| Viral hepatitis (B15–B19) | 7,564 | 1 | – | 1 | 8 | 51 | 342 | 2,376 | 3,218 | 879 | 510 | 178 | – |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 8,369 | – | 2 | 3 | 147 | 741 | 1,898 | 3,123 | 1,822 | 486 | 124 | 23 | – |
| Malaria (B50–B54) | 10 | – | – | – | – | 3 | – | – | 4 | 2 | 1 | – | – |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36,A42–A44,A48–A49, A54–A79,A81–A82,A85.0–A85.1,A85.8,A86–B04, B06–B09,B25–B49,B55–B99) | 5,805 | 119 | 67 | 48 | 69 | 115 | 216 | 460 | 956 | 1,149 | 1,444 | 1,162 | – |
| Malignant neoplasms (C00–C97) | 574,743 | 62 | 346 | 916 | 1,604 | 3,619 | 11,809 | 50,211 | 109,501 | 144,635 | 157,025 | 95,010 | 5 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 8,474 | – | 1 | 1 | 31 | 43 | 231 | 1,157 | 2,214 | 2,007 | 1,721 | 1,068 | – |
| Malignant neoplasm of esophagus (C15) | 14,490 | – | – | – | 2 | 32 | 222 | 1,483 | 3,683 | 3,953 | 3,517 | 1,598 | – |
| Malignant neoplasm of stomach (C16) | 11,390 | – | – | 1 | 22 | 136 | 433 | 1,180 | 2,075 | 2,590 | 2,901 | 2,052 | – |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 52,622 | – | – | 4 | 54 | 312 | 1,345 | 5,052 | 9,453 | 11,459 | 13,846 | 11,096 | 1 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 20,305 | 4 | 19 | 20 | 31 | 90 | 315 | 2,493 | 5,819 | 4,814 | 4,569 | 2,130 | 1 |
| Malignant neoplasm of pancreas (C25) | 36,888 | – | – | 3 | 8 | 64 | 468 | 2,869 | 7,382 | 9,658 | 10,452 | 5,984 | – |
| Malignant neoplasm of larynx (C32) | 3,691 | – | – | – | 1 | 6 | 41 | 413 | 955 | 1,068 | 855 | 352 | – |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 158,318 | – | – | 7 | 31 | 162 | 1,351 | 12,093 | 31,147 | 48,606 | 46,658 | 18,262 | 1 |
| Malignant melanoma of skin (C43) | 9,154 | – | – | 2 | 40 | 169 | 447 | 1,115 | 1,911 | 2,063 | 2,165 | 1,242 | – |
| Malignant neoplasm of breast (C50) | 41,435 | – | – | 1 | 7 | 323 | 2,045 | 5,915 | 9,104 | 8,710 | 8,385 | 6,945 | – |
| Malignant neoplasm of cervix uteri (C53) | 3,939 | – | – | – | 12 | 191 | 531 | 989 | 916 | 606 | 438 | 256 | – |
| Malignant neoplasms of corpus uteri and uterus, part unspecified (C54–C55) | 8,402 | – | – | – | 3 | 31 | 166 | 679 | 1,892 | 2,323 | 2,035 | 1,273 | – |
| Malignant neoplasm of ovary (C56) | 14,572 | – | – | 2 | 22 | 97 | 345 | 1,510 | 3,104 | 3,724 | 3,722 | 2,046 | – |
| Malignant neoplasm of prostate (C61) | 28,561 | – | – | – | 2 | 1 | 20 | 493 | 2,555 | 5,866 | 10,135 | 9,488 | 1 |
| Malignant neoplasms of kidney and renal pelvis (C64–C65) | 13,219 | – | 16 | 30 | 30 | 41 | 246 | 1,262 | 2,778 | 3,418 | 3,348 | 2,050 | – |
| Malignant neoplasm of bladder (C67) | 14,731 | – | – | – | – | 17 | 90 | 602 | 1,731 | 3,019 | 5,027 | 4,244 | 1 |

See footnotes at end of table.

**Table 10. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages | Age group (years) | | | | | | | | | | | Not stated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Malignant neoplasms of meninges, brain and other parts of central nervous system (C70–C72) | 14,164 | 13 | 101 | 296 | 206 | 366 | 782 | 1,987 | 3,347 | 3,305 | 2,711 | 1,050 | – |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81–C96) | 55,590 | 28 | 115 | 286 | 533 | 771 | 1,261 | 3,439 | 8,002 | 12,789 | 17,069 | 11,297 | – |
| Hodgkin's disease (C81) | 1,231 | – | – | 3 | 48 | 119 | 122 | 124 | 203 | 220 | 259 | 133 | – |
| Non-Hodgkin's lymphoma (C82–C85) | 20,294 | 2 | 3 | 30 | 103 | 204 | 429 | 1,316 | 2,912 | 4,621 | 6,223 | 4,451 | – |
| Leukemia (C91–C95) | 22,569 | 25 | 112 | 253 | 376 | 439 | 608 | 1,377 | 2,973 | 4,914 | 6,883 | 4,609 | – |
| Multiple myeloma and immunoproliferative neoplasms (C88,C90) | 11,428 | – | – | – | 4 | 8 | 101 | 619 | 1,898 | 3,027 | 3,686 | 2,085 | – |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96) | 68 | 1 | – | – | 2 | 1 | 1 | 3 | 16 | 7 | 18 | 19 | – |
| All other and unspecified malignant neoplasms (C17,C23–C24,C26–C31,C37–C41, C44–C49,C51–C52,C57–C60,C62–C63,C66,C68–C69, C73–C80,C97) | 64,798 | 17 | 94 | 263 | 569 | 767 | 1,470 | 5,480 | 11,433 | 14,657 | 17,471 | 12,577 | – |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00–D48) | 14,917 | 48 | 59 | 82 | 93 | 163 | 279 | 751 | 1,438 | 2,580 | 4,710 | 4,714 | – |
| Anemias (D50–D64) | 4,852 | 15 | 29 | 26 | 109 | 142 | 178 | 264 | 369 | 524 | 1,091 | 2,104 | 1 |
| Diabetes mellitus (E10–E14) | 69,071 | 3 | 4 | 26 | 165 | 606 | 1,789 | 5,610 | 11,677 | 14,687 | 18,822 | 15,682 | – |
| Nutritional deficiencies (E40–E64) | 2,948 | 3 | 6 | 2 | 7 | 18 | 37 | 106 | 240 | 380 | 803 | 1,346 | – |
| Malnutrition (E40–E46) | 2,790 | 2 | 3 | – | 7 | 17 | 36 | 98 | 231 | 366 | 772 | 1,258 | – |
| Other nutritional deficiencies (E50–E64) | 158 | 1 | 3 | 2 | – | 1 | 1 | 8 | 9 | 14 | 31 | 88 | – |
| Meningitis (G00,G03) | 608 | 58 | 22 | 11 | 22 | 33 | 53 | 97 | 115 | 67 | 83 | 47 | – |
| Parkinson's disease (G20–G21) | 22,032 | – | – | – | 3 | 5 | 7 | 80 | 489 | 2,567 | 9,769 | 9,112 | – |
| Alzheimer's disease (G30) | 83,494 | – | – | – | – | – | 7 | 121 | 750 | 4,291 | 24,099 | 54,226 | – |
| Major cardiovascular diseases (I00–I78) | 780,213 | 468 | 213 | 282 | 1,286 | 4,012 | 13,313 | 45,149 | 83,886 | 114,483 | 205,180 | 311,910 | 31 |
| Diseases of heart (I00–I09,I11,I13,I20–I51) | 597,689 | 329 | 159 | 185 | 1,028 | 3,222 | 10,594 | 36,729 | 68,077 | 88,851 | 153,080 | 235,407 | 28 |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09) | 2,987 | 1 | 2 | 3 | 12 | 25 | 56 | 163 | 342 | 534 | 852 | 997 | – |
| Hypertensive heart disease (I11) | 33,678 | – | – | 2 | 47 | 371 | 1,358 | 4,097 | 5,369 | 4,567 | 6,330 | 11,529 | 8 |
| Hypertensive heart and renal disease (I13) | 2,807 | – | – | – | 1 | 19 | 84 | 193 | 311 | 330 | 702 | 1,167 | – |
| Ischemic heart diseases (I20–I25) | 379,559 | 20 | 5 | 9 | 113 | 1,023 | 5,330 | 23,008 | 46,291 | 60,934 | 100,056 | 142,754 | 16 |
| Acute myocardial infarction (I21–I22) | 122,071 | 14 | 2 | 4 | 61 | 353 | 2,053 | 8,862 | 17,680 | 22,219 | 32,058 | 38,763 | 2 |
| Other acute ischemic heart diseases (I24) | 4,170 | 2 | – | – | 4 | 21 | 94 | 383 | 657 | 709 | 995 | 1,305 | – |
| Other forms of chronic ischemic heart disease (I20,I25) | 253,318 | 4 | 3 | 5 | 48 | 649 | 3,183 | 13,763 | 27,954 | 38,006 | 67,003 | 102,686 | 14 |
| Atherosclerotic cardiovascular disease, so described (I25.0) | 57,438 | – | – | – | 12 | 257 | 1,345 | 5,949 | 10,711 | 9,917 | 12,458 | 16,781 | 8 |
| All other forms of chronic ischemic heart disease (I20,I25.1–I25.9) | 195,880 | 4 | 3 | 5 | 36 | 392 | 1,838 | 7,814 | 17,243 | 28,089 | 54,545 | 85,905 | 6 |
| Other heart diseases (I26–I51) | 178,658 | 308 | 152 | 171 | 855 | 1,784 | 3,766 | 9,268 | 15,764 | 22,486 | 45,140 | 78,960 | 4 |
| Acute and subacute endocarditis (I33) | 1,103 | 1 | 2 | – | 15 | 37 | 61 | 149 | 217 | 235 | 256 | 130 | – |
| Diseases of pericardium and acute myocarditis (I30–I31,I40) | 776 | 25 | 18 | 7 | 36 | 48 | 58 | 95 | 120 | 97 | 147 | 125 | – |
| Heart failure (I50) | 57,757 | 26 | 13 | 9 | 42 | 107 | 298 | 1,116 | 2,912 | 5,864 | 15,094 | 32,274 | 2 |

See footnotes at end of table.

**Table 10. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages | Age group (years) | | | | | | | | | | | Not stated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| All other forms of heart disease (I26–I28, I34–I38,I42–I49,I51) | 119,022 | 256 | 119 | 155 | 762 | 1,592 | 3,349 | 7,908 | 12,515 | 16,290 | 29,643 | 46,431 | 2 |
| Essential hypertension and hypertensive renal disease (I10,I12,I15) | 26,634 | 3 | 1 | 2 | 21 | 110 | 394 | 1,384 | 2,672 | 3,636 | 6,763 | 11,648 | – |
| Cerebrovascular diseases (I60–I69) | 129,476 | 130 | 50 | 90 | 190 | 517 | 1,904 | 5,910 | 10,693 | 17,736 | 37,659 | 54,595 | 2 |
| Atherosclerosis (I70) | 7,230 | 2 | – | – | 2 | 6 | 23 | 126 | 366 | 741 | 1,802 | 4,162 | – |
| Other diseases of circulatory system (I71–I78) | 19,184 | 4 | 3 | 5 | 45 | 157 | 398 | 1,000 | 2,078 | 3,519 | 5,876 | 6,098 | 1 |
| Aortic aneurysm and dissection (I71) | 10,431 | – | – | 3 | 38 | 110 | 311 | 621 | 1,219 | 2,049 | 3,390 | 2,690 | – |
| Other diseases of arteries, arterioles and capillaries (I72–I78) | 8,753 | 4 | 3 | 2 | 7 | 47 | 87 | 379 | 859 | 1,470 | 2,486 | 3,408 | 1 |
| Other disorders of circulatory system (I80–I99) | 4,241 | 39 | 3 | 2 | 48 | 140 | 327 | 634 | 687 | 600 | 822 | 938 | 1 |
| Influenza and pneumonia (J09–J18) | 50,097 | 195 | 91 | 71 | 181 | 385 | 773 | 1,926 | 3,627 | 6,066 | 13,369 | 23,411 | 2 |
| Influenza (J09–J11) | 500 | 16 | 13 | 12 | 31 | 44 | 53 | 103 | 84 | 39 | 44 | 61 | – |
| Pneumonia (J12–J18) | 49,597 | 179 | 78 | 59 | 150 | 341 | 720 | 1,823 | 3,543 | 6,027 | 13,325 | 23,350 | 2 |
| Other acute lower respiratory infections (J20–J22,U04) | 213 | 28 | 12 | 4 | 3 | 2 | 10 | 21 | 17 | 14 | 31 | 71 | – |
| Acute bronchitis and bronchiolitis (J20–J21) | 177 | 27 | 12 | 4 | 3 | 2 | 10 | 19 | 15 | 12 | 21 | 52 | – |
| Other and unspecified acute lower respiratory infections (J22,U04) | 36 | 1 | – | – | – | – | – | 2 | 2 | 2 | 10 | 19 | – |
| Chronic lower respiratory diseases (J40–J47) | 138,080 | 37 | 51 | 133 | 149 | 272 | 709 | 4,452 | 14,242 | 31,777 | 48,309 | 37,945 | 4 |
| Bronchitis, chronic and unspecified (J40–J42) | 620 | 25 | 16 | 5 | 6 | 8 | 8 | 22 | 52 | 92 | 127 | 259 | – |
| Emphysema (J43) | 10,034 | 1 | – | 1 | 2 | 9 | 44 | 411 | 1,264 | 2,650 | 3,556 | 2,095 | 1 |
| Asthma (J45–J46) | 3,404 | 6 | 31 | 119 | 132 | 210 | 303 | 571 | 513 | 374 | 498 | 647 | – |
| Other chronic lower respiratory diseases (J44,J47) | 124,022 | 5 | 4 | 8 | 9 | 45 | 354 | 3,448 | 12,413 | 28,661 | 44,128 | 34,944 | 3 |
| Pneumoconioses and chemical effects (J60–J66,J68) | 845 | – | 1 | – | – | 1 | 2 | 19 | 47 | 155 | 364 | 256 | – |
| Pneumonitis due to solids and liquids (J69) | 17,011 | 18 | 13 | 9 | 42 | 69 | 142 | 487 | 1,005 | 1,869 | 4,990 | 8,367 | – |
| Other diseases of respiratory system (J00–J06,J30–J39,J67,J70–J98) | 31,187 | 296 | 114 | 68 | 134 | 239 | 468 | 1,455 | 3,268 | 6,267 | 10,067 | 8,811 | – |
| Peptic ulcer (K25–K28) | 2,977 | – | – | 1 | 4 | 23 | 58 | 241 | 420 | 495 | 809 | 925 | 1 |
| Diseases of appendix (K35–K38) | 415 | 7 | 2 | 6 | 9 | 8 | 13 | 35 | 57 | 68 | 101 | 109 | – |
| Hernia (K40–K46) | 1,832 | 27 | 5 | 3 | 7 | 4 | 30 | 112 | 191 | 274 | 496 | 683 | – |
| Chronic liver disease and cirrhosis (K70,K73–K74) | 31,903 | 3 | 2 | 3 | 34 | 487 | 2,423 | 8,651 | 9,764 | 5,720 | 3,620 | 1,195 | 1 |
| Alcoholic liver disease (K70) | 15,990 | – | – | – | 24 | 378 | 1,769 | 5,465 | 5,257 | 2,209 | 762 | 125 | 1 |
| Other chronic liver disease and cirrhosis (K73–K74) | 15,913 | 3 | 2 | 3 | 10 | 109 | 654 | 3,186 | 4,507 | 3,511 | 2,858 | 1,070 | – |
| Cholelithiasis and other disorders of gallbladder (K80–K82) | 3,332 | – | – | – | 7 | 15 | 51 | 102 | 288 | 505 | 942 | 1,421 | 1 |
| Nephritis, nephrotic syndrome and nephrosis (N00–N07,N17–N19,N25–N27) | 50,476 | 105 | 13 | 22 | 68 | 243 | 726 | 2,222 | 5,082 | 8,541 | 15,118 | 18,335 | 1 |
| Acute and rapidly progressive nephritic and nephrotic syndrome (N00–N01,N04) | 203 | 5 | 3 | 2 | – | 5 | 8 | 10 | 13 | 32 | 67 | 58 | – |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02–N03,N05–N07,N26) | 5,894 | – | – | 4 | 3 | 17 | 48 | 154 | 367 | 681 | 1,652 | 2,968 | – |
| Renal failure (N17–N19) | 44,362 | 100 | 10 | 16 | 65 | 220 | 668 | 2,057 | 4,698 | 7,824 | 13,395 | 15,308 | 1 |
| Other disorders of kidney (N25,N27) | 17 | – | – | – | – | 1 | 2 | 1 | 4 | 4 | 4 | 1 | – |
| Infections of kidney (N10–N12,N13.6,N15.1) | 608 | 7 | 2 | 2 | 9 | 6 | 20 | 60 | 63 | 97 | 145 | 197 | – |
| Hyperplasia of prostate (N40) | 489 | – | – | – | – | – | 1 | 3 | 13 | 44 | 140 | 288 | – |

See footnotes at end of table.

**Table 10. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | | All ages | Age group (years) | | | | | | | | | | | Not stated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Under 1 year | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Inflammatory diseases of female pelvic organs | (N70–N76) | 137 | – | – | – | 3 | 2 | 6 | 10 | 17 | 26 | 40 | 33 | – |
| Pregnancy, childbirth and the puerperium | (O00–O99) | 825 | . . . | . . . | 1 | 163 | 367 | 223 | 64 | 6 | 1 | – | – | – |
| Pregnancy with abortive outcome | (O00–O07) | 37 | . . . | . . . | – | 7 | 16 | 13 | 1 | – | – | – | – | – |
| Other complications of pregnancy, childbirth and the puerperium | (O10–O99) | 788 | . . . | . . . | 1 | 156 | 351 | 210 | 63 | 6 | 1 | – | – | – |
| Certain conditions originating in the perinatal period | (P00–P96) | 12,128 | 12,008 | 52 | 25 | 13 | 9 | 11 | 4 | 2 | 2 | 1 | – | 1 |
| Congenital malformations, deformations and chromosomal abnormalities | (Q00–Q99) | 9,673 | 5,107 | 507 | 298 | 412 | 397 | 449 | 680 | 774 | 396 | 351 | 302 | – |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified | (R00–R99) | 38,360 | 3,052 | 243 | 100 | 510 | 888 | 1,225 | 2,204 | 2,548 | 3,105 | 6,827 | 17,631 | 27 |
| All other diseases | (residual) | 269,844 | 753 | 482 | 779 | 1,872 | 3,297 | 6,576 | 16,727 | 26,186 | 32,793 | 65,182 | 115,192 | 5 |
| Accidents (unintentional injuries) | (V01–X59,Y85–Y86) | 120,859 | 1,110 | 1,394 | 1,643 | 12,341 | 14,573 | 14,792 | 19,667 | 14,023 | 9,407 | 13,853 | 18,040 | 16 |
| Transport accidents | (V01–V99,Y85) | 37,961 | 81 | 469 | 956 | 7,549 | 6,090 | 5,124 | 5,955 | 4,806 | 2,942 | 2,620 | 1,366 | 3 |
| Motor vehicle accidents | (V02–V04,V09.0,V09.2, V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86,V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 35,332 | 79 | 449 | 890 | 7,250 | 5,746 | 4,745 | 5,392 | 4,335 | 2,676 | 2,458 | 1,309 | 3 |
| Other land transport accidents | (V01,V05–V06,V09.1, V09.3–V09.9,V10–V11,V15–V18,V19.3,V19.8–V19.9, V80.0–V80.2,V80.6–V80.9,V81.2–V81.9,V82.2–V82.9, V87.9,V88.9,V89.1,V89.3,V89.9) | 1,029 | 2 | 17 | 30 | 154 | 134 | 149 | 208 | 156 | 89 | 63 | 27 | – |
| Water, air and space, and other and unspecified transport accidents and their sequelae | (V90–V99,Y85) | 1,600 | – | 3 | 36 | 145 | 210 | 230 | 355 | 315 | 177 | 99 | 30 | – |
| Nontransport accidents | (W00–X59,Y86) | 82,898 | 1,029 | 925 | 687 | 4,792 | 8,483 | 9,668 | 13,712 | 9,217 | 6,465 | 11,233 | 16,674 | 13 |
| Falls | (W00–W19) | 26,009 | 10 | 24 | 28 | 211 | 299 | 493 | 1,283 | 2,011 | 2,988 | 7,249 | 11,412 | 1 |
| Accidental discharge of firearms | (W32–W34) | 606 | – | 25 | 37 | 145 | 107 | 91 | 89 | 50 | 38 | 19 | 5 | – |
| Accidental drowning and submersion | (W65–W74) | 3,782 | 39 | 436 | 251 | 656 | 476 | 409 | 578 | 417 | 276 | 171 | 70 | 3 |
| Accidental exposure to smoke, fire and flames | (X00–X09) | 2,782 | 21 | 147 | 135 | 127 | 155 | 231 | 446 | 468 | 398 | 400 | 253 | 1 |
| Accidental poisoning and exposure to noxious substances | (X40–X49) | 33,041 | 6 | 34 | 54 | 3,183 | 6,767 | 7,476 | 9,662 | 4,451 | 837 | 338 | 227 | 6 |
| Other and unspecified nontransport accidents and their sequelae | (W20–W31,W35–W64,W75–W99, X10–X39,X50–X59,Y86) | 16,678 | 953 | 259 | 182 | 470 | 679 | 968 | 1,654 | 1,820 | 1,928 | 3,056 | 4,707 | 2 |
| Intentional self-harm (suicide) | (*U03,X60–X84,Y87.0) | 38,364 | . . . | . . . | 274 | 4,600 | 5,735 | 6,571 | 8,799 | 6,384 | 2,974 | 2,052 | 968 | 7 |
| Intentional self-harm (suicide) by discharge of firearms | (X72–X74) | 19,392 | . . . | . . . | 81 | 2,046 | 2,594 | 2,914 | 4,092 | 3,387 | 2,053 | 1,544 | 679 | 2 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae | (*U03,X60–X71,X75–X84,Y87.0) | 18,972 | . . . | . . . | 193 | 2,554 | 3,141 | 3,657 | 4,707 | 2,997 | 921 | 508 | 289 | 5 |
| Assault (homicide) | (*U01–*U02,X85–Y09,Y87.1) | 16,259 | 311 | 385 | 261 | 4,678 | 4,258 | 2,473 | 1,997 | 1,065 | 452 | 250 | 112 | 17 |
| Assault (homicide) by discharge of firearms | (*U01.4,X93–X95) | 11,078 | 11 | 43 | 165 | 3,889 | 3,331 | 1,673 | 1,097 | 533 | 207 | 90 | 34 | 5 |

See footnotes at end of table.

**Table 10. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages | Age group (years) | | | | | | | | | | | Not stated |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over | |
| Assault (homicide) by other and unspecified means and their sequelae . . . . . (*U01.0–*U01.3,*U01.5–*U01.9,*U02, X85–X92,X96–Y09,Y87.1) | 5,181 | 300 | 342 | 96 | 789 | 927 | 800 | 900 | 532 | 245 | 160 | 78 | 12 |
| Legal intervention . . . . . (Y35,Y89.0) | 412 | – | 1 | 1 | 74 | 102 | 108 | 70 | 46 | 9 | 1 | – | – |
| Events of undetermined intent. . . . . (Y10–Y34,Y87.2,Y89.9) | 4,908 | 108 | 82 | 67 | 456 | 806 | 932 | 1,295 | 726 | 195 | 136 | 102 | 3 |
| Discharge of firearms, undetermined intent. . . . . (Y22–Y24) | 252 | – | 3 | 14 | 53 | 54 | 26 | 44 | 33 | 10 | 10 | 5 | – |
| Other and unspecified events of undetermined intent and their sequelae . . . . . .(Y10–Y21,Y25–Y34,Y87.2,Y89.9) | 4,656 | 108 | 79 | 53 | 403 | 752 | 906 | 1,251 | 693 | 185 | 126 | 97 | 3 |
| Operations of war and their sequelae . . . . . (Y36,Y89.1) | 9 | – | – | – | – | 2 | – | – | 4 | – | – | 3 | – |
| Complications of medical and surgical care. . . . . (Y40–Y84,Y88) | 2,490 | 22 | 19 | 22 | 40 | 61 | 122 | 242 | 418 | 499 | 629 | 416 | – |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[1] | 7,298 | 2 | – | 4 | 6 | 6 | 27 | 149 | 426 | 1,063 | 2,462 | 3,153 | – |
| Drug-induced deaths[2,3]. . . . . | 40,393 | 23 | 43 | 63 | 3,667 | 7,864 | 8,923 | 11,935 | 5,911 | 1,137 | 520 | 303 | 4 |
| Alcohol-induced deaths[2,4] . . . . . | 25,692 | 1 | – | – | 152 | 899 | 3,076 | 8,612 | 7,986 | 3,420 | 1,250 | 291 | 5 |
| Injury by firearms[2,5]. . . . . | 31,672 | 11 | 71 | 298 | 6,201 | 6,172 | 4,790 | 5,380 | 4,039 | 2,316 | 1,664 | 723 | 7 |

– Quantity zero.

. . . Category not applicable.

[1]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes, see Technical Notes.

[2]Included in selected categories above.

[3]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[4]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[5]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 11. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages[1] | Age group (years) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over |
| All causes | 799.5 | 623.4 | 26.5 | 12.9 | 67.7 | 102.9 | 170.5 | 407.1 | 851.9 | 1,875.1 | 4,790.2 | 13,934.3 |
| Salmonella infections (A01–A02) | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Shigellosis and amebiasis (A03,A06) | * | * | * | * | * | * | * | * | * | * | * | * |
| Certain other intestinal infections (A04,A07–A09) | 3.3 | 8.2 | 0.1 | * | * | 0.1 | 0.1 | 0.6 | 1.7 | 6.4 | 25.0 | 77.4 |
| Tuberculosis (A16–A19) | 0.2 | * | * | * | * | * | 0.1 | 0.1 | 0.3 | 0.5 | 1.0 | 2.0 |
| Respiratory tuberculosis (A16) | 0.1 | * | * | * | * | * | * | 0.1 | 0.2 | 0.4 | 0.7 | 1.6 |
| Other tuberculosis (A17–A19) | 0.0 | * | * | * | * | * | * | * | 0.1 | 0.1 | 0.3 | 0.4 |
| Whooping cough (A37) | 0.0 | 0.6 | * | * | * | * | * | * | * | * | * | * |
| Scarlet fever and erysipelas (A38,A46) | * | * | * | * | * | * | * | * | * | * | * | * |
| Meningococcal infection (A39) | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Septicemia (A40–A41) | 11.3 | 5.5 | 0.4 | 0.2 | 0.3 | 0.8 | 1.9 | 5.2 | 12.6 | 30.1 | 76.0 | 179.0 |
| Syphilis (A50–A53) | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Acute poliomyelitis (A80) | * | * | * | * | * | * | * | * | * | * | * | * |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | * | * | * | * | * | * | * | * | * | * | * | * |
| Measles (B05) | * | * | * | * | * | * | * | * | * | * | * | * |
| Viral hepatitis (B15–B19) | 2.4 | * | * | * | * | 0.1 | 0.8 | 5.3 | 8.8 | 4.0 | 3.9 | 3.2 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 2.7 | * | * | * | 0.3 | 1.8 | 4.6 | 6.9 | 5.0 | 2.2 | 0.9 | 0.4 |
| Malaria (B50–B54) | * | * | * | * | * | * | * | * | * | * | * | * |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36,A42–A44,A48–A49, A54–A79,A81–A82,A85.0–A85.1,A85.8,A86–B04, B06–B09,B25–B49,B55–B99) | 1.9 | 3.0 | 0.4 | 0.1 | 0.2 | 0.3 | 0.5 | 1.0 | 2.6 | 5.3 | 11.1 | 21.2 |
| Malignant neoplasms (C00–C97) | 186.2 | 1.6 | 2.1 | 2.2 | 3.7 | 8.8 | 28.8 | 111.6 | 300.1 | 666.1 | 1,202.2 | 1,729.5 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 2.7 | * | * | * | 0.1 | 0.1 | 0.6 | 2.6 | 6.1 | 9.2 | 13.2 | 19.4 |
| Malignant neoplasm of esophagus (C15) | 4.7 | * | * | * | * | 0.1 | 0.5 | 3.3 | 10.1 | 18.2 | 26.9 | 29.1 |
| Malignant neoplasm of stomach (C16) | 3.7 | * | * | * | 0.1 | 0.3 | 1.1 | 2.6 | 5.7 | 11.9 | 22.2 | 37.4 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 17.0 | * | * | * | 0.1 | 0.8 | 3.3 | 11.2 | 25.9 | 52.8 | 106.0 | 202.0 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 6.6 | * | * | 0.0 | 0.1 | 0.2 | 0.8 | 5.5 | 16.0 | 22.2 | 35.0 | 38.8 |
| Malignant neoplasm of pancreas (C25) | 11.9 | * | * | * | * | 0.2 | 1.1 | 6.4 | 20.2 | 44.5 | 80.0 | 108.9 |
| Malignant neoplasm of larynx (C32) | 1.2 | * | * | * | * | * | 0.1 | 0.9 | 2.6 | 4.9 | 6.5 | 6.4 |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 51.3 | * | * | * | 0.1 | 0.4 | 3.3 | 26.9 | 85.4 | 223.9 | 357.2 | 332.4 |
| Malignant melanoma of skin (C43) | 3.0 | * | * | * | 0.1 | 0.4 | 1.1 | 2.5 | 5.2 | 9.5 | 16.6 | 22.6 |
| Malignant neoplasm of breast (C50) | 13.4 | * | * | * | * | 0.8 | 5.0 | 13.1 | 25.0 | 40.1 | 64.2 | 126.4 |
| Malignant neoplasm of cervix uteri (C53) | 1.3 | * | * | * | * | 0.5 | 1.3 | 2.2 | 2.5 | 2.8 | 3.4 | 4.7 |
| Malignant neoplasms of corpus uteri and uterus, part unspecified (C54–C55) | 2.7 | * | * | * | * | 0.1 | 0.4 | 1.5 | 5.2 | 10.7 | 15.6 | 23.2 |
| Malignant neoplasm of ovary (C56) | 4.7 | * | * | * | 0.1 | 0.2 | 0.8 | 3.4 | 8.5 | 17.2 | 28.5 | 37.2 |
| Malignant neoplasm of prostate (C61) | 9.3 | * | * | * | * | * | 0.0 | 1.1 | 7.0 | 27.0 | 77.6 | 172.7 |
| Malignant neoplasms of kidney and renal pelvis (C64–C65) | 4.3 | * | * | 0.1 | 0.1 | 0.1 | 0.6 | 2.8 | 7.6 | 15.7 | 25.6 | 37.3 |
| Malignant neoplasm of bladder (C67) | 4.8 | * | * | * | * | * | 0.2 | 1.3 | 4.7 | 13.9 | 38.5 | 77.3 |

See footnotes at end of table.

**Table 11. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages[1] | Age group (years) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over |
| Malignant neoplasms of meninges, brain and other parts of central nervous system (C70–C72) | 4.6 | * | 0.6 | 0.7 | 0.5 | 0.9 | 1.9 | 4.4 | 9.2 | 15.2 | 20.8 | 19.1 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81–C96) | 18.0 | 0.7 | 0.7 | 0.7 | 1.2 | 1.9 | 3.1 | 7.6 | 21.9 | 58.9 | 130.7 | 205.6 |
| Hodgkin's disease (C81) | 0.4 | * | * | * | 0.1 | 0.3 | 0.3 | 0.3 | 0.6 | 1.0 | 2.0 | 2.4 |
| Non-Hodgkin's lymphoma (C82–C85) | 6.6 | * | * | 0.1 | 0.2 | 0.5 | 1.0 | 2.9 | 8.0 | 21.3 | 47.6 | 81.0 |
| Leukemia (C91–C95) | 7.3 | 0.6 | 0.7 | 0.6 | 0.9 | 1.1 | 1.5 | 3.1 | 8.1 | 22.6 | 52.7 | 83.9 |
| Multiple myeloma and immunoproliferative neoplasms (C88,C90) | 3.7 | * | * | * | * | * | 0.2 | 1.4 | 5.2 | 13.9 | 28.2 | 38.0 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96) | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| All other and unspecified malignant neoplasms (C17,C23–C24,C26–C31,C37–C41,C44–C49, C51–C52,C57–C60,C62–C63,C66,C68–C69,C73–C80,C97) | 21.0 | * | 0.6 | 0.6 | 1.3 | 1.9 | 3.6 | 12.2 | 31.3 | 67.5 | 133.8 | 228.9 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00–D48) | 4.8 | 1.2 | 0.4 | 0.2 | 0.2 | 0.4 | 0.7 | 1.7 | 3.9 | 11.9 | 36.1 | 85.8 |
| Anemias (D50–D64) | 1.6 | * | 0.2 | 0.1 | 0.2 | 0.3 | 0.4 | 0.6 | 1.0 | 2.4 | 8.4 | 38.3 |
| Diabetes mellitus (E10–E14) | 22.4 | * | * | 0.1 | 0.4 | 1.5 | 4.4 | 12.5 | 32.0 | 67.6 | 144.1 | 285.5 |
| Nutritional deficiencies (E40–E64) | 1.0 | * | * | * | * | * | 0.1 | 0.2 | 0.7 | 1.8 | 6.1 | 24.5 |
| Malnutrition (E40–E46) | 0.9 | * | * | * | * | * | 0.1 | 0.2 | 0.6 | 1.7 | 5.9 | 22.9 |
| Other nutritional deficiencies (E50–E64) | 0.1 | * | * | * | * | * | * | * | * | * | 0.2 | 1.6 |
| Meningitis (G00,G03) | 0.2 | 1.5 | 0.1 | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.6 | 0.9 |
| Parkinson's disease (G20–G21) | 7.1 | * | * | * | * | * | * | 0.2 | 1.3 | 11.8 | 74.8 | 165.9 |
| Alzheimer's disease (G30) | 27.0 | * | * | * | * | * | * | 0.3 | 2.1 | 19.8 | 184.5 | 987.1 |
| Major cardiovascular diseases (I00–I78) | 252.7 | 11.9 | 1.3 | 0.7 | 2.9 | 9.8 | 32.4 | 100.3 | 229.9 | 527.2 | 1,570.9 | 5,677.9 |
| Diseases of heart (I00–I09,I11,I13,I20–I51) | 193.6 | 8.3 | 1.0 | 0.5 | 2.4 | 7.8 | 25.8 | 81.6 | 186.6 | 409.2 | 1,172.0 | 4,285.2 |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09) | 1.0 | * | * | * | * | 0.1 | 0.1 | 0.4 | 0.9 | 2.5 | 6.5 | 18.1 |
| Hypertensive heart disease (I11) | 10.9 | * | * | * | 0.1 | 0.9 | 3.3 | 9.1 | 14.7 | 21.0 | 48.5 | 209.9 |
| Hypertensive heart and renal disease (I13) | 0.9 | * | * | * | * | * | 0.2 | 0.4 | 0.9 | 1.5 | 5.4 | 21.2 |
| Ischemic heart diseases (I20–I25) | 122.9 | 0.5 | * | * | 0.3 | 2.5 | 13.0 | 51.1 | 126.9 | 280.6 | 766.1 | 2,598.6 |
| Acute myocardial infarction (I21–I22) | 39.5 | * | * | * | 0.1 | 0.9 | 5.0 | 19.7 | 48.5 | 102.3 | 245.4 | 705.6 |
| Other acute ischemic heart diseases (I24) | 1.4 | * | * | * | * | 0.1 | 0.2 | 0.9 | 1.8 | 3.3 | 7.6 | 23.8 |
| Other forms of chronic ischemic heart disease (I20,I25) | 82.0 | * | * | * | 0.1 | 1.6 | 7.8 | 30.6 | 76.6 | 175.0 | 513.0 | 1,869.3 |
| Atherosclerotic cardiovascular disease, so described (I25.0) | 18.6 | * | * | * | * | 0.6 | 3.3 | 13.2 | 29.4 | 45.7 | 95.4 | 305.5 |
| All other forms of chronic ischemic heart disease (I20,I25.1–I25.9) | 63.4 | * | * | * | 0.1 | 1.0 | 4.5 | 17.4 | 47.3 | 129.4 | 417.6 | 1,563.8 |
| Other heart diseases (I26–I51) | 57.9 | 7.8 | 0.9 | 0.4 | 2.0 | 4.3 | 9.2 | 20.6 | 43.2 | 103.6 | 345.6 | 1,437.4 |
| Acute and subacute endocarditis (I33) | 0.4 | * | * | * | * | 0.1 | 0.1 | 0.3 | 0.6 | 1.1 | 2.0 | 2.4 |

See footnotes at end of table.

**Table 11. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages[1] | Age group (years) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over |
| Diseases of pericardium and acute myocarditis (I30–I31,I40) | 0.3 | 0.6 | * | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.4 | 1.1 | 2.3 |
| Heart failure (I50) | 18.7 | 0.7 | * | * | 0.1 | 0.3 | 0.7 | 2.5 | 8.0 | 27.0 | 115.6 | 587.5 |
| All other forms of heart disease (I26–I28,I34–I38,I42–I49,I51) | 38.6 | 6.5 | 0.7 | 0.4 | 1.7 | 3.9 | 8.2 | 17.6 | 34.3 | 75.0 | 227.0 | 845.2 |
| Essential hypertension and hypertensive renal disease (I10,I12,I15) | 8.6 | * | * | * | 0.0 | 0.3 | 1.0 | 3.1 | 7.3 | 16.7 | 51.8 | 212.0 |
| Cerebrovascular diseases (I60–I69) | 41.9 | 3.3 | 0.3 | 0.2 | 0.4 | 1.3 | 4.6 | 13.1 | 29.3 | 81.7 | 288.3 | 993.8 |
| Atherosclerosis (I70) | 2.3 | * | * | * | * | * | 0.1 | 0.3 | 1.0 | 3.4 | 13.8 | 75.8 |
| Other diseases of circulatory system (I71–I78) | 6.2 | * | * | * | 0.1 | 0.4 | 1.0 | 2.2 | 5.7 | 16.2 | 45.0 | 111.0 |
| Aortic aneurysm and dissection (I71) | 3.4 | * | * | * | 0.1 | 0.3 | 0.8 | 1.4 | 3.3 | 9.4 | 26.0 | 49.0 |
| Other diseases of arteries, arterioles and capillaries (I72–I78) | 2.8 | * | * | * | * | 0.1 | 0.2 | 0.8 | 2.4 | 6.8 | 19.0 | 62.0 |
| Other disorders of circulatory system (I80–I99) | 1.4 | 1.0 | * | * | 0.1 | 0.3 | 0.8 | 1.4 | 1.9 | 2.8 | 6.3 | 17.1 |
| Influenza and pneumonia (J09–J18) | 16.2 | 4.9 | 0.6 | 0.2 | 0.4 | 0.9 | 1.9 | 4.3 | 9.9 | 27.9 | 102.4 | 426.2 |
| Influenza (J09–J11) | 0.2 | * | * | * | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 1.1 |
| Pneumonia (J12–J18) | 16.1 | 4.5 | 0.5 | 0.1 | 0.3 | 0.8 | 1.8 | 4.1 | 9.7 | 27.8 | 102.0 | 425.1 |
| Other acute lower respiratory infections (J20–J22,U04) | 0.1 | 0.7 | * | * | * | * | * | 0.0 | * | * | 0.2 | 1.3 |
| Acute bronchitis and bronchiolitis (J20–J21) | 0.1 | 0.7 | * | * | * | * | * | * | * | * | 0.2 | 0.9 |
| Other and unspecified acute lower respiratory infections (J22,U04) | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Chronic lower respiratory diseases (J40–J47) | 44.7 | 0.9 | 0.3 | 0.3 | 0.3 | 0.7 | 1.7 | 9.9 | 39.0 | 146.3 | 369.9 | 690.7 |
| Bronchitis, chronic and unspecified (J40–J42) | 0.2 | 0.6 | * | * | * | * | * | 0.0 | 0.1 | 0.4 | 1.0 | 4.7 |
| Emphysema (J43) | 3.2 | * | * | * | * | * | 0.1 | 0.9 | 3.5 | 12.2 | 27.2 | 38.1 |
| Asthma (J45–J46) | 1.1 | * | 0.2 | 0.3 | 0.3 | 0.5 | 0.7 | 1.3 | 1.4 | 1.7 | 3.8 | 11.8 |
| Other chronic lower respiratory diseases (J44,J47) | 40.2 | * | * | * | * | 0.1 | 0.9 | 7.7 | 34.0 | 132.0 | 337.9 | 636.1 |
| Pneumoconioses and chemical effects (J60–J66,J68) | 0.3 | * | * | * | * | * | * | * | 0.1 | 0.7 | 2.8 | 4.7 |
| Pneumonitis due to solids and liquids (J69) | 5.5 | * | * | * | 0.1 | 0.2 | 0.3 | 1.1 | 2.8 | 8.6 | 38.2 | 152.3 |
| Other diseases of respiratory system (J00–J06,J30–J39,J67,J70–J98) | 10.1 | 7.5 | 0.7 | 0.2 | 0.3 | 0.6 | 1.1 | 3.2 | 9.0 | 28.9 | 77.1 | 160.4 |
| Peptic ulcer (K25–K28) | 1.0 | * | * | * | * | 0.1 | 0.1 | 0.5 | 1.2 | 2.3 | 6.2 | 16.8 |
| Diseases of appendix (K35–K38) | 0.1 | * | * | * | * | * | * | 0.1 | 0.2 | 0.3 | 0.8 | 2.0 |
| Hernia (K40–K46) | 0.6 | 0.7 | * | * | * | * | 0.1 | 0.2 | 0.5 | 1.3 | 3.8 | 12.4 |
| Chronic liver disease and cirrhosis (K70,K73–K74) | 10.3 | * | * | * | 0.1 | 1.2 | 5.9 | 19.2 | 26.8 | 26.3 | 27.7 | 21.8 |
| Alcoholic liver disease (K70) | 5.2 | * | * | * | 0.1 | 0.9 | 4.3 | 12.1 | 14.4 | 10.2 | 5.8 | 2.3 |
| Other chronic liver disease and cirrhosis (K73–K74) | 5.2 | * | * | * | * | 0.3 | 1.6 | 7.1 | 12.4 | 16.2 | 21.9 | 19.5 |
| Cholelithiasis and other disorders of gallbladder (K80–K82) | 1.1 | * | * | * | * | * | 0.1 | 0.2 | 0.8 | 2.3 | 7.2 | 25.9 |
| Nephritis, nephrotic syndrome and nephrosis (N00–N07,N17–N19,N25–N27) | 16.3 | 2.7 | * | 0.1 | 0.2 | 0.6 | 1.8 | 4.9 | 13.9 | 39.3 | 115.7 | 333.8 |
| Acute and rapidly progressive nephritic and nephrotic syndrome (N00–N01,N04) | 0.1 | * | * | * | * | * | * | * | * | 0.1 | 0.5 | 1.1 |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02–N03,N05–N07,N26) | 1.9 | * | * | * | * | * | 0.1 | 0.3 | 1.0 | 3.1 | 12.6 | 54.0 |
| Renal failure (N17–N19) | 14.4 | 2.5 | * | * | 0.1 | 0.5 | 1.6 | 4.6 | 12.9 | 36.0 | 102.6 | 278.7 |

See footnotes at end of table.

**Table 11. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages[1] | Age group (years) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over |
| Other disorders of kidney . . . . . (N25,N27) | * | * | * | * | * | * | * | * | * | * | * | * |
| Infections of kidney . . . . . (N10–N12,N13.6,N15.1) | 0.2 | * | * | * | * | * | 0.0 | 0.1 | 0.2 | 0.4 | 1.1 | 3.6 |
| Hyperplasia of prostate . . . . . (N40) | 0.2 | * | * | * | * | * | * | * | * | 0.2 | 1.1 | 5.2 |
| Inflammatory diseases of female pelvic organs . . . . . (N70–N76) | 0.0 | * | * | * | * | * | * | * | * | 0.1 | 0.3 | 0.6 |
| Pregnancy, childbirth and the puerperium . . . . . (O00–O99) | 0.3 | . . . | . . . | * | 0.4 | 0.9 | 0.5 | 0.1 | * | * | * | * |
| Pregnancy with abortive outcome . . . . . (O00–O07) | 0.0 | . . . | . . . | * | * | * | * | * | * | * | * | * |
| Other complications of pregnancy, childbirth and the uerperium . . . . . (O10–O99) | 0.3 | . . . | . . . | * | 0.4 | 0.9 | 0.5 | 0.1 | * | * | * | * |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 3.9 | 304.5 | 0.3 | 0.1 | * | * | * | * | * | * | * | * |
| Congenital malformations, deformations and chromosomal abnormalities . . . . . (Q00–Q99) | 3.1 | 129.5 | 3.1 | 0.7 | 0.9 | 1.0 | 1.1 | 1.5 | 2.1 | 1.8 | 2.7 | 5.5 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99) | 12.4 | 77.4 | 1.5 | 0.2 | 1.2 | 2.2 | 3.0 | 4.9 | 7.0 | 14.3 | 52.3 | 320.9 |
| All other diseases . . . . . (residual) | 87.4 | 19.1 | 3.0 | 1.9 | 4.3 | 8.0 | 16.0 | 37.2 | 71.8 | 151.0 | 499.1 | 2,096.9 |
| Accidents (unintentional injuries) . . . . . (V01–X59,Y85–Y86) | 39.1 | 28.1 | 8.6 | 4.0 | 28.3 | 35.5 | 36.0 | 43.7 | 38.4 | 43.3 | 106.1 | 328.4 |
| Transport accidents . . . . . (V01–V99,Y85) | 12.3 | 2.1 | 2.9 | 2.3 | 17.3 | 14.8 | 12.5 | 13.2 | 13.2 | 13.5 | 20.1 | 24.9 |
| Motor vehicle accidents . . . . . (V02–V04,V09.0,V09.2, V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 11.4 | 2.0 | 2.8 | 2.2 | 16.6 | 14.0 | 11.6 | 12.0 | 11.9 | 12.3 | 18.8 | 23.8 |
| Other land transport accidents . . . . . (V01,V05–V06, V09.1,V09.3–V09.9,V10–V11,V15–V18,V19.3, V19.8–V19.9,V80.0–V80.2,V80.6–V80.9,V81.2–V81.9, V82.2–V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) | 0.3 | * | * | 0.1 | 0.4 | 0.3 | 0.4 | 0.5 | 0.4 | 0.4 | 0.5 | 0.5 |
| Water, air and space, and other and unspecified transport accidents and their sequelae . . . . . (V90–V99,Y85) | 0.5 | * | * | 0.1 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 0.8 | 0.8 | 0.5 |
| Nontransport accidents . . . . . (W00–X59,Y86) | 26.8 | 26.1 | 5.7 | 1.7 | 11.0 | 20.7 | 23.5 | 30.5 | 25.3 | 29.8 | 86.0 | 303.5 |
| Falls . . . . . (W00–W19) | 8.4 | * | 0.1 | 0.1 | 0.5 | 0.7 | 1.2 | 2.9 | 5.5 | 13.8 | 55.5 | 207.7 |
| Accidental discharge of firearms . . . . . (W32–W34) | 0.2 | * | 0.2 | 0.1 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 0.2 | * | * |
| Accidental drowning and submersion . . . . . (W65–W74) | 1.2 | 1.0 | 2.7 | 0.6 | 1.5 | 1.2 | 1.0 | 1.3 | 1.1 | 1.3 | 1.3 | 1.3 |
| Accidental exposure to smoke, fire and flames . . . . . (X00–X09) | 0.9 | 0.5 | 0.9 | 0.3 | 0.3 | 0.4 | 0.6 | 1.0 | 1.3 | 1.8 | 3.1 | 4.6 |
| Accidental poisoning and exposure to noxious substances . . . . . (X40–X49) | 10.7 | * | 0.2 | 0.1 | 7.3 | 16.5 | 18.2 | 21.5 | 12.2 | 3.9 | 2.6 | 4.1 |
| Other and unspecified nontransport accidents and their sequelae . . . . . (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 5.4 | 24.2 | 1.6 | 0.4 | 1.1 | 1.7 | 2.4 | 3.7 | 5.0 | 8.9 | 23.4 | 85.7 |
| Intentional self-harm (suicide) . . . . . (*U03,X60–X84,Y87.0) | 12.4 | . . . | . . . | 0.7 | 10.5 | 14.0 | 16.0 | 19.6 | 17.5 | 13.7 | 15.7 | 17.6 |
| Intentional self-harm (suicide) by discharge of firearms . . . (X72–X74) | 6.3 | . . . | . . . | 0.2 | 4.7 | 6.3 | 7.1 | 9.1 | 9.3 | 9.5 | 11.8 | 12.4 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae . . . . . (*U03,X60–X71,X75–X84,Y87.0) | 6.1 | . . . | . . . | 0.5 | 5.9 | 7.6 | 8.9 | 10.5 | 8.2 | 4.2 | 3.9 | 5.3 |

See footnotes at end of table.

**Table 11. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by age: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All ages[1] | Age group (years) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year[2] | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over |
| Assault (homicide) (*U01–*U02,X85–Y09,Y87.1) | 5.3 | 7.9 | 2.4 | 0.6 | 10.7 | 10.4 | 6.0 | 4.4 | 2.9 | 2.1 | 1.9 | 2.0 |
| Assault (homicide) by discharge of firearms (*U01.4,X93–X95) | 3.6 | * | 0.3 | 0.4 | 8.9 | 8.1 | 4.1 | 2.4 | 1.5 | 1.0 | 0.7 | 0.6 |
| Assault (homicide) by other and unspecified means and their sequelae (*U01.0–*U01.3,*U01.5–*U01.9, *U02,X85–X92,X96–Y09,Y87.1) | 1.7 | 7.6 | 2.1 | 0.2 | 1.8 | 2.3 | 1.9 | 2.0 | 1.5 | 1.1 | 1.2 | 1.4 |
| Legal intervention (Y35,Y89.0) | 0.1 | * | * | * | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | * | * | * |
| Events of undetermined intent (Y10–Y34,Y87.2,Y89.9) | 1.6 | 2.7 | 0.5 | 0.2 | 1.0 | 2.0 | 2.3 | 2.9 | 2.0 | 0.9 | 1.0 | 1.9 |
| Discharge of firearms, undetermined intent (Y22–Y24) | 0.1 | * | * | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * | * |
| Other and unspecified events of undetermined intent and their sequelae (Y10–Y21,Y25–Y34,Y87.2,Y89.9) | 1.5 | 2.7 | 0.5 | 0.1 | 0.9 | 1.8 | 2.2 | 2.8 | 1.9 | 0.9 | 1.0 | 1.8 |
| Operations of war and their sequelae (Y36,Y89.1) | * | * | * | * | * | * | * | * | * | * | * | * |
| Complications of medical and surgical care (Y40–Y84,Y88) | 0.8 | 0.6 | * | 0.1 | 0.1 | 0.1 | 0.3 | 0.5 | 1.1 | 2.3 | 4.8 | 7.6 |
| Enterocolitis due to *Clostridium difficile* (A04.7)[3] | 2.4 | * | * | * | * | * | 0.1 | 0.3 | 1.2 | 4.9 | 18.8 | 57.4 |
| Drug-induced deaths[4,5] | 13.1 | 0.6 | 0.3 | 0.2 | 8.4 | 19.2 | 21.7 | 26.5 | 16.2 | 5.2 | 4.0 | 5.5 |
| Alcohol-induced deaths[4,6] | 8.3 | * | * | * | 0.3 | 2.2 | 7.5 | 19.1 | 21.9 | 15.8 | 9.6 | 5.3 |
| Injury by firearms[4,7] | 10.3 | * | 0.4 | 0.7 | 14.2 | 15.0 | 11.7 | 12.0 | 11.1 | 10.7 | 12.7 | 13.2 |

0.0 Quantity more than zero but less than 0.05.

* Figure does not meet standards of reliability or precision; see Technical Notes.

. . . Category not applicable.

[1]Figures for age not stated included in "All ages" but not distributed among age groups.

[2]Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical Notes.

[3]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes, see Technical Notes.

[4]Included in selected categories above.

[5]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[6]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 12. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010**

[Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All causes | 2,468,435 | 1,232,432 | 1,236,003 | 2,114,749 | 1,051,514 | 1,063,235 | 286,959 | 145,802 | 141,157 | 15,565 | 8,516 | 7,049 | 51,162 | 26,600 | 24,562 |
| Salmonella infections (A01–A02) | 28 | 17 | 11 | 19 | 14 | 5 | 5 | 1 | 4 | – | – | – | 4 | 2 | 2 |
| Shigellosis and amebiasis (A03,A06) | 3 | 1 | 2 | 1 | 1 | – | 1 | – | 1 | – | – | – | 1 | – | 1 |
| Certain other intestinal infections (A04,A07–A09) | 10,276 | 4,046 | 6,230 | 9,248 | 3,582 | 5,666 | 827 | 370 | 457 | 62 | 30 | 32 | 139 | 64 | 75 |
| Tuberculosis (A16–A19) | 569 | 351 | 218 | 338 | 200 | 138 | 120 | 86 | 34 | 15 | 6 | 9 | 96 | 59 | 37 |
| Respiratory tuberculosis (A16) | 423 | 276 | 147 | 239 | 146 | 93 | 94 | 74 | 20 | 12 | 5 | 7 | 78 | 51 | 27 |
| Other tuberculosis (A17–A19) | 146 | 75 | 71 | 99 | 54 | 45 | 26 | 12 | 14 | 3 | 1 | 2 | 18 | 8 | 10 |
| Whooping cough (A37) | 26 | 13 | 13 | 24 | 11 | 13 | 2 | 2 | – | – | – | – | – | – | – |
| Scarlet fever and erysipelas (A38,A46) | 3 | 1 | 2 | 2 | 1 | 1 | – | – | – | – | – | – | 1 | – | 1 |
| Meningococcal infection (A39) | 79 | 40 | 39 | 67 | 34 | 33 | 9 | 5 | 4 | – | – | – | 3 | 1 | 2 |
| Septicemia (A40–A41) | 34,812 | 16,069 | 18,743 | 27,985 | 12,976 | 15,009 | 6,001 | 2,691 | 3,310 | 244 | 106 | 138 | 582 | 296 | 286 |
| Syphilis (A50–A53) | 28 | 20 | 8 | 15 | 12 | 3 | 12 | 8 | 4 | – | – | – | 1 | – | 1 |
| Acute poliomyelitis (A80) | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | 9 | 4 | 5 | 8 | 3 | 5 | – | – | – | – | – | – | 1 | 1 | – |
| Measles (B05) | 2 | 2 | – | 1 | 1 | – | – | – | – | 1 | 1 | – | – | – | – |
| Viral hepatitis (B15–B19) | 7,564 | 5,038 | 2,526 | 6,061 | 4,097 | 1,964 | 1,101 | 707 | 394 | 99 | 63 | 36 | 303 | 171 | 132 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 8,369 | 6,099 | 2,270 | 3,575 | 2,951 | 624 | 4,662 | 3,047 | 1,615 | 61 | 48 | 13 | 71 | 53 | 18 |
| Malaria (B50–B54) | 10 | 7 | 3 | 2 | 1 | 1 | 6 | 5 | 1 | – | – | – | 2 | 1 | 1 |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36, A42–A44,A48–A49,A54–A79,A81–A82,A85.0–A85.1, A85.8,A86–B04,B06–B09,B25–B49,B55–B99) | 5,805 | 2,970 | 2,835 | 4,802 | 2,439 | 2,363 | 777 | 407 | 370 | 53 | 28 | 25 | 173 | 96 | 77 |
| Malignant neoplasms (C00–C97) | 574,743 | 301,037 | 273,706 | 491,686 | 258,272 | 233,414 | 65,930 | 33,967 | 31,963 | 2,962 | 1,588 | 1,374 | 14,165 | 7,210 | 6,955 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 8,474 | 5,815 | 2,659 | 7,151 | 4,885 | 2,266 | 1,006 | 727 | 279 | 41 | 25 | 16 | 276 | 178 | 98 |
| Malignant neoplasm of esophagus (C15) | 14,490 | 11,416 | 3,074 | 12,761 | 10,148 | 2,613 | 1,437 | 1,044 | 393 | 63 | 49 | 14 | 229 | 175 | 54 |
| Malignant neoplasm of stomach (C16) | 11,390 | 6,703 | 4,687 | 8,524 | 5,023 | 3,501 | 2,000 | 1,180 | 820 | 87 | 57 | 30 | 779 | 443 | 336 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 52,622 | 27,284 | 25,338 | 43,854 | 22,765 | 21,089 | 7,005 | 3,618 | 3,387 | 287 | 152 | 135 | 1,476 | 749 | 727 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 20,305 | 13,658 | 6,647 | 15,949 | 10,627 | 5,322 | 2,826 | 1,986 | 840 | 196 | 143 | 53 | 1,334 | 902 | 432 |
| Malignant neoplasm of pancreas (C25) | 36,888 | 18,699 | 18,189 | 31,413 | 16,064 | 15,349 | 4,327 | 2,096 | 2,231 | 177 | 97 | 80 | 971 | 442 | 529 |
| Malignant neoplasm of larynx (C32) | 3,691 | 2,951 | 740 | 3,007 | 2,410 | 597 | 613 | 480 | 133 | 25 | 20 | 5 | 46 | 41 | 5 |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 158,318 | 87,740 | 70,578 | 137,698 | 75,675 | 62,023 | 16,688 | 9,793 | 6,895 | 785 | 445 | 340 | 3,147 | 1,827 | 1,320 |
| Malignant melanoma of skin (C43) | 9,154 | 6,002 | 3,152 | 8,944 | 5,905 | 3,039 | 135 | 62 | 73 | 22 | 12 | 10 | 53 | 23 | 30 |
| Malignant neoplasm of breast (C50) | 41,435 | 439 | 40,996 | 34,183 | 349 | 33,834 | 6,109 | 78 | 6,031 | 172 | 2 | 170 | 971 | 10 | 961 |
| Malignant neoplasm of cervix uteri (C53) | 3,939 | . . . | 3,939 | 2,970 | . . . | 2,970 | 790 | . . . | 790 | 36 | . . . | 36 | 143 | . . . | 143 |
| Malignant neoplasms of corpus uteri and uterus, part unspecified (C54–C55) | 8,402 | . . . | 8,402 | 6,688 | . . . | 6,688 | 1,437 | . . . | 1,437 | 36 | . . . | 36 | 241 | . . . | 241 |

See footnotes at end of table.

**Table 12. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Malignant neoplasm of ovary . . . . . (C56) | 14,572 | . . . | 14,572 | 12,841 | . . . | 12,841 | 1,279 | . . . | 1,279 | 73 | . . . | 73 | 379 | . . . | 379 |
| Malignant neoplasm of prostate . . . . . (C61) | 28,561 | 28,561 | . . . | 23,172 | 23,172 | . . . | 4,854 | 4,854 | . . . | 117 | 117 | . . . | 418 | 418 | . . . |
| Malignant neoplasms of kidney and renal pelvis . . . . . (C64–C65) | 13,219 | 8,436 | 4,783 | 11,659 | 7,474 | 4,185 | 1,185 | 708 | 477 | 110 | 74 | 36 | 265 | 180 | 85 |
| Malignant neoplasm of bladder. . . . . (C67) | 14,731 | 10,429 | 4,302 | 13,404 | 9,647 | 3,757 | 1,073 | 615 | 458 | 47 | 31 | 16 | 207 | 136 | 71 |
| Malignant neoplasms of meninges, brain and other parts of central nervous system . . . . . (C70–C72) | 14,164 | 7,977 | 6,187 | 12,876 | 7,305 | 5,571 | 896 | 466 | 430 | 73 | 38 | 35 | 319 | 168 | 151 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue . . . . . (C81–C96) | 55,590 | 30,777 | 24,813 | 48,584 | 27,084 | 21,500 | 5,450 | 2,824 | 2,626 | 230 | 129 | 101 | 1,326 | 740 | 586 |
| Hodgkin's disease . . . . . (C81) | 1,231 | 714 | 517 | 1,087 | 633 | 454 | 114 | 60 | 54 | 5 | 3 | 2 | 25 | 18 | 7 |
| Non-Hodgkin's lymphoma. . . . . (C82–C85) | 20,294 | 11,047 | 9,247 | 18,198 | 9,907 | 8,291 | 1,509 | 825 | 684 | 70 | 41 | 29 | 517 | 274 | 243 |
| Leukemia . . . . . (C91–C95) | 22,569 | 12,851 | 9,718 | 20,088 | 11,524 | 8,564 | 1,816 | 957 | 859 | 107 | 59 | 48 | 558 | 311 | 247 |
| Multiple myeloma and immunoproliferative neoplasms. . . . . (C88,C90) | 11,428 | 6,117 | 5,311 | 9,154 | 4,979 | 4,175 | 2,003 | 978 | 1,025 | 48 | 26 | 22 | 223 | 134 | 89 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue . . . (C96) | 68 | 48 | 20 | 57 | 41 | 16 | 8 | 4 | 4 | – | – | – | 3 | 3 | – |
| All other and unspecified malignant neoplasms . . . (C17, C23–C24,C26–C31,C37–C41,C44–C49,C51–C52, C57–C60,C62–C63,C66,C68–C69,C73–C80,C97) | 64,798 | 34,150 | 30,648 | 56,008 | 29,739 | 26,269 | 6,820 | 3,436 | 3,384 | 385 | 197 | 188 | 1,585 | 778 | 807 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior. . . . . (D00–D48) | 14,917 | 7,721 | 7,196 | 13,287 | 6,966 | 6,321 | 1,220 | 550 | 670 | 60 | 33 | 27 | 350 | 172 | 178 |
| Anemias . . . . . (D50–D64) | 4,852 | 2,017 | 2,835 | 3,741 | 1,525 | 2,216 | 1,007 | 446 | 561 | 18 | 5 | 13 | 86 | 41 | 45 |
| Diabetes mellitus . . . . . (E10–E14) | 69,071 | 35,490 | 33,581 | 54,250 | 28,486 | 25,764 | 12,126 | 5,640 | 6,486 | 857 | 432 | 425 | 1,838 | 932 | 906 |
| Nutritional deficiencies . . . . . (E40–E64) | 2,948 | 1,141 | 1,807 | 2,503 | 974 | 1,529 | 367 | 134 | 233 | 29 | 9 | 20 | 49 | 24 | 25 |
| Malnutrition . . . . . (E40–E46) | 2,790 | 1,079 | 1,711 | 2,358 | 919 | 1,439 | 357 | 129 | 228 | 28 | 9 | 19 | 47 | 22 | 25 |
| Other nutritional deficiencies . . . . . (E50–E64) | 158 | 62 | 96 | 145 | 55 | 90 | 10 | 5 | 5 | 1 | – | 1 | 2 | 2 | – |
| Meningitis. . . . . (G00,G03) | 608 | 303 | 305 | 442 | 221 | 221 | 138 | 64 | 74 | 7 | 4 | 3 | 21 | 14 | 7 |
| Parkinson's disease. . . . . (G20–G21) | 22,032 | 12,871 | 9,161 | 20,792 | 12,173 | 8,619 | 804 | 452 | 352 | 62 | 40 | 22 | 374 | 206 | 168 |
| Alzheimer's disease. . . . . (G30) | 83,494 | 25,364 | 58,130 | 76,928 | 23,442 | 53,486 | 5,220 | 1,488 | 3,732 | 264 | 89 | 175 | 1,082 | 345 | 737 |
| Major cardiovascular diseases. . . . . (I00–I78) | 780,213 | 383,547 | 396,666 | 667,081 | 327,381 | 339,700 | 92,898 | 45,572 | 47,326 | 3,603 | 1,972 | 1,631 | 16,631 | 8,622 | 8,009 |
| Diseases of heart. . . . . (I00–I09,I11,I13,I20–I51) | 597,689 | 307,384 | 290,305 | 514,323 | 264,425 | 249,898 | 69,083 | 35,089 | 33,994 | 2,793 | 1,608 | 1,185 | 11,490 | 6,262 | 5,228 |
| Acute rheumatic fever and chronic rheumatic heart diseases . . . . . (I00–I09) | 2,987 | 996 | 1,991 | 2,644 | 885 | 1,759 | 232 | 79 | 153 | 14 | 6 | 8 | 97 | 26 | 71 |
| Hypertensive heart disease . . . . . .(I11) | 33,678 | 16,242 | 17,436 | 25,097 | 11,726 | 13,371 | 7,729 | 4,075 | 3,654 | 169 | 100 | 69 | 683 | 341 | 342 |
| Hypertensive heart and renal disease . . . . . (I13) | 2,807 | 1,285 | 1,522 | 1,960 | 864 | 1,096 | 748 | 377 | 371 | 18 | 10 | 8 | 81 | 34 | 47 |
| Ischemic heart diseases . . . . . (I20–I25) | 379,559 | 207,580 | 171,979 | 330,277 | 181,386 | 148,891 | 39,630 | 20,615 | 19,015 | 1,831 | 1,098 | 733 | 7,821 | 4,481 | 3,340 |
| Acute myocardial infarction . . . . . (I21–I22) | 122,071 | 67,435 | 54,636 | 106,204 | 59,181 | 47,023 | 12,743 | 6,445 | 6,298 | 594 | 367 | 227 | 2,530 | 1,442 | 1,088 |
| Other acute ischemic heart diseases . . . . . (I24) | 4,170 | 2,156 | 2,014 | 3,519 | 1,798 | 1,721 | 557 | 303 | 254 | 39 | 24 | 15 | 55 | 31 | 24 |

See footnotes at end of table.

**Table 12. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Other forms of chronic ischemic heart disease . . . . . (I20,I25) | 253,318 | 137,989 | 115,329 | 220,554 | 120,407 | 100,147 | 26,330 | 13,867 | 12,463 | 1,198 | 707 | 491 | 5,236 | 3,008 | 2,228 |
| Atherosclerotic cardiovascular disease, so described . . . . . (I25.0) | 57,438 | 33,703 | 23,735 | 47,470 | 27,790 | 19,680 | 8,361 | 4,930 | 3,431 | 372 | 233 | 139 | 1,235 | 750 | 485 |
| All other forms of chronic ischemic heart disease. . . . . .(I20,I25.1–I25.9) | 195,880 | 104,286 | 91,594 | 173,084 | 92,617 | 80,467 | 17,969 | 8,937 | 9,032 | 826 | 474 | 352 | 4,001 | 2,258 | 1,743 |
| Other heart diseases . . . . . (I26–I51) | 178,658 | 81,281 | 97,377 | 154,345 | 69,564 | 84,781 | 20,744 | 9,943 | 10,801 | 761 | 394 | 367 | 2,808 | 1,380 | 1,428 |
| Acute and subacute endocarditis. . . . . (I33) | 1,103 | 627 | 476 | 889 | 507 | 382 | 183 | 100 | 83 | 11 | 5 | 6 | 20 | 15 | 5 |
| Diseases of pericardium and acute myocarditis . . . . . .(I30–I31,I40) | 776 | 405 | 371 | 617 | 320 | 297 | 126 | 64 | 62 | 10 | 7 | 3 | 23 | 14 | 9 |
| Heart failure . . . . . (I50) | 57,757 | 24,385 | 33,372 | 51,290 | 21,540 | 29,750 | 5,528 | 2,444 | 3,084 | 225 | 91 | 134 | 714 | 310 | 404 |
| All other forms of heart disease . . . . . (I26–I28,I34–I38,I42–I49,I51) | 119,022 | 55,864 | 63,158 | 101,549 | 47,197 | 54,352 | 14,907 | 7,335 | 7,572 | 515 | 291 | 224 | 2,051 | 1,041 | 1,010 |
| Essential hypertension and hypertensive renal disease . . . . . (I10,I12,I15) | 26,634 | 10,846 | 15,788 | 20,560 | 8,229 | 12,331 | 5,116 | 2,218 | 2,898 | 144 | 62 | 82 | 814 | 337 | 477 |
| Cerebrovascular diseases. . . . . (I60–I69) | 129,476 | 52,367 | 77,109 | 109,119 | 43,424 | 65,695 | 15,965 | 6,938 | 9,027 | 559 | 258 | 301 | 3,833 | 1,747 | 2,086 |
| Atherosclerosis . . . . . (I70) | 7,230 | 2,933 | 4,297 | 6,513 | 2,618 | 3,895 | 594 | 254 | 340 | 19 | 5 | 14 | 104 | 56 | 48 |
| Other diseases of circulatory system . . . . . (I71–I78) | 19,184 | 10,017 | 9,167 | 16,566 | 8,685 | 7,881 | 2,140 | 1,073 | 1,067 | 88 | 39 | 49 | 390 | 220 | 170 |
| Aortic aneurysm and dissection . . . . . (I71) | 10,431 | 6,096 | 4,335 | 9,134 | 5,359 | 3,775 | 972 | 552 | 420 | 48 | 26 | 22 | 277 | 159 | 118 |
| Other diseases of arteries, arterioles and capillaries. . . . . (I72–I78) | 8,753 | 3,921 | 4,832 | 7,432 | 3,326 | 4,106 | 1,168 | 521 | 647 | 40 | 13 | 27 | 113 | 61 | 52 |
| Other disorders of circulatory system . . . . . (I80–I99) | 4,241 | 2,053 | 2,188 | 3,377 | 1,616 | 1,761 | 763 | 383 | 380 | 23 | 9 | 14 | 78 | 45 | 33 |
| Influenza and pneumonia . . . . . (J09–J18) | 50,097 | 23,615 | 26,482 | 43,296 | 20,238 | 23,058 | 4,936 | 2,380 | 2,556 | 326 | 172 | 154 | 1,539 | 825 | 714 |
| Influenza. . . . . (J09–J11) | 500 | 250 | 250 | 409 | 205 | 204 | 68 | 32 | 36 | 4 | 2 | 2 | 19 | 11 | 8 |
| Pneumonia . . . . . (J12–J18) | 49,597 | 23,365 | 26,232 | 42,887 | 20,033 | 22,854 | 4,868 | 2,348 | 2,520 | 322 | 170 | 152 | 1,520 | 814 | 706 |
| Other acute lower respiratory infections . . . .(J20–J22,U04) | 213 | 94 | 119 | 182 | 80 | 102 | 22 | 10 | 12 | 2 | 1 | 1 | 7 | 3 | 4 |
| Acute bronchitis and bronchiolitis . . . . . (J20–J21) | 177 | 74 | 103 | 147 | 61 | 86 | 21 | 9 | 12 | 2 | 1 | 1 | 7 | 3 | 4 |
| Other and unspecified acute lower respiratory infections . . . . . (J22,U04) | 36 | 20 | 16 | 35 | 19 | 16 | 1 | 1 | – | – | – | – | – | – | – |
| Chronic lower respiratory diseases . . . . . (J40–J47) | 138,080 | 65,423 | 72,657 | 127,176 | 59,632 | 67,544 | 8,715 | 4,532 | 4,183 | 702 | 349 | 353 | 1,487 | 910 | 577 |
| Bronchitis, chronic and unspecified . . . . . (J40–J42) | 620 | 267 | 353 | 557 | 232 | 325 | 48 | 26 | 22 | 4 | 4 | – | 11 | 5 | 6 |
| Emphysema. . . . . (J43) | 10,034 | 5,227 | 4,807 | 9,294 | 4,764 | 4,530 | 596 | 363 | 233 | 44 | 21 | 23 | 100 | 79 | 21 |
| Asthma. . . . . (J45–J46) | 3,404 | 1,283 | 2,121 | 2,366 | 790 | 1,576 | 879 | 408 | 471 | 23 | 12 | 11 | 136 | 73 | 63 |
| Other chronic lower respiratory diseases . . . . .(J44,J47) | 124,022 | 58,646 | 65,376 | 114,959 | 53,846 | 61,113 | 7,192 | 3,735 | 3,457 | 631 | 312 | 319 | 1,240 | 753 | 487 |
| Pneumoconioses and chemical effects. . . . . (J60–J66,J68) | 845 | 812 | 33 | 803 | 773 | 30 | 36 | 33 | 3 | 4 | 4 | – | 2 | 2 | – |
| Pneumonitis due to solids and liquids . . . . . (J69) | 17,011 | 9,208 | 7,803 | 15,235 | 8,264 | 6,971 | 1,380 | 724 | 656 | 83 | 40 | 43 | 313 | 180 | 133 |
| Other diseases of respiratory system . . . . . (J00–J06, J30–J39,J67,J70–J98) | 31,187 | 15,791 | 15,396 | 27,376 | 13,968 | 13,408 | 2,926 | 1,378 | 1,548 | 238 | 113 | 125 | 647 | 332 | 315 |
| Peptic ulcer . . . . . (K25–K28) | 2,977 | 1,460 | 1,517 | 2,572 | 1,233 | 1,339 | 296 | 172 | 124 | 22 | 8 | 14 | 87 | 47 | 40 |
| Diseases of appendix. . . . . (K35–K38) | 415 | 258 | 157 | 355 | 216 | 139 | 44 | 30 | 14 | 5 | 3 | 2 | 11 | 9 | 2 |

See footnotes at end of table.

**Table 12. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Hernia . . . . . (K40–K46) | 1,832 | 814 | 1,018 | 1,635 | 714 | 921 | 166 | 82 | 84 | 14 | 8 | 6 | 17 | 10 | 7 |
| Chronic liver disease and cirrhosis . . . . . (K70,K73–K74) | 31,903 | 20,798 | 11,105 | 28,014 | 18,352 | 9,662 | 2,635 | 1,715 | 920 | 787 | 429 | 358 | 467 | 302 | 165 |
| Alcoholic liver disease . . . . . (K70) | 15,990 | 11,441 | 4,549 | 13,997 | 10,125 | 3,872 | 1,226 | 822 | 404 | 592 | 351 | 241 | 175 | 143 | 32 |
| Other chronic liver disease and cirrhosis . . . . (K73–K74) | 15,913 | 9,357 | 6,556 | 14,017 | 8,227 | 5,790 | 1,409 | 893 | 516 | 195 | 78 | 117 | 292 | 159 | 133 |
| Cholelithiasis and other disorders of gallbladder . . . . . (K80–K82) | 3,332 | 1,552 | 1,780 | 2,912 | 1,368 | 1,544 | 300 | 121 | 179 | 20 | 11 | 9 | 100 | 52 | 48 |
| Nephritis, nephrotic syndrome and nephrosis . . . . . (N00–N07,N17–N19,N25–N27) | 50,476 | 24,865 | 25,611 | 40,205 | 20,172 | 20,033 | 8,841 | 4,016 | 4,825 | 339 | 153 | 186 | 1,091 | 524 | 567 |
| Acute and rapidly progressive nephritic and nephrotic syndrome . . . . . (N00–N01,N04) | 203 | 97 | 106 | 161 | 75 | 86 | 32 | 18 | 14 | 1 | – | 1 | 9 | 4 | 5 |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified . . . . . (N02–N03,N05–N07,N26) | 5,894 | 2,775 | 3,119 | 4,770 | 2,270 | 2,500 | 948 | 432 | 516 | 41 | 20 | 21 | 135 | 53 | 82 |
| Renal failure . . . . . (N17–N19) | 44,362 | 21,989 | 22,373 | 35,261 | 17,824 | 17,437 | 7,857 | 3,565 | 4,292 | 297 | 133 | 164 | 947 | 467 | 480 |
| Other disorders of kidney . . . . . (N25,N27) | 17 | 4 | 13 | 13 | 3 | 10 | 4 | 1 | 3 | – | – | – | – | – | – |
| Infections of kidney . . . . . (N10–N12,N13.6,N15.1) | 608 | 187 | 421 | 526 | 158 | 368 | 65 | 26 | 39 | 5 | 1 | 4 | 12 | 2 | 10 |
| Hyperplasia of prostate . . . . . (N40) | 489 | 489 | . . . | 444 | 444 | . . . | 37 | 37 | . . . | – | – | . . . | 8 | 8 | . . . |
| Inflammatory diseases of female pelvic organs . . (N70–N76) | 137 | . . . | 137 | 113 | . . . | 113 | 21 | . . . | 21 | 3 | . . . | 3 | – | . . . | – |
| Pregnancy, childbirth and the puerperium . . . . . (O00–O99) | 825 | . . . | 825 | 504 | . . . | 504 | 264 | . . . | 264 | 15 | . . . | 15 | 42 | . . . | 42 |
| Pregnancy with abortive outcome . . . . . (O00–O07) | 37 | . . . | 37 | 19 | . . . | 19 | 18 | . . . | 18 | – | . . . | – | – | . . . | – |
| Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99) | 788 | . . . | 788 | 485 | . . . | 485 | 246 | . . . | 246 | 15 | . . . | 15 | 42 | . . . | 42 |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 12,128 | 6,803 | 5,325 | 7,513 | 4,233 | 3,280 | 4,031 | 2,216 | 1,815 | 117 | 76 | 41 | 467 | 278 | 189 |
| Congenital malformations, deformations and chromosomal abnormalities . . . . . (Q00–Q99) | 9,673 | 4,960 | 4,713 | 7,566 | 3,860 | 3,706 | 1,656 | 872 | 784 | 130 | 71 | 59 | 321 | 157 | 164 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99) | 38,360 | 16,057 | 22,303 | 32,668 | 13,321 | 19,347 | 4,935 | 2,351 | 2,584 | 240 | 129 | 111 | 517 | 256 | 261 |
| All other diseases . . . . . (residual) | 269,844 | 109,547 | 160,297 | 235,449 | 94,966 | 140,483 | 28,532 | 11,902 | 16,630 | 1,549 | 725 | 824 | 4,314 | 1,954 | 2,360 |
| Accidents (unintentional injuries) . . . . (V01–X59,Y85–Y86) | 120,859 | 75,921 | 44,938 | 104,945 | 65,360 | 39,585 | 12,069 | 8,074 | 3,995 | 1,701 | 1,150 | 551 | 2,144 | 1,337 | 807 |
| Transport accidents . . . . . (V01–V99,Y85) | 37,961 | 26,783 | 11,178 | 31,637 | 22,348 | 9,289 | 4,751 | 3,421 | 1,330 | 684 | 462 | 222 | 889 | 552 | 337 |
| Motor vehicle accidents . . . . . (V02–V04,V09.0,V09.2, V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 35,332 | 24,723 | 10,609 | 29,392 | 20,589 | 8,803 | 4,477 | 3,206 | 1,271 | 638 | 425 | 213 | 825 | 503 | 322 |
| Other land transport accidents . . (V01,V05–V06,V09.1, V09.3–V09.9,V10–V11,V15–V18,V19.3,V19.8–V19.9, V80.0–V80.2,V80.6–V80.9,V81.2–V81.9,V82.2–V82.9, V87.9,V88.9,V89.1,V89.3,V89.9) | 1,029 | 794 | 235 | 840 | 647 | 193 | 136 | 106 | 30 | 22 | 19 | 3 | 31 | 22 | 9 |

See footnotes at end of table.

**Table 12. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Water, air and space, and other and unspecified transport accidents and their sequelae (V90–V99,Y85) | 1,600 | 1,266 | 334 | 1,405 | 1,112 | 293 | 138 | 109 | 29 | 24 | 18 | 6 | 33 | 27 | 6 |
| Nontransport accidents (W00–X59,Y86) | 82,898 | 49,138 | 33,760 | 73,308 | 43,012 | 30,296 | 7,318 | 4,653 | 2,665 | 1,017 | 688 | 329 | 1,255 | 785 | 470 |
| Falls (W00–W19) | 26,009 | 13,049 | 12,960 | 24,133 | 11,967 | 12,166 | 1,164 | 669 | 495 | 161 | 97 | 64 | 551 | 316 | 235 |
| Accidental discharge of firearms (W32–W34) | 606 | 515 | 91 | 474 | 396 | 78 | 113 | 101 | 12 | 14 | 14 | – | 5 | 4 | 1 |
| Accidental drowning and submersion (W65–W74) | 3,782 | 2,936 | 846 | 2,970 | 2,267 | 703 | 571 | 478 | 93 | 68 | 60 | 8 | 173 | 131 | 42 |
| Accidental exposure to smoke, fire and flames (X00–X09) | 2,782 | 1,624 | 1,158 | 2,135 | 1,251 | 884 | 577 | 335 | 242 | 45 | 26 | 19 | 25 | 12 | 13 |
| Accidental poisoning and exposure to noxious substances (X40–X49) | 33,041 | 21,117 | 11,924 | 29,283 | 18,717 | 10,566 | 2,988 | 1,896 | 1,092 | 521 | 332 | 189 | 249 | 172 | 77 |
| Other and unspecified nontransport accidents and their sequelae (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 16,678 | 9,897 | 6,781 | 14,313 | 8,414 | 5,899 | 1,905 | 1,174 | 731 | 208 | 159 | 49 | 252 | 150 | 102 |
| Intentional self-harm (suicide) (*U03,X60–X84,Y87.0) | 38,364 | 30,277 | 8,087 | 34,690 | 27,422 | 7,268 | 2,144 | 1,755 | 389 | 469 | 344 | 125 | 1,061 | 756 | 305 |
| Intentional self-harm (suicide) by discharge of firearms (X72–X74) | 19,392 | 16,962 | 2,430 | 17,909 | 15,648 | 2,261 | 1,079 | 965 | 114 | 178 | 146 | 32 | 226 | 203 | 23 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03,X60–X71,X75–X84,Y87.0) | 18,972 | 13,315 | 5,657 | 16,781 | 11,774 | 5,007 | 1,065 | 790 | 275 | 291 | 198 | 93 | 835 | 553 | 282 |
| Assault (homicide) (*U01–*U02,X85–Y09,Y87.1) | 16,259 | 12,774 | 3,485 | 7,863 | 5,648 | 2,215 | 7,818 | 6,704 | 1,114 | 257 | 204 | 53 | 321 | 218 | 103 |
| Assault (homicide) by discharge of firearms (*U01.4,X93–X95) | 11,078 | 9,340 | 1,738 | 4,647 | 3,555 | 1,092 | 6,151 | 5,553 | 598 | 113 | 98 | 15 | 167 | 134 | 33 |
| Assault (homicide) by other and unspecified means and their sequelae (*U01.0–*U01.3,*U01.5–*U01.9, *U02,X85–X92,X96–Y09,Y87.1) | 5,181 | 3,434 | 1,747 | 3,216 | 2,093 | 1,123 | 1,667 | 1,151 | 516 | 144 | 106 | 38 | 154 | 84 | 70 |
| Legal intervention (Y35,Y89.0) | 412 | 399 | 13 | 295 | 287 | 8 | 98 | 96 | 2 | 9 | 6 | 3 | 10 | 10 | – |
| Events of undetermined intent (Y10–Y34,Y87.2,Y89.9) | 4,908 | 2,930 | 1,978 | 4,147 | 2,448 | 1,699 | 594 | 381 | 213 | 87 | 46 | 41 | 80 | 55 | 25 |
| Discharge of firearms, undetermined intent (Y22–Y24) | 252 | 203 | 49 | 210 | 171 | 39 | 32 | 25 | 7 | 7 | 4 | 3 | 3 | 3 | – |
| Other and unspecified events of undetermined intent and their sequelae (Y10–Y21,Y25–Y34,Y87.2,Y89.9) | 4,656 | 2,727 | 1,929 | 3,937 | 2,277 | 1,660 | 562 | 356 | 206 | 80 | 42 | 38 | 77 | 52 | 25 |
| Operations of war and their sequelae (Y36,Y89.1) | 9 | 9 | – | 7 | 7 | – | 1 | 1 | – | – | – | – | 1 | 1 | – |
| Complications of medical and surgical care (Y40–Y84,Y88) | 2,490 | 1,167 | 1,323 | 2,023 | 971 | 1,052 | 401 | 169 | 232 | 21 | 10 | 11 | 45 | 17 | 28 |

See footnotes at end of table.

**Table 12. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[4] | 7,298 | 2,889 | 4,409 | 6,671 | 2,623 | 4,048 | 488 | 203 | 285 | 39 | 20 | 19 | 100 | 43 | 57 |
| Drug-induced deaths[5,6] . . . . . | 40,393 | 24,376 | 16,017 | 36,020 | 21,697 | 14,323 | 3,561 | 2,210 | 1,351 | 458 | 250 | 208 | 354 | 219 | 135 |
| Alcohol-induced deaths[5,7] . . . . . | 25,692 | 19,038 | 6,654 | 22,167 | 16,527 | 5,640 | 2,330 | 1,686 | 644 | 931 | 611 | 320 | 264 | 214 | 50 |
| Injury by firearms[5,8] . . . . . | 31,672 | 27,356 | 4,316 | 23,490 | 20,014 | 3,476 | 7,454 | 6,721 | 733 | 317 | 267 | 50 | 411 | 354 | 57 |

– Quantity zero.

. . . Category not applicable.

[1]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[2]Includes Aleuts and Eskimos.

[3]Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

[4]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes; see Technical Notes.

[5]Included in selected categories above.

[6]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[8]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 13. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearm, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010**

[Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins | | | Hispanic | | | Non-Hispanic[1] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | | Origin not stated[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All causes | 2,468,435 | 1,232,432 | 1,236,003 | 144,490 | 79,622 | 64,868 | 2,318,218 | 1,149,438 | 1,168,780 | 1,969,916 | 971,604 | 998,312 | 283,438 | 143,824 | 139,614 | 5,727 | 3,372 | 2,355 |
| Salmonella infections (A01–A02) | 28 | 17 | 11 | 3 | – | 3 | 25 | 17 | 8 | 16 | 14 | 2 | 5 | 1 | 4 | – | – | – |
| Shigellosis and amebiasis (A03,A06) | 3 | 1 | 2 | – | – | – | 3 | 1 | 2 | 1 | 1 | – | 1 | – | 1 | – | – | – |
| Certain other intestinal infections (A04,A07–A09) | 10,276 | 4,046 | 6,230 | 603 | 269 | 334 | 9,657 | 3,770 | 5,887 | 8,661 | 3,323 | 5,338 | 801 | 357 | 444 | 16 | 7 | 9 |
| Tuberculosis (A16–A19) | 569 | 351 | 218 | 98 | 63 | 35 | 467 | 285 | 182 | 238 | 135 | 103 | 119 | 86 | 33 | 4 | 3 | 1 |
| Respiratory tuberculosis (A16) | 423 | 276 | 147 | 73 | 52 | 21 | 347 | 222 | 125 | 165 | 93 | 72 | 93 | 74 | 19 | 3 | 2 | 1 |
| Other tuberculosis (A17–A19) | 146 | 75 | 71 | 25 | 11 | 14 | 120 | 63 | 57 | 73 | 42 | 31 | 26 | 12 | 14 | 1 | 1 | – |
| Whooping cough (A37) | 26 | 13 | 13 | 11 | 5 | 6 | 15 | 8 | 7 | 13 | 6 | 7 | 2 | 2 | – | – | – | – |
| Scarlet fever and erysipelas (A38,A46) | 3 | 1 | 2 | 1 | 1 | – | 2 | – | 2 | 1 | – | 1 | – | – | – | – | – | – |
| Meningococcal infection (A39) | 79 | 40 | 39 | 22 | 10 | 12 | 57 | 30 | 27 | 46 | 25 | 21 | 8 | 4 | 4 | – | – | – |
| Septicemia (A40–A41) | 34,812 | 16,069 | 18,743 | 2,035 | 1,012 | 1,023 | 32,716 | 15,028 | 17,688 | 25,951 | 11,963 | 13,988 | 5,958 | 2,673 | 3,285 | 61 | 29 | 32 |
| Syphilis (A50–A53) | 28 | 20 | 8 | 3 | 3 | – | 25 | 17 | 8 | 12 | 9 | 3 | 12 | 8 | 4 | – | – | – |
| Acute poliomyelitis (A80) | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | 9 | 4 | 5 | – | – | – | 9 | 4 | 5 | 8 | 3 | 5 | – | – | – | – | – | – |
| Measles (B05) | 2 | 2 | – | 1 | 1 | – | 1 | 1 | – | – | – | – | – | – | – | – | – | – |
| Viral hepatitis (B15–B19) | 7,564 | 5,038 | 2,526 | 1,118 | 766 | 352 | 6,414 | 4,248 | 2,166 | 4,942 | 3,331 | 1,611 | 1,089 | 697 | 392 | 32 | 24 | 8 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 8,369 | 6,099 | 2,270 | 1,134 | 910 | 224 | 7,175 | 5,140 | 2,035 | 2,454 | 2,046 | 408 | 4,598 | 3,000 | 1,598 | 60 | 49 | 11 |
| Malaria (B50–B54) | 10 | 7 | 3 | – | – | – | 10 | 7 | 3 | 2 | 1 | 1 | 6 | 5 | 1 | – | – | – |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36, A42–A44,A48–A49,A54–A79,A81–A82,A85.0–A85.1, A85.8,A86–B04,B06–B09,B25–B49,B55–B99) | 5,805 | 2,970 | 2,835 | 441 | 233 | 208 | 5,353 | 2,732 | 2,621 | 4,359 | 2,205 | 2,154 | 771 | 404 | 367 | 11 | 5 | 6 |
| Malignant neoplasms (C00–C97) | 574,743 | 301,037 | 273,706 | 31,119 | 16,450 | 14,669 | 542,581 | 284,018 | 258,563 | 460,567 | 241,816 | 218,751 | 65,276 | 33,607 | 31,669 | 1,043 | 569 | 474 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 8,474 | 5,815 | 2,659 | 412 | 298 | 114 | 8,035 | 5,497 | 2,538 | 6,728 | 4,580 | 2,148 | 996 | 719 | 277 | 27 | 20 | 7 |
| Malignant neoplasm of esophagus (C15) | 14,490 | 11,416 | 3,074 | 592 | 475 | 117 | 13,870 | 10,919 | 2,951 | 12,161 | 9,665 | 2,496 | 1,424 | 1,037 | 387 | 28 | 22 | 6 |
| Malignant neoplasm of stomach (C16) | 11,390 | 6,703 | 4,687 | 1,554 | 873 | 681 | 9,814 | 5,815 | 3,999 | 6,983 | 4,157 | 2,826 | 1,974 | 1,162 | 812 | 22 | 15 | 7 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 52,622 | 27,284 | 25,338 | 3,179 | 1,782 | 1,397 | 49,358 | 25,455 | 23,903 | 40,686 | 20,990 | 19,696 | 6,946 | 3,584 | 3,362 | 85 | 47 | 38 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 20,305 | 13,658 | 6,647 | 2,331 | 1,584 | 747 | 17,929 | 12,045 | 5,884 | 13,643 | 9,069 | 4,574 | 2,788 | 1,958 | 830 | 45 | 29 | 16 |
| Malignant neoplasm of pancreas (C25) | 36,888 | 18,699 | 18,189 | 2,142 | 1,046 | 1,096 | 34,694 | 17,620 | 17,074 | 29,278 | 15,013 | 14,265 | 4,292 | 2,079 | 2,213 | 52 | 33 | 19 |
| Malignant neoplasm of larynx (C32) | 3,691 | 2,951 | 740 | 211 | 188 | 23 | 3,469 | 2,753 | 716 | 2,793 | 2,219 | 574 | 605 | 473 | 132 | 11 | 10 | 1 |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 158,318 | 87,740 | 70,578 | 4,953 | 3,046 | 1,907 | 153,042 | 84,519 | 68,523 | 132,658 | 72,584 | 60,074 | 16,536 | 9,711 | 6,825 | 323 | 175 | 148 |
| Malignant melanoma of skin (C43) | 9,154 | 6,002 | 3,152 | 216 | 125 | 91 | 8,926 | 5,870 | 3,056 | 8,721 | 5,775 | 2,946 | 134 | 61 | 73 | 12 | 7 | 5 |
| Malignant neoplasm of breast (C50) | 41,435 | 439 | 40,996 | 2,312 | 17 | 2,295 | 39,044 | 421 | 38,623 | 31,868 | 333 | 31,535 | 6,063 | 77 | 5,986 | 79 | 1 | 78 |
| Malignant neoplasm of cervix uteri (C53) | 3,939 | . . . | 3,939 | 476 | . . . | 476 | 3,456 | . . . | 3,456 | 2,506 | . . . | 2,506 | 776 | . . . | 776 | 7 | . . . | 7 |

See footnotes at end of table.

**Table 13. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearm, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins | | | Hispanic | | | Non-Hispanic[1] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | | Origin not stated[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Malignant neoplasms of corpus uteri and uterus, part unspecified (C54–C55) | 8,402 | . . . | 8,402 | 528 | . . . | 528 | 7,853 | . . . | 7,853 | 6,162 | . . . | 6,162 | 1,421 | . . . | 1,421 | 21 | . . . | 21 |
| Malignant neoplasm of ovary (C56) | 14,572 | . . . | 14,572 | 848 | . . . | 848 | 13,691 | . . . | 13,691 | 11,984 | . . . | 11,984 | 1,264 | . . . | 1,264 | 33 | . . . | 33 |
| Malignant neoplasm of prostate (C61) | 28,561 | 28,561 | . . . | 1,535 | 1,535 | . . . | 26,973 | 26,973 | . . . | 21,657 | 21,657 | . . . | 4,801 | 4,801 | . . . | 53 | 53 | . . . |
| Malignant neoplasms of kidney and renal pelvis (C64–C65) | 13,219 | 8,436 | 4,783 | 944 | 588 | 356 | 12,255 | 7,832 | 4,423 | 10,713 | 6,882 | 3,831 | 1,175 | 702 | 473 | 20 | 16 | 4 |
| Malignant neoplasm of bladder (C67) | 14,731 | 10,429 | 4,302 | 519 | 352 | 167 | 14,187 | 10,063 | 4,124 | 12,877 | 9,289 | 3,588 | 1,065 | 610 | 455 | 25 | 14 | 11 |
| Malignant neoplasms of meninges, brain and other parts of central nervous system (C70–C72) | 14,164 | 7,977 | 6,187 | 884 | 514 | 370 | 13,269 | 7,456 | 5,813 | 12,002 | 6,801 | 5,201 | 881 | 453 | 428 | 11 | 7 | 4 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81–C96) | 55,590 | 30,777 | 24,813 | 3,634 | 1,968 | 1,666 | 51,881 | 28,760 | 23,121 | 44,975 | 25,120 | 19,855 | 5,390 | 2,792 | 2,598 | 75 | 49 | 26 |
| Hodgkin's disease (C81) | 1,231 | 714 | 517 | 133 | 82 | 51 | 1,095 | 629 | 466 | 952 | 549 | 403 | 114 | 60 | 54 | 3 | 3 | – |
| Non-Hodgkin's lymphoma (C82–C85) | 20,294 | 11,047 | 9,247 | 1,327 | 711 | 616 | 18,937 | 10,314 | 8,623 | 16,873 | 9,192 | 7,681 | 1,488 | 813 | 675 | 30 | 22 | 8 |
| Leukemia (C91–C95) | 22,569 | 12,851 | 9,718 | 1,444 | 785 | 659 | 21,096 | 12,051 | 9,045 | 18,654 | 10,744 | 7,910 | 1,794 | 945 | 849 | 29 | 15 | 14 |
| Multiple myeloma and immunoproliferative neoplasms (C88,C90) | 11,428 | 6,117 | 5,311 | 728 | 388 | 340 | 10,687 | 5,720 | 4,967 | 8,441 | 4,596 | 3,845 | 1,986 | 970 | 1,016 | 13 | 9 | 4 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96) | 68 | 48 | 20 | 2 | 2 | – | 66 | 46 | 20 | 55 | 39 | 16 | 8 | 4 | 4 | – | – | – |
| All other and unspecified malignant neoplasms (C17,C23–C24,C26–C31, C37–C41,C44–C49,C51–C52,C57–C60, C62–C63,C66,C68–C69,C73–C80,C97) | 64,798 | 34,150 | 30,648 | 3,849 | 2,059 | 1,790 | 60,835 | 32,020 | 28,815 | 52,172 | 27,682 | 24,490 | 6,745 | 3,388 | 3,357 | 114 | 71 | 43 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00–D48) | 14,917 | 7,721 | 7,196 | 784 | 404 | 380 | 14,107 | 7,302 | 6,805 | 12,494 | 6,557 | 5,937 | 1,211 | 543 | 668 | 26 | 15 | 11 |
| Anemias (D50–D64) | 4,852 | 2,017 | 2,835 | 236 | 117 | 119 | 4,602 | 1,892 | 2,710 | 3,503 | 1,404 | 2,099 | 995 | 442 | 553 | 14 | 8 | 6 |
| Diabetes mellitus (E10–E14) | 69,071 | 35,490 | 33,581 | 6,556 | 3,372 | 3,184 | 62,357 | 32,027 | 30,330 | 47,746 | 25,134 | 22,612 | 11,996 | 5,572 | 6,424 | 158 | 91 | 67 |
| Nutritional deficiencies (E40–E64) | 2,948 | 1,141 | 1,807 | 175 | 81 | 94 | 2,768 | 1,057 | 1,711 | 2,325 | 891 | 1,434 | 366 | 134 | 232 | 5 | 3 | 2 |
| Malnutrition (E40–E46) | 2,790 | 1,079 | 1,711 | 166 | 78 | 88 | 2,620 | 999 | 1,621 | 2,190 | 840 | 1,350 | 356 | 129 | 227 | 4 | 2 | 2 |
| Other nutritional deficiencies (E50–E64) | 158 | 62 | 96 | 9 | 3 | 6 | 148 | 58 | 90 | 135 | 51 | 84 | 10 | 5 | 5 | 1 | 1 | – |
| Meningitis (G00,G03) | 608 | 303 | 305 | 71 | 33 | 38 | 533 | 266 | 267 | 369 | 185 | 184 | 137 | 63 | 74 | 4 | 4 | – |
| Parkinson's disease (G20–G21) | 22,032 | 12,871 | 9,161 | 982 | 555 | 427 | 21,035 | 12,308 | 8,727 | 19,818 | 11,627 | 8,191 | 795 | 445 | 350 | 15 | 8 | 7 |
| Alzheimer's disease (G30) | 83,494 | 25,364 | 58,130 | 3,427 | 1,171 | 2,256 | 79,984 | 24,169 | 55,815 | 73,502 | 22,278 | 51,224 | 5,169 | 1,471 | 3,698 | 83 | 24 | 59 |
| Major cardiovascular diseases (I00–I78) | 780,213 | 383,547 | 396,666 | 40,154 | 21,220 | 18,934 | 738,164 | 361,226 | 376,938 | 626,610 | 305,928 | 320,682 | 91,807 | 44,993 | 46,814 | 1,895 | 1,101 | 794 |
| Diseases of heart (I00–I09,I11,I13,I20–I51) | 597,689 | 307,384 | 290,305 | 30,006 | 16,421 | 13,585 | 566,098 | 290,006 | 276,092 | 483,973 | 247,765 | 236,208 | 68,215 | 34,597 | 33,618 | 1,585 | 957 | 628 |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09) | 2,987 | 996 | 1,991 | 154 | 52 | 102 | 2,830 | 942 | 1,888 | 2,493 | 831 | 1,662 | 228 | 79 | 149 | 3 | 2 | 1 |
| Hypertensive heart disease (I11) | 33,678 | 16,242 | 17,436 | 2,094 | 1,169 | 925 | 31,406 | 14,967 | 16,439 | 22,966 | 10,533 | 12,433 | 7,611 | 4,007 | 3,604 | 178 | 106 | 72 |
| Hypertensive heart and renal disease (I13) | 2,807 | 1,285 | 1,522 | 215 | 108 | 107 | 2,586 | 1,174 | 1,412 | 1,744 | 757 | 987 | 747 | 377 | 370 | 6 | 3 | 3 |

See footnotes at end of table.

**Table 13. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearm, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins | | | Hispanic | | | Non-Hispanic[1] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | | Origin not stated[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Ischemic heart diseases . . . . . (I20–I25) | 379,559 | 207,580 | 171,979 | 20,494 | 11,546 | 8,948 | 357,969 | 195,358 | 162,611 | 309,492 | 169,637 | 139,855 | 39,047 | 20,282 | 18,765 | 1,096 | 676 | 420 |
| Acute myocardial infarction . . . . . (I21–I22) | 122,071 | 67,435 | 54,636 | 6,554 | 3,726 | 2,828 | 115,254 | 63,543 | 51,711 | 99,600 | 55,411 | 44,189 | 12,597 | 6,366 | 6,231 | 263 | 166 | 97 |
| Other acute ischemic heart diseases . . . . (I24) | 4,170 | 2,156 | 2,014 | 134 | 60 | 74 | 4,029 | 2,090 | 1,939 | 3,388 | 1,739 | 1,649 | 549 | 298 | 251 | 7 | 6 | 1 |
| Other forms of chronic ischemic heart disease . . . . . (I20,I25) | 253,318 | 137,989 | 115,329 | 13,806 | 7,760 | 6,046 | 238,686 | 129,725 | 108,961 | 206,504 | 112,487 | 94,017 | 25,901 | 13,618 | 12,283 | 826 | 504 | 322 |
| Atherosclerotic cardiovascular disease, so described. . . . . (I25.0) | 57,438 | 33,703 | 23,735 | 3,419 | 2,242 | 1,177 | 53,660 | 31,208 | 22,452 | 43,882 | 25,424 | 18,458 | 8,216 | 4,832 | 3,384 | 359 | 253 | 106 |
| All other forms of chronic ischemic heart disease. . . . . (I20,I25.1–I25.9) | 195,880 | 104,286 | 91,594 | 10,387 | 5,518 | 4,869 | 185,026 | 98,517 | 86,509 | 162,622 | 87,063 | 75,559 | 17,685 | 8,786 | 8,899 | 467 | 251 | 216 |
| Other heart diseases . . . . . (I26–I51) | 178,658 | 81,281 | 97,377 | 7,049 | 3,546 | 3,503 | 171,307 | 77,565 | 93,742 | 147,278 | 66,007 | 81,271 | 20,582 | 9,852 | 10,730 | 302 | 170 | 132 |
| Acute and subacute endocarditis. . . . . (I33) | 1,103 | 627 | 476 | 78 | 47 | 31 | 1,023 | 579 | 444 | 810 | 460 | 350 | 183 | 100 | 83 | 2 | 1 | 1 |
| Diseases of pericardium and acute myocarditis . . . . . (I30–I31,I40) | 776 | 405 | 371 | 57 | 31 | 26 | 716 | 372 | 344 | 563 | 290 | 273 | 124 | 64 | 60 | 3 | 2 | 1 |
| Heart failure . . . . . (I50) | 57,757 | 24,385 | 33,372 | 2,024 | 936 | 1,088 | 55,661 | 23,409 | 32,252 | 49,253 | 20,596 | 28,657 | 5,497 | 2,428 | 3,069 | 72 | 40 | 32 |
| All other forms of heart disease . . . . . (I26–I28,I34–I38,I42–I49,I51) | 119,022 | 55,864 | 63,158 | 4,890 | 2,532 | 2,358 | 113,907 | 53,205 | 60,702 | 96,652 | 44,661 | 51,991 | 14,778 | 7,260 | 7,518 | 225 | 127 | 98 |
| Essential hypertension and hypertensive renal disease . . . . . (I10,I12,I15) | 26,634 | 10,846 | 15,788 | 1,712 | 764 | 948 | 24,872 | 10,058 | 14,814 | 18,878 | 7,476 | 11,402 | 5,059 | 2,196 | 2,863 | 50 | 24 | 26 |
| Cerebrovascular diseases. . . . . (I60–I69) | 129,476 | 52,367 | 77,109 | 7,274 | 3,382 | 3,892 | 122,000 | 48,894 | 73,106 | 101,849 | 40,040 | 61,809 | 15,833 | 6,890 | 8,943 | 202 | 91 | 111 |
| Atherosclerosis . . . . . (I70) | 7,230 | 2,933 | 4,297 | 269 | 127 | 142 | 6,952 | 2,803 | 4,149 | 6,242 | 2,490 | 3,752 | 588 | 252 | 336 | 9 | 3 | 6 |
| Other diseases of circulatory system . . . . (I71–I78) | 19,184 | 10,017 | 9,167 | 893 | 526 | 367 | 18,242 | 9,465 | 8,777 | 15,668 | 8,157 | 7,511 | 2,112 | 1,058 | 1,054 | 49 | 26 | 23 |
| Aortic aneurysm and dissection . . . . . (I71) | 10,431 | 6,096 | 4,335 | 438 | 295 | 143 | 9,966 | 5,781 | 4,185 | 8,697 | 5,063 | 3,634 | 956 | 541 | 415 | 27 | 20 | 7 |
| Other diseases of arteries, arterioles and capillaries . . . . . (I72–I78) | 8,753 | 3,921 | 4,832 | 455 | 231 | 224 | 8,276 | 3,684 | 4,592 | 6,971 | 3,094 | 3,877 | 1,156 | 517 | 639 | 22 | 6 | 16 |
| Other disorders of circulatory system . . . . . (I80–I99) | 4,241 | 2,053 | 2,188 | 259 | 135 | 124 | 3,964 | 1,908 | 2,056 | 3,118 | 1,483 | 1,635 | 749 | 374 | 375 | 18 | 10 | 8 |
| Influenza and pneumonia . . . . . (J09–J18) | 50,097 | 23,615 | 26,482 | 3,025 | 1,565 | 1,460 | 46,937 | 21,981 | 24,956 | 40,244 | 18,657 | 21,587 | 4,854 | 2,340 | 2,514 | 135 | 69 | 66 |
| Influenza. . . . . (J09–J11) | 500 | 250 | 250 | 92 | 51 | 41 | 408 | 199 | 209 | 319 | 155 | 164 | 66 | 31 | 35 | – | – | – |
| Pneumonia . . . . . (J12–J18) | 49,597 | 23,365 | 26,232 | 2,933 | 1,514 | 1,419 | 46,529 | 21,782 | 24,747 | 39,925 | 18,502 | 21,423 | 4,788 | 2,309 | 2,479 | 135 | 69 | 66 |
| Other acute lower respiratory infections . . . . . (J20–J22,U04) | 213 | 94 | 119 | 13 | 8 | 5 | 200 | 86 | 114 | 169 | 72 | 97 | 22 | 10 | 12 | – | – | – |
| Acute bronchitis and bronchiolitis . . . . . (J20–J21) | 177 | 74 | 103 | 12 | 7 | 5 | 165 | 67 | 98 | 135 | 54 | 81 | 21 | 9 | 12 | – | – | – |
| Other and unspecified acute lower respiratory infections . . . . . (J22,U04) | 36 | 20 | 16 | 1 | 1 | – | 35 | 19 | 16 | 34 | 18 | 16 | 1 | 1 | – | – | – | – |
| Chronic lower respiratory diseases . . . . . (J40–J47) | 138,080 | 65,423 | 72,657 | 4,172 | 2,174 | 1,998 | 133,638 | 63,100 | 70,538 | 122,887 | 57,390 | 65,497 | 8,614 | 4,480 | 4,134 | 270 | 149 | 121 |
| Bronchitis, chronic and unspecified . . . . . (J40–J42) | 620 | 267 | 353 | 45 | 21 | 24 | 574 | 245 | 329 | 514 | 212 | 302 | 48 | 26 | 22 | 1 | 1 | – |
| Emphysema. . . . . (J43) | 10,034 | 5,227 | 4,807 | 250 | 152 | 98 | 9,749 | 5,051 | 4,698 | 9,021 | 4,594 | 4,427 | 586 | 358 | 228 | 35 | 24 | 11 |
| Asthma. . . . . (J45–J46) | 3,404 | 1,283 | 2,121 | 292 | 120 | 172 | 3,099 | 1,157 | 1,942 | 2,082 | 676 | 1,406 | 862 | 399 | 463 | 13 | 6 | 7 |
| Other chronic lower respiratory diseases . . . . . (J44,J47) | 124,022 | 58,646 | 65,376 | 3,585 | 1,881 | 1,704 | 120,216 | 56,647 | 63,569 | 111,270 | 51,908 | 59,362 | 7,118 | 3,697 | 3,421 | 221 | 118 | 103 |

See footnotes at end of table.

**Table 13. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearm, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

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| Cause of death (based on ICD–10, 2004) | All origins | | | Hispanic | | | Non-Hispanic[1] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | | Origin not stated[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Pneumoconioses and chemical effects . . (J60–J66,J68) | 845 | 812 | 33 | 23 | 23 | – | 820 | 787 | 33 | 778 | 748 | 30 | 36 | 33 | 3 | 2 | 2 | – |
| Pneumonitis due to solids and liquids . . . . . (J69) | 17,011 | 9,208 | 7,803 | 691 | 396 | 295 | 16,300 | 8,796 | 7,504 | 14,539 | 7,862 | 6,677 | 1,369 | 716 | 653 | 20 | 16 | 4 |
| Other diseases of respiratory system . . . . . (J00–J06, J30–J39,J67,J70–J98) | 31,187 | 15,791 | 15,396 | 2,021 | 1,013 | 1,008 | 29,107 | 14,737 | 14,370 | 25,350 | 12,949 | 12,401 | 2,900 | 1,360 | 1,540 | 59 | 41 | 18 |
| Peptic ulcer . . . . . (K25–K28) | 2,977 | 1,460 | 1,517 | 140 | 76 | 64 | 2,826 | 1,376 | 1,450 | 2,428 | 1,153 | 1,275 | 290 | 168 | 122 | 11 | 8 | 3 |
| Diseases of appendix. . . . . (K35–K38) | 415 | 258 | 157 | 28 | 22 | 6 | 385 | 234 | 151 | 328 | 195 | 133 | 42 | 28 | 14 | 2 | 2 | – |
| Hernia. . . . . (K40–K46) | 1,832 | 814 | 1,018 | 120 | 44 | 76 | 1,707 | 766 | 941 | 1,515 | 671 | 844 | 162 | 78 | 84 | 5 | 4 | 1 |
| Chronic liver disease and cirrhosis . . . . (K70,K73–K74) | 31,903 | 20,798 | 11,105 | 4,348 | 3,067 | 1,281 | 27,455 | 17,657 | 9,798 | 23,655 | 15,270 | 8,385 | 2,601 | 1,694 | 907 | 100 | 74 | 26 |
| Alcoholic liver disease . . . . . .(K70) | 15,990 | 11,441 | 4,549 | 2,389 | 1,937 | 452 | 13,540 | 9,458 | 4,082 | 11,607 | 8,185 | 3,422 | 1,206 | 808 | 398 | 61 | 46 | 15 |
| Other chronic liver disease and cirrhosis . . . . . (K73–K74) | 15,913 | 9,357 | 6,556 | 1,959 | 1,130 | 829 | 13,915 | 8,199 | 5,716 | 12,048 | 7,085 | 4,963 | 1,395 | 886 | 509 | 39 | 28 | 11 |
| Cholelithiasis and other disorders of gallbladder . . . . . (K80–K82) | 3,332 | 1,552 | 1,780 | 247 | 130 | 117 | 3,075 | 1,419 | 1,656 | 2,663 | 1,236 | 1,427 | 296 | 120 | 176 | 10 | 3 | 7 |
| Nephritis, nephrotic syndrome and nephrosis . . . . . .(N00–N07,N17–N19,N25–N27) | 50,476 | 24,865 | 25,611 | 3,252 | 1,670 | 1,582 | 47,120 | 23,140 | 23,980 | 36,963 | 18,503 | 18,460 | 8,769 | 3,984 | 4,785 | 104 | 55 | 49 |
| Acute and rapidly progressive nephritic and nephrotic syndrome. . . . . .(N00–N01,N04) | 203 | 97 | 106 | 12 | 6 | 6 | 191 | 91 | 100 | 150 | 70 | 80 | 32 | 18 | 14 | – | – | – |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified . . . . (N02–N03,N05–N07,N26) | 5,894 | 2,775 | 3,119 | 326 | 162 | 164 | 5,552 | 2,603 | 2,949 | 4,445 | 2,108 | 2,337 | 937 | 427 | 510 | 16 | 10 | 6 |
| Renal failure. . . . . (N17–N19) | 44,362 | 21,989 | 22,373 | 2,913 | 1,502 | 1,411 | 41,361 | 20,442 | 20,919 | 32,356 | 16,322 | 16,034 | 7,796 | 3,538 | 4,258 | 88 | 45 | 43 |
| Other disorders of kidney . . . . . .(N25,N27) | 17 | 4 | 13 | 1 | – | 1 | 16 | 4 | 12 | 12 | 3 | 9 | 4 | 1 | 3 | – | – | – |
| Infections of kidney . . . . . .(N10–N12,N13.6,N15.1) | 608 | 187 | 421 | 44 | 12 | 32 | 562 | 175 | 387 | 481 | 147 | 334 | 65 | 26 | 39 | 2 | – | 2 |
| Hyperplasia of prostate. . . . . (N40) | 489 | 489 | . . . | 28 | 28 | . . . | 459 | 459 | . . . | 416 | 416 | . . . | 35 | 35 | . . . | 2 | 2 | . . . |
| Inflammatory diseases of female pelvic organs. . . . . (N70–N76) | 137 | . . . | 137 | 12 | . . . | 12 | 125 | . . . | 125 | 101 | . . . | 101 | 21 | . . . | 21 | – | . . . | – |
| Pregnancy, childbirth and the puerperium . . (O00–O99) | 825 | . . . | 825 | 146 | . . . | 146 | 670 | . . . | 670 | 357 | . . . | 357 | 261 | . . . | 261 | 9 | . . . | 9 |
| Pregnancy with abortive outcome . . . . . (O00–O07) | 37 | . . . | 37 | 8 | . . . | 8 | 28 | . . . | 28 | 11 | . . . | 11 | 17 | . . . | 17 | 1 | . . . | 1 |
| Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99) | 788 | . . . | 788 | 138 | . . . | 138 | 642 | . . . | 642 | 346 | . . . | 346 | 244 | . . . | 244 | 8 | . . . | 8 |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 12,128 | 6,803 | 5,325 | 2,529 | 1,456 | 1,073 | 9,446 | 5,269 | 4,177 | 5,065 | 2,830 | 2,235 | 3,846 | 2,116 | 1,730 | 153 | 78 | 75 |
| Congenital malformations, deformations and chromosomal abnormalities. . . . . (Q00–Q99) | 9,673 | 4,960 | 4,713 | 1,786 | 903 | 883 | 7,845 | 4,032 | 3,813 | 5,832 | 2,981 | 2,851 | 1,608 | 850 | 758 | 42 | 25 | 17 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99) | 38,360 | 16,057 | 22,303 | 2,069 | 1,065 | 1,004 | 36,151 | 14,900 | 21,251 | 30,602 | 12,246 | 18,356 | 4,840 | 2,293 | 2,547 | 140 | 92 | 48 |
| All other diseases . . . . . (residual) | 269,844 | 109,547 | 160,297 | 13,964 | 6,565 | 7,399 | 255,372 | 102,717 | 152,655 | 221,437 | 88,360 | 133,077 | 28,230 | 11,758 | 16,472 | 508 | 265 | 243 |
| Accidents (unintentional injuries) . .(V01–X59,Y85–Y86) | 120,859 | 75,921 | 44,938 | 10,476 | 7,594 | 2,882 | 109,968 | 68,032 | 41,936 | 94,420 | 57,747 | 36,673 | 11,853 | 7,920 | 3,933 | 415 | 295 | 120 |
| Transport accidents . . . . . .(V01–V99,Y85) | 37,961 | 26,783 | 11,178 | 4,778 | 3,518 | 1,260 | 33,045 | 23,165 | 9,880 | 26,868 | 18,845 | 8,023 | 4,668 | 3,358 | 1,310 | 138 | 100 | 38 |

See footnotes at end of table.

**Table 13. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearm, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins | | | Hispanic | | | Non-Hispanic[1] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | | Origin not stated[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Motor vehicle accidents . . . . . (V02–V04,V09.0, V09.2,V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 35,332 | 24,723 | 10,609 | 4,509 | 3,291 | 1,218 | 30,700 | 21,345 | 9,355 | 24,898 | 17,318 | 7,580 | 4,398 | 3,146 | 1,252 | 123 | 87 | 36 |
| Other land transport accidents. . . . . (V01,V05–V06, V09.1,V09.3–V09.9,V10–V11,V15–V18,V19.3, V19.8–V19.9,V80.0–V80.2,V80.6–V80.9, V81.2–V81.9,V82.2–V82.9,V87.9,V88.9, V89.1,V89.3,V89.9) | 1,029 | 794 | 235 | 169 | 146 | 23 | 854 | 642 | 212 | 669 | 499 | 170 | 135 | 105 | 30 | 6 | 6 | – |
| Water, air and space, and other and unspecified transport accidents and their sequelae . . . . . (V90–V99,Y85) | 1,600 | 1,266 | 334 | 100 | 81 | 19 | 1,491 | 1,178 | 313 | 1,301 | 1,028 | 273 | 135 | 107 | 28 | 9 | 7 | 2 |
| Nontransport accidents . . . . . (W00–X59,Y86) | 82,898 | 49,138 | 33,760 | 5,698 | 4,076 | 1,622 | 76,923 | 44,867 | 32,056 | 67,552 | 38,902 | 28,650 | 7,185 | 4,562 | 2,623 | 277 | 195 | 82 |
| Falls . . . . . (W00–W19) | 26,009 | 13,049 | 12,960 | 1,275 | 791 | 484 | 24,683 | 12,234 | 12,449 | 22,842 | 11,178 | 11,664 | 1,147 | 660 | 487 | 51 | 24 | 27 |
| Accidental discharge of firearms. . . . . (W32–W34) | 606 | 515 | 91 | 37 | 34 | 3 | 568 | 480 | 88 | 439 | 364 | 75 | 112 | 100 | 12 | 1 | 1 | – |
| Accidental drowning and submersion. . . . . (W65–W74) | 3,782 | 2,936 | 846 | 527 | 447 | 80 | 3,241 | 2,476 | 765 | 2,462 | 1,838 | 624 | 551 | 459 | 92 | 14 | 13 | 1 |
| Accidental exposure to smoke, fire and flames . . . . . (X00–X09) | 2,782 | 1,624 | 1,158 | 171 | 113 | 58 | 2,595 | 1,499 | 1,096 | 1,956 | 1,130 | 826 | 569 | 331 | 238 | 16 | 12 | 4 |
| Accidental poisoning and exposure to noxious substances . . . . . (X40–X49) | 33,041 | 21,117 | 11,924 | 2,601 | 1,918 | 683 | 30,292 | 19,086 | 11,206 | 26,620 | 16,746 | 9,874 | 2,938 | 1,861 | 1,077 | 148 | 113 | 35 |
| Other and unspecified nontransport accidents and their sequelae . . . . . (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 16,678 | 9,897 | 6,781 | 1,087 | 773 | 314 | 15,544 | 9,092 | 6,452 | 13,233 | 7,646 | 5,587 | 1,868 | 1,151 | 717 | 47 | 32 | 15 |
| Intentional self-harm (suicide) . . . . . (*U03,X60–X84,Y87.0) | 38,364 | 30,277 | 8,087 | 2,661 | 2,168 | 493 | 35,562 | 27,994 | 7,568 | 32,010 | 25,238 | 6,772 | 2,091 | 1,712 | 379 | 141 | 115 | 26 |
| Intentional self-harm (suicide) by discharge of firearms . . . . . (X72–X74) | 19,392 | 16,962 | 2,430 | 962 | 868 | 94 | 18,365 | 16,036 | 2,329 | 16,928 | 14,762 | 2,166 | 1,057 | 946 | 111 | 65 | 58 | 7 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae. . . . . (*U03, X60–X71,X75–X84,Y87.0) | 18,972 | 13,315 | 5,657 | 1,699 | 1,300 | 399 | 17,197 | 11,958 | 5,239 | 15,082 | 10,476 | 4,606 | 1,034 | 766 | 268 | 76 | 57 | 19 |
| Assault (homicide) . . . . . .(*U01–*U02,X85–Y09,Y87.1) | 16,259 | 12,774 | 3,485 | 2,890 | 2,435 | 455 | 13,252 | 10,238 | 3,014 | 5,035 | 3,267 | 1,768 | 7,679 | 6,580 | 1,099 | 117 | 101 | 16 |
| Assault (homicide) by discharge of firearms . . . . . .(*U01.4,X93–X95) | 11,078 | 9,340 | 1,738 | 1,919 | 1,706 | 213 | 9,082 | 7,565 | 1,517 | 2,775 | 1,894 | 881 | 6,051 | 5,460 | 591 | 77 | 69 | 8 |
| Assault (homicide) by other and unspecified means and their sequelae . . . . . .(*U01.0–*U01.3, *U01.5–*U01.9,*U02,X85–X92,X96–Y09,Y87.1) | 5,181 | 3,434 | 1,747 | 971 | 729 | 242 | 4,170 | 2,673 | 1,497 | 2,260 | 1,373 | 887 | 1,628 | 1,120 | 508 | 40 | 32 | 8 |
| Legal intervention. . . . . (Y35,Y89.0) | 412 | 399 | 13 | 75 | 75 | – | 335 | 322 | 13 | 220 | 212 | 8 | 97 | 95 | 2 | 2 | 2 | – |
| Events of undetermined intent . . .(Y10–Y34,Y87.2,Y89.9) | 4,908 | 2,930 | 1,978 | 349 | 242 | 107 | 4,531 | 2,667 | 1,864 | 3,783 | 2,194 | 1,589 | 587 | 377 | 210 | 28 | 21 | 7 |
| Discharge of firearms, undetermined intent . . (Y22–Y24) | 252 | 203 | 49 | 25 | 21 | 4 | 227 | 182 | 45 | 186 | 151 | 35 | 32 | 25 | 7 | – | – | – |

See footnotes at end of table.

**Table 13. Number of deaths from 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearm, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins | | | Hispanic | | | Non-Hispanic[1] | | | Non-Hispanic white[2] | | | Non-Hispanic black[2] | | | Origin not stated[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Other and unspecified events of undetermined intent and their sequelae. . . . . (Y10–Y21,Y25–Y34, Y87.2,Y89.9) | 4,656 | 2,727 | 1,929 | 324 | 221 | 103 | 4,304 | 2,485 | 1,819 | 3,597 | 2,043 | 1,554 | 555 | 352 | 203 | 28 | 21 | 7 |
| Operations of war and their sequelae . . . . . (Y36,Y89.1) | 9 | 9 | – | – | – | – | 9 | 9 | – | 7 | 7 | – | 1 | 1 | – | – | – | – |
| Complications of medical and surgical care . . . . . (Y40–Y84,Y88) | 2,490 | 1,167 | 1,323 | 148 | 80 | 68 | 2,337 | 1,084 | 1,253 | 1,875 | 888 | 987 | 398 | 169 | 229 | 5 | 3 | 2 |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[4] | 7,298 | 2,889 | 4,409 | 380 | 158 | 222 | 6,908 | 2,726 | 4,182 | 6,298 | 2,471 | 3,827 | 476 | 196 | 280 | 10 | 5 | 5 |
| Drug-induced deaths[5,6] . . . . . | 40,393 | 24,376 | 16,017 | 2,788 | 1,944 | 844 | 37,420 | 22,303 | 15,117 | 33,145 | 19,689 | 13,456 | 3,502 | 2,170 | 1,332 | 185 | 129 | 56 |
| Alcohol-induced deaths[5,7]. . . . . | 25,692 | 19,038 | 6,654 | 3,326 | 2,759 | 567 | 22,242 | 16,178 | 6,064 | 18,806 | 13,735 | 5,071 | 2,296 | 1,661 | 635 | 124 | 101 | 23 |
| Injury by firearms[5,8] . . . . . | 31,672 | 27,356 | 4,316 | 3,008 | 2,694 | 314 | 28,519 | 24,532 | 3,987 | 20,513 | 17,350 | 3,163 | 7,330 | 6,607 | 723 | 145 | 130 | 15 |

– Quantity zero.

. . . Category not applicable.

[1]Includes races other than white and black.

[2]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[3]Includes deaths for which Hispanic origin was not reported on the death certificate.

[4]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes; see Technical Notes.

[5]Included in selected categories above.

[6]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[8]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 14. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All causes | 799.5 | 812.0 | 787.4 | 861.7 | 866.1 | 857.3 | 682.2 | 725.4 | 642.7 | 365.1 | 397.5 | 332.4 | 301.1 | 327.0 | 277.3 |
| Salmonella infections (A01–A02) | 0.0 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Shigellosis and amebiasis (A03,A06) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Certain other intestinal infections (A04,A07–A09) | 3.3 | 2.7 | 4.0 | 3.8 | 3.0 | 4.6 | 2.0 | 1.8 | 2.1 | 1.5 | 1.4 | 1.5 | 0.8 | 0.8 | 0.8 |
| Tuberculosis (A16–A19) | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.4 | 0.2 | * | * | * | 0.6 | 0.7 | 0.4 |
| Respiratory tuberculosis (A16) | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | 0.1 | * | * | * | 0.5 | 0.6 | 0.3 |
| Other tuberculosis (A17–A19) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | * | * | * | * | * | * | * | * |
| Whooping cough (A37) | 0.0 | * | * | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Scarlet fever and erysipelas (A38,A46) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Meningococcal infection (A39) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * |
| Septicemia (A40–A41) | 11.3 | 10.6 | 11.9 | 11.4 | 10.7 | 12.1 | 14.3 | 13.4 | 15.1 | 5.7 | 4.9 | 6.5 | 3.4 | 3.6 | 3.2 |
| Syphilis (A50–A53) | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Acute poliomyelitis (A80) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Measles (B05) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Viral hepatitis (B15–B19) | 2.4 | 3.3 | 1.6 | 2.5 | 3.4 | 1.6 | 2.6 | 3.5 | 1.8 | 2.3 | 2.9 | 1.7 | 1.8 | 2.1 | 1.5 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 2.7 | 4.0 | 1.4 | 1.5 | 2.4 | 0.5 | 11.1 | 15.2 | 7.4 | 1.4 | 2.2 | * | 0.4 | 0.7 | * |
| Malaria (B50–B54) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36,A42–A44, A48–A49,A54–A79,A81–A82,A85.0–A85.1,A85.8, A86–B04,B06–B09,B25–B49,B55–B99) | 1.9 | 2.0 | 1.8 | 2.0 | 2.0 | 1.9 | 1.8 | 2.0 | 1.7 | 1.2 | 1.3 | 1.2 | 1.0 | 1.2 | 0.9 |
| Malignant neoplasms (C00–C97) | 186.2 | 198.3 | 174.4 | 200.3 | 212.7 | 188.2 | 156.7 | 169.0 | 145.5 | 69.5 | 74.1 | 64.8 | 83.4 | 88.6 | 78.5 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 2.7 | 3.8 | 1.7 | 2.9 | 4.0 | 1.8 | 2.4 | 3.6 | 1.3 | 1.0 | 1.2 | * | 1.6 | 2.2 | 1.1 |
| Malignant neoplasm of esophagus (C15) | 4.7 | 7.5 | 2.0 | 5.2 | 8.4 | 2.1 | 3.4 | 5.2 | 1.8 | 1.5 | 2.3 | * | 1.3 | 2.2 | 0.6 |
| Malignant neoplasm of stomach (C16) | 3.7 | 4.4 | 3.0 | 3.5 | 4.1 | 2.8 | 4.8 | 5.9 | 3.7 | 2.0 | 2.7 | 1.4 | 4.6 | 5.4 | 3.8 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 17.0 | 18.0 | 16.1 | 17.9 | 18.8 | 17.0 | 16.7 | 18.0 | 15.4 | 6.7 | 7.1 | 6.4 | 8.7 | 9.2 | 8.2 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 6.6 | 9.0 | 4.2 | 6.5 | 8.8 | 4.3 | 6.7 | 9.9 | 3.8 | 4.6 | 6.7 | 2.5 | 7.9 | 11.1 | 4.9 |
| Malignant neoplasm of pancreas (C25) | 11.9 | 12.3 | 11.6 | 12.8 | 13.2 | 12.4 | 10.3 | 10.4 | 10.2 | 4.2 | 4.5 | 3.8 | 5.7 | 5.4 | 6.0 |
| Malignant neoplasm of larynx (C32) | 1.2 | 1.9 | 0.5 | 1.2 | 2.0 | 0.5 | 1.5 | 2.4 | 0.6 | 0.6 | 0.9 | * | 0.3 | 0.5 | * |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 51.3 | 57.8 | 45.0 | 56.1 | 62.3 | 50.0 | 39.7 | 48.7 | 31.4 | 18.4 | 20.8 | 16.0 | 18.5 | 22.5 | 14.9 |
| Malignant melanoma of skin (C43) | 3.0 | 4.0 | 2.0 | 3.6 | 4.9 | 2.5 | 0.3 | 0.3 | 0.3 | 0.5 | * | * | 0.3 | 0.3 | 0.3 |
| Malignant neoplasm of breast (C50) | 13.4 | 0.3 | 26.1 | 13.9 | 0.3 | 27.3 | 14.5 | 0.4 | 27.5 | 4.0 | * | 8.0 | 5.7 | * | 10.8 |
| Malignant neoplasm of cervix uteri (C53) | 1.3 | . . . | 2.5 | 1.2 | . . . | 2.4 | 1.9 | . . . | 3.6 | 0.8 | . . . | 1.7 | 0.8 | . . . | 1.6 |

See footnotes at end of table.

**Table 14. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Malignant neoplasms of corpus uteri and uterus, part unspecified (C54–C55) | 2.7 | . . . | 5.4 | 2.7 | . . . | 5.4 | 3.4 | . . . | 6.5 | 0.8 | . . . | 1.7 | 1.4 | . . . | 2.7 |
| Malignant neoplasm of ovary (C56) | 4.7 | . . . | 9.3 | 5.2 | . . . | 10.4 | 3.0 | . . . | 5.8 | 1.7 | . . . | 3.4 | 2.2 | . . . | 4.3 |
| Malignant neoplasm of prostate (C61) | 9.3 | 18.8 | . . . | 9.4 | 19.1 | . . . | 11.5 | 24.1 | . . . | 2.7 | 5.5 | . . . | 2.5 | 5.1 | . . . |
| Malignant neoplasms of kidney and renal pelvis (C64–C65) | 4.3 | 5.6 | 3.0 | 4.8 | 6.2 | 3.4 | 2.8 | 3.5 | 2.2 | 2.6 | 3.5 | 1.7 | 1.6 | 2.2 | 1.0 |
| Malignant neoplasm of bladder (C67) | 4.8 | 6.9 | 2.7 | 5.5 | 7.9 | 3.0 | 2.6 | 3.1 | 2.1 | 1.1 | 1.4 | * | 1.2 | 1.7 | 0.8 |
| Malignant neoplasms of meninges, brain and other parts of central nervous system (C70–C72) | 4.6 | 5.3 | 3.9 | 5.2 | 6.0 | 4.5 | 2.1 | 2.3 | 2.0 | 1.7 | 1.8 | 1.7 | 1.9 | 2.1 | 1.7 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81–C96) | 18.0 | 20.3 | 15.8 | 19.8 | 22.3 | 17.3 | 13.0 | 14.0 | 12.0 | 5.4 | 6.0 | 4.8 | 7.8 | 9.1 | 6.6 |
| Hodgkin's disease (C81) | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.4 | 0.3 | 0.3 | 0.2 | * | * | * | 0.1 | * | * |
| Non-Hodgkin's lymphoma (C82–C85) | 6.6 | 7.3 | 5.9 | 7.4 | 8.2 | 6.7 | 3.6 | 4.1 | 3.1 | 1.6 | 1.9 | 1.4 | 3.0 | 3.4 | 2.7 |
| Leukemia (C91–C95) | 7.3 | 8.5 | 6.2 | 8.2 | 9.5 | 6.9 | 4.3 | 4.8 | 3.9 | 2.5 | 2.8 | 2.3 | 3.3 | 3.8 | 2.8 |
| Multiple myeloma and immunoproliferative neoplasms (C88,C90) | 3.7 | 4.0 | 3.4 | 3.7 | 4.1 | 3.4 | 4.8 | 4.9 | 4.7 | 1.1 | 1.2 | 1.0 | 1.3 | 1.6 | 1.0 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * | * |
| All other and unspecified malignant neoplasms (C17,C23–C24,C26–C31, C37–C41,C44–C49,C51–C52,C57–C60, C62–C63,C66,C68–C69,C73–C80,C97) | 21.0 | 22.5 | 19.5 | 22.8 | 24.5 | 21.2 | 16.2 | 17.1 | 15.4 | 9.0 | 9.2 | 8.9 | 9.3 | 9.6 | 9.1 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00–D48) | 4.8 | 5.1 | 4.6 | 5.4 | 5.7 | 5.1 | 2.9 | 2.7 | 3.1 | 1.4 | 1.5 | 1.3 | 2.1 | 2.1 | 2.0 |
| Anemias (D50–D64) | 1.6 | 1.3 | 1.8 | 1.5 | 1.3 | 1.8 | 2.4 | 2.2 | 2.6 | * | * | * | 0.5 | 0.5 | 0.5 |
| Diabetes mellitus (E10–E14) | 22.4 | 23.4 | 21.4 | 22.1 | 23.5 | 20.8 | 28.8 | 28.1 | 29.5 | 20.1 | 20.2 | 20.0 | 10.8 | 11.5 | 10.2 |
| Nutritional deficiencies (E40–E64) | 1.0 | 0.8 | 1.2 | 1.0 | 0.8 | 1.2 | 0.9 | 0.7 | 1.1 | 0.7 | * | 0.9 | 0.3 | 0.3 | 0.3 |
| Malnutrition (E40–E46) | 0.9 | 0.7 | 1.1 | 1.0 | 0.8 | 1.2 | 0.8 | 0.6 | 1.0 | 0.7 | * | * | 0.3 | 0.3 | 0.3 |
| Other nutritional deficiencies (E50–E64) | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | * | * | * | * | * | * | * | * | * |
| Meningitis (G00,G03) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | * | * | * | 0.1 | * | * |
| Parkinson's disease (G20–G21) | 7.1 | 8.5 | 5.8 | 8.5 | 10.0 | 6.9 | 1.9 | 2.2 | 1.6 | 1.5 | 1.9 | 1.0 | 2.2 | 2.5 | 1.9 |
| Alzheimer's disease (G30) | 27.0 | 16.7 | 37.0 | 31.3 | 19.3 | 43.1 | 12.4 | 7.4 | 17.0 | 6.2 | 4.2 | 8.3 | 6.4 | 4.2 | 8.3 |
| Major cardiovascular diseases (I00–I78) | 252.7 | 252.7 | 252.7 | 271.8 | 269.7 | 273.9 | 220.8 | 226.7 | 215.5 | 84.5 | 92.0 | 76.9 | 97.9 | 106.0 | 90.4 |
| Diseases of heart (I00–I09,I11,I13,I20–I51) | 193.6 | 202.5 | 184.9 | 209.6 | 217.8 | 201.5 | 164.2 | 174.6 | 154.8 | 65.5 | 75.0 | 55.9 | 67.6 | 77.0 | 59.0 |
| Acute rheumatic fever and chronic rheumatic heart diseases (I00–I09) | 1.0 | 0.7 | 1.3 | 1.1 | 0.7 | 1.4 | 0.6 | 0.4 | 0.7 | * | * | * | 0.6 | 0.3 | 0.8 |
| Hypertensive heart disease (I11) | 10.9 | 10.7 | 11.1 | 10.2 | 9.7 | 10.8 | 18.4 | 20.3 | 16.6 | 4.0 | 4.7 | 3.3 | 4.0 | 4.2 | 3.9 |
| Hypertensive heart and renal disease (I13) | 0.9 | 0.8 | 1.0 | 0.8 | 0.7 | 0.9 | 1.8 | 1.9 | 1.7 | * | * | * | 0.5 | 0.4 | 0.5 |
| Ischemic heart diseases (I20–I25) | 122.9 | 136.8 | 109.6 | 134.6 | 149.4 | 120.1 | 94.2 | 102.6 | 86.6 | 42.9 | 51.2 | 34.6 | 46.0 | 55.1 | 37.7 |

See footnotes at end of table.

**Table 14. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Acute myocardial infarction . . . . . (I21–I22) | 39.5 | 44.4 | 34.8 | 43.3 | 48.7 | 37.9 | 30.3 | 32.1 | 28.7 | 13.9 | 17.1 | 10.7 | 14.9 | 17.7 | 12.3 |
| Other acute ischemic heart diseases . . . . . (I24) | 1.4 | 1.4 | 1.3 | 1.4 | 1.5 | 1.4 | 1.3 | 1.5 | 1.2 | 0.9 | 1.1 | * | 0.3 | 0.4 | 0.3 |
| Other forms of chronic ischemic heart disease . . . . . (I20,I25) | 82.0 | 90.9 | 73.5 | 89.9 | 99.2 | 80.8 | 62.6 | 69.0 | 56.7 | 28.1 | 33.0 | 23.2 | 30.8 | 37.0 | 25.2 |
| Atherosclerotic cardiovascular disease, so described . . . . . (I25.0) | 18.6 | 22.2 | 15.1 | 19.3 | 22.9 | 15.9 | 19.9 | 24.5 | 15.6 | 8.7 | 10.9 | 6.6 | 7.3 | 9.2 | 5.5 |
| All other forms of chronic ischemic heart disease . . . . . .(I20,I25.1–I25.9) | 63.4 | 68.7 | 58.4 | 70.5 | 76.3 | 64.9 | 42.7 | 44.5 | 41.1 | 19.4 | 22.1 | 16.6 | 23.5 | 27.8 | 19.7 |
| Other heart diseases . . . . . (I26–I51) | 57.9 | 53.6 | 62.0 | 62.9 | 57.3 | 68.4 | 49.3 | 49.5 | 49.2 | 17.8 | 18.4 | 17.3 | 16.5 | 17.0 | 16.1 |
| Acute and subacute endocarditis . . . . . (I33) | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.4 | 0.5 | 0.4 | * | * | * | 0.1 | * | * |
| Diseases of pericardium and acute myocarditis . . . . . .(I30–I31,I40) | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.2 | 0.3 | 0.3 | 0.3 | * | * | * | 0.1 | * | * |
| Heart failure . . . . . (I50) | 18.7 | 16.1 | 21.3 | 20.9 | 17.7 | 24.0 | 13.1 | 12.2 | 14.0 | 5.3 | 4.2 | 6.3 | 4.2 | 3.8 | 4.6 |
| All other forms of heart disease . . . . . (I26–I28,I34–I38,I42–I49,I51) | 38.6 | 36.8 | 40.2 | 41.4 | 38.9 | 43.8 | 35.4 | 36.5 | 34.5 | 12.1 | 13.6 | 10.6 | 12.1 | 12.8 | 11.4 |
| Essential hypertension and hypertensive renal disease . . . . . (I10,I12,I15) | 8.6 | 7.1 | 10.1 | 8.4 | 6.8 | 9.9 | 12.2 | 11.0 | 13.2 | 3.4 | 2.9 | 3.9 | 4.8 | 4.1 | 5.4 |
| Cerebrovascular diseases . . . . . (I60–I69) | 41.9 | 34.5 | 49.1 | 44.5 | 35.8 | 53.0 | 38.0 | 34.5 | 41.1 | 13.1 | 12.0 | 14.2 | 22.6 | 21.5 | 23.5 |
| Atherosclerosis . . . . . (I70) | 2.3 | 1.9 | 2.7 | 2.7 | 2.2 | 3.1 | 1.4 | 1.3 | 1.5 | * | * | * | 0.6 | 0.7 | 0.5 |
| Other diseases of circulatory system . . . . . (I71–I78) | 6.2 | 6.6 | 5.8 | 6.7 | 7.2 | 6.4 | 5.1 | 5.3 | 4.9 | 2.1 | 1.8 | 2.3 | 2.3 | 2.7 | 1.9 |
| Aortic aneurysm and dissection . . . . . (I71) | 3.4 | 4.0 | 2.8 | 3.7 | 4.4 | 3.0 | 2.3 | 2.7 | 1.9 | 1.1 | 1.2 | 1.0 | 1.6 | 2.0 | 1.3 |
| Other diseases of arteries, arterioles and capillaries . . . . . (I72–I78) | 2.8 | 2.6 | 3.1 | 3.0 | 2.7 | 3.3 | 2.8 | 2.6 | 2.9 | 0.9 | * | 1.3 | 0.7 | 0.7 | 0.6 |
| Other disorders of circulatory system . . . . . (I80–I99) | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 | 1.4 | 1.8 | 1.9 | 1.7 | 0.5 | * | * | 0.5 | 0.6 | 0.4 |
| Influenza and pneumonia . . . . . (J09–J18) | 16.2 | 15.6 | 16.9 | 17.6 | 16.7 | 18.6 | 11.7 | 11.8 | 11.6 | 7.6 | 8.0 | 7.3 | 9.1 | 10.1 | 8.1 |
| Influenza . . . . . (J09–J11) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | * | * | * | * | * | * |
| Pneumonia . . . . . (J12–J18) | 16.1 | 15.4 | 16.7 | 17.5 | 16.5 | 18.4 | 11.6 | 11.7 | 11.5 | 7.6 | 7.9 | 7.2 | 8.9 | 10.0 | 8.0 |
| Other acute lower respiratory infections . . .(J20–J22,U04) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * | * | * | * | * | * | * |
| Acute bronchitis and bronchiolitis . . . . . (J20–J21) | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | * | * | * | * | * | * | * | * |
| Other and unspecified acute lower respiratory infections . . . . . (J22,U04) | 0.0 | 0.0 | * | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Chronic lower respiratory diseases . . . . . (J40–J47) | 44.7 | 43.1 | 46.3 | 51.8 | 49.1 | 54.5 | 20.7 | 22.5 | 19.0 | 16.5 | 16.3 | 16.6 | 8.8 | 11.2 | 6.5 |
| Bronchitis, chronic and unspecified . . . . . (J40–J42) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | * | * | * | * | * | * |
| Emphysema . . . . . (J43) | 3.2 | 3.4 | 3.1 | 3.8 | 3.9 | 3.7 | 1.4 | 1.8 | 1.1 | 1.0 | 1.0 | 1.1 | 0.6 | 1.0 | 0.2 |
| Asthma . . . . . (J45–J46) | 1.1 | 0.8 | 1.4 | 1.0 | 0.7 | 1.3 | 2.1 | 2.0 | 2.1 | 0.5 | * | * | 0.8 | 0.9 | 0.7 |
| Other chronic lower respiratory diseases . . . .(J44,J47) | 40.2 | 38.6 | 41.7 | 46.8 | 44.4 | 49.3 | 17.1 | 18.6 | 15.7 | 14.8 | 14.6 | 15.0 | 7.3 | 9.3 | 5.5 |
| Pneumoconioses and chemical effects . . . .(J60–J66,J68) | 0.3 | 0.5 | 0.0 | 0.3 | 0.6 | 0.0 | 0.1 | 0.2 | * | * | * | * | * | * | * |
| Pneumonitis due to solids and liquids . . . . . (J69) | 5.5 | 6.1 | 5.0 | 6.2 | 6.8 | 5.6 | 3.3 | 3.6 | 3.0 | 1.9 | 1.9 | 2.0 | 1.8 | 2.2 | 1.5 |
| Other diseases of respiratory system . . . . . (J00–J06, J30–J39,J67,J70–J98) | 10.1 | 10.4 | 9.8 | 11.2 | 11.5 | 10.8 | 7.0 | 6.9 | 7.0 | 5.6 | 5.3 | 5.9 | 3.8 | 4.1 | 3.6 |

See footnotes at end of table.

**Table 14. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Peptic ulcer . . . . . (K25–K28) | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.1 | 0.7 | 0.9 | 0.6 | 0.5 | * | * | 0.5 | 0.6 | 0.5 |
| Diseases of appendix . . . . . (K35–K38) | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | * | * | * | * | * | * | * |
| Hernia . . . . . (K40–K46) | 0.6 | 0.5 | 0.6 | 0.7 | 0.6 | 0.7 | 0.4 | 0.4 | 0.4 | * | * | * | * | * | * |
| Chronic liver disease and cirrhosis . . . . . (K70,K73–K74) | 10.3 | 13.7 | 7.1 | 11.4 | 15.1 | 7.8 | 6.3 | 8.5 | 4.2 | 18.5 | 20.0 | 16.9 | 2.7 | 3.7 | 1.9 |
| Alcoholic liver disease . . . . . (K70) | 5.2 | 7.5 | 2.9 | 5.7 | 8.3 | 3.1 | 2.9 | 4.1 | 1.8 | 13.9 | 16.4 | 11.4 | 1.0 | 1.8 | 0.4 |
| Other chronic liver disease and cirrhosis . . . (K73–K74) | 5.2 | 6.2 | 4.2 | 5.7 | 6.8 | 4.7 | 3.3 | 4.4 | 2.3 | 4.6 | 3.6 | 5.5 | 1.7 | 2.0 | 1.5 |
| Cholelithiasis and other disorders of gallbladder . . . . . (K80–K82) | 1.1 | 1.0 | 1.1 | 1.2 | 1.1 | 1.2 | 0.7 | 0.6 | 0.8 | 0.5 | * | * | 0.6 | 0.6 | 0.5 |
| Nephritis, nephrotic syndrome and nephrosis . . . . . (N00–N07,N17–N19,N25–N27) | 16.3 | 16.4 | 16.3 | 16.4 | 16.6 | 16.2 | 21.0 | 20.0 | 22.0 | 8.0 | 7.1 | 8.8 | 6.4 | 6.4 | 6.4 |
| Acute and rapidly progressive nephritic and nephrotic syndrome . . . . . (N00–N01,N04) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * | * | * | * | * | * | * |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified . . . . . (N02–N03,N05–N07,N26) | 1.9 | 1.8 | 2.0 | 1.9 | 1.9 | 2.0 | 2.3 | 2.1 | 2.3 | 1.0 | 0.9 | 1.0 | 0.8 | 0.7 | 0.9 |
| Renal failure . . . . . (N17–N19) | 14.4 | 14.5 | 14.3 | 14.4 | 14.7 | 14.1 | 18.7 | 17.7 | 19.5 | 7.0 | 6.2 | 7.7 | 5.6 | 5.7 | 5.4 |
| Other disorders of kidney . . . . . (N25,N27) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Infections of kidney . . . . . (N10–N12,N13.6,N15.1) | 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 | * | * | * | * | * | * |
| Hyperplasia of prostate . . . . . (N40) | 0.2 | 0.3 | . . . | 0.2 | 0.4 | . . . | 0.1 | 0.2 | . . . | * | * | . . . | * | * | . . . |
| Inflammatory diseases of female pelvic organs . . . . . (N70–N76) | 0.0 | . . . | 0.1 | 0.0 | . . . | 0.1 | 0.0 | . . . | 0.1 | * | . . . | * | * | . . . | * |
| Pregnancy, childbirth and the puerperium . . . . (O00–O99) | 0.3 | . . . | 0.5 | 0.2 | . . . | 0.4 | 0.6 | . . . | 1.2 | * | . . . | * | 0.2 | . . . | 0.5 |
| Pregnancy with abortive outcome . . . . . (O00–O07) | 0.0 | . . . | 0.0 | * | . . . | * | * | . . . | * | * | . . . | * | * | . . . | * |
| Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99) | 0.3 | . . . | 0.5 | 0.2 | . . . | 0.4 | 0.6 | . . . | 1.1 | * | . . . | * | 0.2 | . . . | 0.5 |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 3.9 | 4.5 | 3.4 | 3.1 | 3.5 | 2.6 | 9.6 | 11.0 | 8.3 | 2.7 | 3.5 | 1.9 | 2.7 | 3.4 | 2.1 |
| Congenital malformations, deformations and chromosomal abnormalities . . . . . (Q00–Q99) | 3.1 | 3.3 | 3.0 | 3.1 | 3.2 | 3.0 | 3.9 | 4.3 | 3.6 | 3.0 | 3.3 | 2.8 | 1.9 | 1.9 | 1.9 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99) | 12.4 | 10.6 | 14.2 | 13.3 | 11.0 | 15.6 | 11.7 | 11.7 | 11.8 | 5.6 | 6.0 | 5.2 | 3.0 | 3.1 | 2.9 |
| All other diseases . . . . . (residual) | 87.4 | 72.2 | 102.1 | 95.9 | 78.2 | 113.3 | 67.8 | 59.2 | 75.7 | 36.3 | 33.8 | 38.9 | 25.4 | 24.0 | 26.6 |
| Accidents (unintentional injuries) . . . . (V01–X59,Y85–Y86) | 39.1 | 50.0 | 28.6 | 42.8 | 53.8 | 31.9 | 28.7 | 40.2 | 18.2 | 39.9 | 53.7 | 26.0 | 12.6 | 16.4 | 9.1 |
| Transport accidents . . . . . (V01–V99,Y85) | 12.3 | 17.6 | 7.1 | 12.9 | 18.4 | 7.5 | 11.3 | 17.0 | 6.1 | 16.0 | 21.6 | 10.5 | 5.2 | 6.8 | 3.8 |
| Motor vehicle accidents . . . . (V02–V04,V09.0,V09.2, V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 11.4 | 16.3 | 6.8 | 12.0 | 17.0 | 7.1 | 10.6 | 15.9 | 5.8 | 15.0 | 19.8 | 10.0 | 4.9 | 6.2 | 3.6 |

See footnotes at end of table.

**Table 14. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Other land transport accidents . . . . . (V01,V05–V06, V09.1,V09.3–V09.9,V10–V11,V15–V18,V19.3, V19.8–V19.9,V80.0–V80.2,V80.6–V80.9,V81.2–V81.9, V82.2–V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) | 0.3 | 0.5 | 0.1 | 0.3 | 0.5 | 0.2 | 0.3 | 0.5 | 0.1 | 0.5 | * | * | 0.2 | 0.3 | * |
| Water, air and space, and other and unspecified transport accidents and their sequelae . . . . . (V90–V99,Y85) | 0.5 | 0.8 | 0.2 | 0.6 | 0.9 | 0.2 | 0.3 | 0.5 | 0.1 | 0.6 | * | * | 0.2 | 0.3 | * |
| Nontransport accidents . . . . . (W00–X59,Y86) | 26.8 | 32.4 | 21.5 | 29.9 | 35.4 | 24.4 | 17.4 | 23.1 | 12.1 | 23.9 | 32.1 | 15.5 | 7.4 | 9.7 | 5.3 |
| Falls . . . . . (W00–W19) | 8.4 | 8.6 | 8.3 | 9.8 | 9.9 | 9.8 | 2.8 | 3.3 | 2.3 | 3.8 | 4.5 | 3.0 | 3.2 | 3.9 | 2.7 |
| Accidental discharge of firearms . . . . . (W32–W34) | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.3 | 0.5 | * | * | * | * | * | * | * |
| Accidental drowning and submersion . . . (W65–W74) | 1.2 | 1.9 | 0.5 | 1.2 | 1.9 | 0.6 | 1.4 | 2.4 | 0.4 | 1.6 | 2.8 | * | 1.0 | 1.6 | 0.5 |
| Accidental exposure to smoke, fire and flames . . . . . (X00–X09) | 0.9 | 1.1 | 0.7 | 0.9 | 1.0 | 0.7 | 1.4 | 1.7 | 1.1 | 1.1 | 1.2 | * | 0.1 | * | * |
| Accidental poisoning and exposure to noxious substances . . . . . (X40–X49) | 10.7 | 13.9 | 7.6 | 11.9 | 15.4 | 8.5 | 7.1 | 9.4 | 5.0 | 12.2 | 15.5 | 8.9 | 1.5 | 2.1 | 0.9 |
| Other and unspecified nontransport accidents and their sequelae . . . . . (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 5.4 | 6.5 | 4.3 | 5.8 | 6.9 | 4.8 | 4.5 | 5.8 | 3.3 | 4.9 | 7.4 | 2.3 | 1.5 | 1.8 | 1.2 |
| Intentional self-harm (suicide) . . . . (*U03,X60–X84,Y87.0) | 12.4 | 19.9 | 5.2 | 14.1 | 22.6 | 5.9 | 5.1 | 8.7 | 1.8 | 11.0 | 16.1 | 5.9 | 6.2 | 9.3 | 3.4 |
| Intentional self-harm (suicide) by discharge of firearms . . . . . (X72–X74) | 6.3 | 11.2 | 1.5 | 7.3 | 12.9 | 1.8 | 2.6 | 4.8 | 0.5 | 4.2 | 6.8 | 1.5 | 1.3 | 2.5 | 0.3 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae . . . . . (*U03,X60–X71, X75–X84,Y87.0) | 6.1 | 8.8 | 3.6 | 6.8 | 9.7 | 4.0 | 2.5 | 3.9 | 1.3 | 6.8 | 9.2 | 4.4 | 4.9 | 6.8 | 3.2 |
| Assault (homicide) . . . . . (*U01–*U02,X85–Y09,Y87.1) | 5.3 | 8.4 | 2.2 | 3.2 | 4.7 | 1.8 | 18.6 | 33.4 | 5.1 | 6.0 | 9.5 | 2.5 | 1.9 | 2.7 | 1.2 |
| Assault (homicide) by discharge of firearms . . . . . (*U01.4,X93–X95) | 3.6 | 6.2 | 1.1 | 1.9 | 2.9 | 0.9 | 14.6 | 27.6 | 2.7 | 2.7 | 4.6 | * | 1.0 | 1.6 | 0.4 |
| Assault (homicide) by other and unspecified means and their sequelae . . . . . (*U01.0–*U01.3, *U01.5–*U01.9,*U02,X85–X92,X96–Y09,Y87.1) | 1.7 | 2.3 | 1.1 | 1.3 | 1.7 | 0.9 | 4.0 | 5.7 | 2.3 | 3.4 | 4.9 | 1.8 | 0.9 | 1.0 | 0.8 |
| Legal intervention . . . . . (Y35,Y89.0) | 0.1 | 0.3 | * | 0.1 | 0.2 | * | 0.2 | 0.5 | * | * | * | * | * | * | * |
| Events of undetermined intent . . . (Y10–Y34,Y87.2,Y89.9) | 1.6 | 1.9 | 1.3 | 1.7 | 2.0 | 1.4 | 1.4 | 1.9 | 1.0 | 2.0 | 2.1 | 1.9 | 0.5 | 0.7 | 0.3 |
| Discharge of firearms, undetermined intent . . (Y22–Y24) | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | * | * | * | * | * | * | * |
| Other and unspecified events of undetermined intent and their sequelae . . . . .(Y10–Y21,Y25–Y34,Y87.2,Y89.9) | 1.5 | 1.8 | 1.2 | 1.6 | 1.9 | 1.3 | 1.3 | 1.8 | 0.9 | 1.9 | 2.0 | 1.8 | 0.5 | 0.6 | 0.3 |
| Operations of war and their sequelae . . . . . (Y36,Y89.1) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Complications of medical and surgical care . . . . . (Y40–Y84,Y88) | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 0.8 | 1.1 | 0.5 | * | * | 0.3 | * | 0.3 |

See footnotes at end of table.

**Table 14. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[4] | 2.4 | 1.9 | 2.8 | 2.7 | 2.2 | 3.3 | 1.2 | 1.0 | 1.3 | 0.9 | 0.9 | * | 0.6 | 0.5 | 0.6 |
| Drug-induced deaths[5,6] . . . . . | 13.1 | 16.1 | 10.2 | 14.7 | 17.9 | 11.5 | 8.5 | 11.0 | 6.2 | 10.7 | 11.7 | 9.8 | 2.1 | 2.7 | 1.5 |
| Alcohol-induced deaths[5,7] . . . . . | 8.3 | 12.5 | 4.2 | 9.0 | 13.6 | 4.5 | 5.5 | 8.4 | 2.9 | 21.8 | 28.5 | 15.1 | 1.6 | 2.6 | 0.6 |
| Injury by firearms[5,8] . . . . . | 10.3 | 18.0 | 2.7 | 9.6 | 16.5 | 2.8 | 17.7 | 33.4 | 3.3 | 7.4 | 12.5 | 2.4 | 2.4 | 4.4 | 0.6 |

0.0 Quantity more than zero but less than 0.05.

* Figure does not meet standards of reliability or precision; see Technical Notes.

. . . Category not applicable.

[1]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[2]Includes Aleuts and Eskimos.

[3]Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

[4]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes; see Technical Notes.

[5]Included in selected categories above.

[6]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[8]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 15. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All causes | 799.5 | 812.0 | 787.4 | 286.2 | 310.8 | 260.9 | 897.6 | 911.1 | 884.7 | 984.3 | 987.5 | 981.2 | 718.7 | 764.5 | 676.9 |
| Salmonella infections (A01–A02) | 0.0 | * | * | * | * | * | 0.0 | * | * | * | * | * | * | * | * |
| Shigellosis and amebiasis (A03,A06) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Certain other intestinal infections (A04,A07–A09) | 3.3 | 2.7 | 4.0 | 1.2 | 1.1 | 1.3 | 3.7 | 3.0 | 4.5 | 4.3 | 3.4 | 5.2 | 2.0 | 1.9 | 2.2 |
| Tuberculosis (A16–A19) | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.5 | 0.2 |
| Respiratory tuberculosis (A16) | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.4 | * |
| Other tuberculosis (A17–A19) | 0.0 | 0.0 | 0.0 | 0.0 | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | * | * |
| Whooping cough (A37) | 0.0 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Scarlet fever and erysipelas (A38,A46) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Meningococcal infection (A39) | 0.0 | 0.0 | 0.0 | 0.0 | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * |
| Septicemia (A40–A41) | 11.3 | 10.6 | 11.9 | 4.0 | 4.0 | 4.1 | 12.7 | 11.9 | 13.4 | 13.0 | 12.2 | 13.7 | 15.1 | 14.2 | 15.9 |
| Syphilis (A50–A53) | 0.0 | 0.0 | * | * | * | * | 0.0 | * | * | * | * | * | * | * | * |
| Acute poliomyelitis (A80) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Measles (B05) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Viral hepatitis (B15–B19) | 2.4 | 3.3 | 1.6 | 2.2 | 3.0 | 1.4 | 2.5 | 3.4 | 1.6 | 2.5 | 3.4 | 1.6 | 2.8 | 3.7 | 1.9 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 2.7 | 4.0 | 1.4 | 2.2 | 3.6 | 0.9 | 2.8 | 4.1 | 1.5 | 1.2 | 2.1 | 0.4 | 11.7 | 15.9 | 7.7 |
| Malaria (B50–B54) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36, A42–A44,A48–A49,A54–A79,A81–A82,A85.0–A85.1, A85.8,A86–B04,B06–B09,B25–B49,B55–B99) | 1.9 | 2.0 | 1.8 | 0.9 | 0.9 | 0.8 | 2.1 | 2.2 | 2.0 | 2.2 | 2.2 | 2.1 | 2.0 | 2.1 | 1.8 |
| Malignant neoplasms (C00–C97) | 186.2 | 198.3 | 174.4 | 61.6 | 64.2 | 59.0 | 210.1 | 225.1 | 195.7 | 230.1 | 245.8 | 215.0 | 165.5 | 178.6 | 153.5 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 2.7 | 3.8 | 1.7 | 0.8 | 1.2 | 0.5 | 3.1 | 4.4 | 1.9 | 3.4 | 4.7 | 2.1 | 2.5 | 3.8 | 1.3 |
| Malignant neoplasm of esophagus (C15) | 4.7 | 7.5 | 2.0 | 1.2 | 1.9 | 0.5 | 5.4 | 8.7 | 2.2 | 6.1 | 9.8 | 2.5 | 3.6 | 5.5 | 1.9 |
| Malignant neoplasm of stomach (C16) | 3.7 | 4.4 | 3.0 | 3.1 | 3.4 | 2.7 | 3.8 | 4.6 | 3.0 | 3.5 | 4.2 | 2.8 | 5.0 | 6.2 | 3.9 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 17.0 | 18.0 | 16.1 | 6.3 | 7.0 | 5.6 | 19.1 | 20.2 | 18.1 | 20.3 | 21.3 | 19.4 | 17.6 | 19.1 | 16.3 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 6.6 | 9.0 | 4.2 | 4.6 | 6.2 | 3.0 | 6.9 | 9.5 | 4.5 | 6.8 | 9.2 | 4.5 | 7.1 | 10.4 | 4.0 |
| Malignant neoplasm of pancreas (C25) | 11.9 | 12.3 | 11.6 | 4.2 | 4.1 | 4.4 | 13.4 | 14.0 | 12.9 | 14.6 | 15.3 | 14.0 | 10.9 | 11.1 | 10.7 |
| Malignant neoplasm of larynx (C32) | 1.2 | 1.9 | 0.5 | 0.4 | 0.7 | 0.1 | 1.3 | 2.2 | 0.5 | 1.4 | 2.3 | 0.6 | 1.5 | 2.5 | 0.6 |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 51.3 | 57.8 | 45.0 | 9.8 | 11.9 | 7.7 | 59.3 | 67.0 | 51.9 | 66.3 | 73.8 | 59.0 | 41.9 | 51.6 | 33.1 |
| Malignant melanoma of skin (C43) | 3.0 | 4.0 | 2.0 | 0.4 | 0.5 | 0.4 | 3.5 | 4.7 | 2.3 | 4.4 | 5.9 | 2.9 | 0.3 | 0.3 | 0.4 |
| Malignant neoplasm of breast (C50) | 13.4 | 0.3 | 26.1 | 4.6 | * | 9.2 | 15.1 | 0.3 | 29.2 | 15.9 | 0.3 | 31.0 | 15.4 | 0.4 | 29.0 |
| Malignant neoplasm of cervix uteri (C53) | 1.3 | . . . | 2.5 | 0.9 | . . . | 1.9 | 1.3 | . . . | 2.6 | 1.3 | . . . | 2.5 | 2.0 | . . . | 3.8 |

See footnotes at end of table.

**Table 15. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Malignant neoplasms of corpus uteri and uterus, part unspecified . . . . . (C54–C55) | 2.7 | . . . | 5.4 | 1.0 | . . . | 2.1 | 3.0 | . . . | 5.9 | 3.1 | . . . | 6.1 | 3.6 | . . . | 6.9 |
| Malignant neoplasm of ovary . . . . . (C56) | 4.7 | . . . | 9.3 | 1.7 | . . . | 3.4 | 5.3 | . . . | 10.4 | 6.0 | . . . | 11.8 | 3.2 | . . . | 6.1 |
| Malignant neoplasm of prostate . . . . . (C61) | 9.3 | 18.8 | . . . | 3.0 | 6.0 | . . . | 10.4 | 21.4 | . . . | 10.8 | 22.0 | . . . | 12.2 | 25.5 | . . . |
| Malignant neoplasms of kidney and renal pelvis. . . . . (C64–C65) | 4.3 | 5.6 | 3.0 | 1.9 | 2.3 | 1.4 | 4.7 | 6.2 | 3.3 | 5.4 | 7.0 | 3.8 | 3.0 | 3.7 | 2.3 |
| Malignant neoplasm of bladder. . . . . (C67) | 4.8 | 6.9 | 2.7 | 1.0 | 1.4 | 0.7 | 5.5 | 8.0 | 3.1 | 6.4 | 9.4 | 3.5 | 2.7 | 3.2 | 2.2 |
| Malignant neoplasms of meninges, brain and other parts of central nervous system . . . . . (C70–C72) | 4.6 | 5.3 | 3.9 | 1.8 | 2.0 | 1.5 | 5.1 | 5.9 | 4.4 | 6.0 | 6.9 | 5.1 | 2.2 | 2.4 | 2.1 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue . . . . . (C81–C96) | 18.0 | 20.3 | 15.8 | 7.2 | 7.7 | 6.7 | 20.1 | 22.8 | 17.5 | 22.5 | 25.5 | 19.5 | 13.7 | 14.8 | 12.6 |
| Hodgkin's disease . . . . . (C81) | 0.4 | 0.5 | 0.3 | 0.3 | 0.3 | 0.2 | 0.4 | 0.5 | 0.4 | 0.5 | 0.6 | 0.4 | 0.3 | 0.3 | 0.3 |
| Non-Hodgkin's lymphoma. . . . . (C82–C85) | 6.6 | 7.3 | 5.9 | 2.6 | 2.8 | 2.5 | 7.3 | 8.2 | 6.5 | 8.4 | 9.3 | 7.5 | 3.8 | 4.3 | 3.3 |
| Leukemia . . . . . (C91–C95) | 7.3 | 8.5 | 6.2 | 2.9 | 3.1 | 2.7 | 8.2 | 9.6 | 6.8 | 9.3 | 10.9 | 7.8 | 4.5 | 5.0 | 4.1 |
| Multiple myeloma and immunoproliferative neoplasms. . . . . (C88,C90) | 3.7 | 4.0 | 3.4 | 1.4 | 1.5 | 1.4 | 4.1 | 4.5 | 3.8 | 4.2 | 4.7 | 3.8 | 5.0 | 5.2 | 4.9 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue . . . . . (C96) | 0.0 | 0.0 | 0.0 | * | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * |
| All other and unspecified malignant neoplasms. . . . . (C17,C23–C24,C26–C31, C37–C41,C44–C49,C51–C52,C57–C60,C62–C63, C66,C68–C69,C73–C80,C97) | 21.0 | 22.5 | 19.5 | 7.6 | 8.0 | 7.2 | 23.6 | 25.4 | 21.8 | 26.1 | 28.1 | 24.1 | 17.1 | 18.0 | 16.3 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior. . . . . (D00–D48) | 4.8 | 5.1 | 4.6 | 1.6 | 1.6 | 1.5 | 5.5 | 5.8 | 5.2 | 6.2 | 6.7 | 5.8 | 3.1 | 2.9 | 3.2 |
| Anemias . . . . . (D50–D64) | 1.6 | 1.3 | 1.8 | 0.5 | 0.5 | 0.5 | 1.8 | 1.5 | 2.1 | 1.8 | 1.4 | 2.1 | 2.5 | 2.3 | 2.7 |
| Diabetes mellitus . . . . . (E10–E14) | 22.4 | 23.4 | 21.4 | 13.0 | 13.2 | 12.8 | 24.1 | 25.4 | 23.0 | 23.9 | 25.5 | 22.2 | 30.4 | 29.6 | 31.1 |
| Nutritional deficiencies . . . . . (E40–E64) | 1.0 | 0.8 | 1.2 | 0.3 | 0.3 | 0.4 | 1.1 | 0.8 | 1.3 | 1.2 | 0.9 | 1.4 | 0.9 | 0.7 | 1.1 |
| Malnutrition . . . . . (E40–E46) | 0.9 | 0.7 | 1.1 | 0.3 | 0.3 | 0.4 | 1.0 | 0.8 | 1.2 | 1.1 | 0.9 | 1.3 | 0.9 | 0.7 | 1.1 |
| Other nutritional deficiencies . . . . . (E50–E64) | 0.1 | 0.0 | 0.1 | * | * | * | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | * | * | * |
| Meningitis. . . . . (G00,G03) | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 |
| Parkinson's disease. . . . . (G20–G21) | 7.1 | 8.5 | 5.8 | 1.9 | 2.2 | 1.7 | 8.1 | 9.8 | 6.6 | 9.9 | 11.8 | 8.1 | 2.0 | 2.4 | 1.7 |
| Alzheimer's disease. . . . . (G30) | 27.0 | 16.7 | 37.0 | 6.8 | 4.6 | 9.1 | 31.0 | 19.2 | 42.3 | 36.7 | 22.6 | 50.3 | 13.1 | 7.8 | 17.9 |
| Major cardiovascular diseases. . . . . (I00–I78) | 252.7 | 252.7 | 252.7 | 79.5 | 82.8 | 76.2 | 285.8 | 286.3 | 285.3 | 313.1 | 310.9 | 315.2 | 232.8 | 239.2 | 227.0 |
| Diseases of heart. . . . . (I00–I09,I11,I13,I20–I51) | 193.6 | 202.5 | 184.9 | 59.4 | 64.1 | 54.6 | 219.2 | 229.9 | 209.0 | 241.8 | 251.8 | 232.2 | 173.0 | 183.9 | 163.0 |
| Acute rheumatic fever and chronic rheumatic heart diseases . . . . . (I00–I09) | 1.0 | 0.7 | 1.3 | 0.3 | 0.2 | 0.4 | 1.1 | 0.7 | 1.4 | 1.2 | 0.8 | 1.6 | 0.6 | 0.4 | 0.7 |
| Hypertensive heart disease . . . . . (I11) | 10.9 | 10.7 | 11.1 | 4.1 | 4.6 | 3.7 | 12.2 | 11.9 | 12.4 | 11.5 | 10.7 | 12.2 | 19.3 | 21.3 | 17.5 |

See footnotes at end of table.

**Table 15. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Hypertensive heart and renal disease (I13) | 0.9 | 0.8 | 1.0 | 0.4 | 0.4 | 0.4 | 1.0 | 0.9 | 1.1 | 0.9 | 0.8 | 1.0 | 1.9 | 2.0 | 1.8 |
| Ischemic heart diseases (I20–I25) | 122.9 | 136.8 | 109.6 | 40.6 | 45.1 | 36.0 | 138.6 | 154.8 | 123.1 | 154.6 | 172.4 | 137.5 | 99.0 | 107.8 | 91.0 |
| Acute myocardial infarction (I21–I22) | 39.5 | 44.4 | 34.8 | 13.0 | 14.5 | 11.4 | 44.6 | 50.4 | 39.1 | 49.8 | 56.3 | 43.4 | 31.9 | 33.8 | 30.2 |
| Other acute ischemic heart diseases (I24) | 1.4 | 1.4 | 1.3 | 0.3 | 0.2 | 0.3 | 1.6 | 1.7 | 1.5 | 1.7 | 1.8 | 1.6 | 1.4 | 1.6 | 1.2 |
| Other forms of chronic ischemic heart disease (I20,I25) | 82.0 | 90.9 | 73.5 | 27.4 | 30.3 | 24.3 | 92.4 | 102.8 | 82.5 | 103.2 | 114.3 | 92.4 | 65.7 | 72.4 | 59.6 |
| Atherosclerotic cardiovascular disease, so described (I25.0) | 18.6 | 22.2 | 15.1 | 6.8 | 8.8 | 4.7 | 20.8 | 24.7 | 17.0 | 21.9 | 25.8 | 18.1 | 20.8 | 25.7 | 16.4 |
| All other forms of chronic ischemic heart disease (I20,I25.1–I25.9) | 63.4 | 68.7 | 58.4 | 20.6 | 21.5 | 19.6 | 71.6 | 78.1 | 65.5 | 81.3 | 88.5 | 74.3 | 44.8 | 46.7 | 43.1 |
| Other heart diseases (I26–I51) | 57.9 | 53.6 | 62.0 | 14.0 | 13.8 | 14.1 | 66.3 | 61.5 | 71.0 | 73.6 | 67.1 | 79.9 | 52.2 | 52.4 | 52.0 |
| Acute and subacute endocarditis (I33) | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.3 | 0.5 | 0.5 | 0.4 |
| Diseases of pericardium and acute myocarditis (I30–I31,I40) | 0.3 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Heart failure (I50) | 18.7 | 16.1 | 21.3 | 4.0 | 3.7 | 4.4 | 21.6 | 18.6 | 24.4 | 24.6 | 20.9 | 28.2 | 13.9 | 12.9 | 14.9 |
| All other forms of heart disease (I26–I28, I34–I38,I42–I49,I51) | 38.6 | 36.8 | 40.2 | 9.7 | 9.9 | 9.5 | 44.1 | 42.2 | 45.9 | 48.3 | 45.4 | 51.1 | 37.5 | 38.6 | 36.5 |
| Essential hypertension and hypertensive renal disease (I10,I12,I15) | 8.6 | 7.1 | 10.1 | 3.4 | 3.0 | 3.8 | 9.6 | 8.0 | 11.2 | 9.4 | 7.6 | 11.2 | 12.8 | 11.7 | 13.9 |
| Cerebrovascular diseases (I60–I69) | 41.9 | 34.5 | 49.1 | 14.4 | 13.2 | 15.7 | 47.2 | 38.8 | 55.3 | 50.9 | 40.7 | 60.8 | 40.1 | 36.6 | 43.4 |
| Atherosclerosis (I70) | 2.3 | 1.9 | 2.7 | 0.5 | 0.5 | 0.6 | 2.7 | 2.2 | 3.1 | 3.1 | 2.5 | 3.7 | 1.5 | 1.3 | 1.6 |
| Other diseases of circulatory system (I71–I78) | 6.2 | 6.6 | 5.8 | 1.8 | 2.1 | 1.5 | 7.1 | 7.5 | 6.6 | 7.8 | 8.3 | 7.4 | 5.4 | 5.6 | 5.1 |
| Aortic aneurysm and dissection (I71) | 3.4 | 4.0 | 2.8 | 0.9 | 1.2 | 0.6 | 3.9 | 4.6 | 3.2 | 4.3 | 5.1 | 3.6 | 2.4 | 2.9 | 2.0 |
| Other diseases of arteries, arterioles and capillaries (I72–I78) | 2.8 | 2.6 | 3.1 | 0.9 | 0.9 | 0.9 | 3.2 | 2.9 | 3.5 | 3.5 | 3.1 | 3.8 | 2.9 | 2.7 | 3.1 |
| Other disorders of circulatory system (I80–I99) | 1.4 | 1.4 | 1.4 | 0.5 | 0.5 | 0.5 | 1.5 | 1.5 | 1.6 | 1.6 | 1.5 | 1.6 | 1.9 | 2.0 | 1.8 |
| Influenza and pneumonia (J09–J18) | 16.2 | 15.6 | 16.9 | 6.0 | 6.1 | 5.9 | 18.2 | 17.4 | 18.9 | 20.1 | 19.0 | 21.2 | 12.3 | 12.4 | 12.2 |
| Influenza (J09–J11) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Pneumonia (J12–J18) | 16.1 | 15.4 | 16.7 | 5.8 | 5.9 | 5.7 | 18.0 | 17.3 | 18.7 | 19.9 | 18.8 | 21.1 | 12.1 | 12.3 | 12.0 |
| Other acute lower respiratory infections (J20–J22,U04) | 0.1 | 0.1 | 0.1 | * | * | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * |
| Acute bronchitis and bronchiolitis (J20–J21) | 0.1 | 0.0 | 0.1 | * | * | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * |
| Other and unspecified acute lower respiratory infections (J22,U04) | 0.0 | 0.0 | * | * | * | * | 0.0 | * | * | 0.0 | * | * | * | * | * |
| Chronic lower respiratory diseases (J40–J47) | 44.7 | 43.1 | 46.3 | 8.3 | 8.5 | 8.0 | 51.7 | 50.0 | 53.4 | 61.4 | 58.3 | 64.4 | 21.8 | 23.8 | 20.0 |
| Bronchitis, chronic and unspecified (J40–J42) | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 |
| Emphysema (J43) | 3.2 | 3.4 | 3.1 | 0.5 | 0.6 | 0.4 | 3.8 | 4.0 | 3.6 | 4.5 | 4.7 | 4.4 | 1.5 | 1.9 | 1.1 |
| Asthma (J45–J46) | 1.1 | 0.8 | 1.4 | 0.6 | 0.5 | 0.7 | 1.2 | 0.9 | 1.5 | 1.0 | 0.7 | 1.4 | 2.2 | 2.1 | 2.2 |
| Other chronic lower respiratory diseases (J44,J47) | 40.2 | 38.6 | 41.7 | 7.1 | 7.3 | 6.9 | 46.5 | 44.9 | 48.1 | 55.6 | 52.8 | 58.3 | 18.0 | 19.7 | 16.6 |

See footnotes at end of table.

**Table 15. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Pneumoconioses and chemical effects . . . . . (J60–J66,J68) | 0.3 | 0.5 | 0.0 | 0.0 | 0.1 | * | 0.3 | 0.6 | 0.0 | 0.4 | 0.8 | 0.0 | 0.1 | 0.2 | * |
| Pneumonitis due to solids and liquids . . . . . (J69) | 5.5 | 6.1 | 5.0 | 1.4 | 1.5 | 1.2 | 6.3 | 7.0 | 5.7 | 7.3 | 8.0 | 6.6 | 3.5 | 3.8 | 3.2 |
| Other diseases of respiratory system . . . . . (J00–J06, J30–J39,J67,J70–J98) | 10.1 | 10.4 | 9.8 | 4.0 | 4.0 | 4.1 | 11.3 | 11.7 | 10.9 | 12.7 | 13.2 | 12.2 | 7.4 | 7.2 | 7.5 |
| Peptic ulcer . . . . . (K25–K28) | 1.0 | 1.0 | 1.0 | 0.3 | 0.3 | 0.3 | 1.1 | 1.1 | 1.1 | 1.2 | 1.2 | 1.3 | 0.7 | 0.9 | 0.6 |
| Diseases of appendix . . . . . (K35–K38) | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | * | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | * |
| Hernia . . . . . (K40–K46) | 0.6 | 0.5 | 0.6 | 0.2 | 0.2 | 0.3 | 0.7 | 0.6 | 0.7 | 0.8 | 0.7 | 0.8 | 0.4 | 0.4 | 0.4 |
| Chronic liver disease and cirrhosis . . . . . (K70,K73–K74) | 10.3 | 13.7 | 7.1 | 8.6 | 12.0 | 5.2 | 10.6 | 14.0 | 7.4 | 11.8 | 15.5 | 8.2 | 6.6 | 9.0 | 4.4 |
| Alcoholic liver disease . . . . . (K70) | 5.2 | 7.5 | 2.9 | 4.7 | 7.6 | 1.8 | 5.2 | 7.5 | 3.1 | 5.8 | 8.3 | 3.4 | 3.1 | 4.3 | 1.9 |
| Other chronic liver disease and cirrhosis . . . . (K73–K74) | 5.2 | 6.2 | 4.2 | 3.9 | 4.4 | 3.3 | 5.4 | 6.5 | 4.3 | 6.0 | 7.2 | 4.9 | 3.5 | 4.7 | 2.5 |
| Cholelithiasis and other disorders of gallbladder . . . . . (K80–K82) | 1.1 | 1.0 | 1.1 | 0.5 | 0.5 | 0.5 | 1.2 | 1.1 | 1.3 | 1.3 | 1.3 | 1.4 | 0.8 | 0.6 | 0.9 |
| Nephritis, nephrotic syndrome and nephrosis . . . . . (N00–N07,N17–N19,N25–N27) | 16.3 | 16.4 | 16.3 | 6.4 | 6.5 | 6.4 | 18.2 | 18.3 | 18.2 | 18.5 | 18.8 | 18.1 | 22.2 | 21.2 | 23.2 |
| Acute and rapidly progressive nephritic and nephrotic syndrome . . . . . (N00–N01,N04) | 0.1 | 0.1 | 0.1 | * | * | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified . . . . . (N02–N03,N05–N07,N26) | 1.9 | 1.8 | 2.0 | 0.6 | 0.6 | 0.7 | 2.1 | 2.1 | 2.2 | 2.2 | 2.1 | 2.3 | 2.4 | 2.3 | 2.5 |
| Renal failure . . . . . (N17–N19) | 14.4 | 14.5 | 14.3 | 5.8 | 5.9 | 5.7 | 16.0 | 16.2 | 15.8 | 16.2 | 16.6 | 15.8 | 19.8 | 18.8 | 20.6 |
| Other disorders of kidney . . . . . (N25,N27) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Infections of kidney . . . . . (N10–N12,N13.6,N15.1) | 0.2 | 0.1 | 0.3 | 0.1 | * | 0.1 | 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | 0.3 | 0.2 | 0.1 | 0.2 |
| Hyperplasia of prostate . . . . . (N40) | 0.2 | 0.3 | . . . | 0.1 | 0.1 | . . . | 0.2 | 0.4 | . . . | 0.2 | 0.4 | . . . | 0.1 | 0.2 | . . . |
| Inflammatory diseases of female pelvic organs . . (N70–N76) | 0.0 | . . . | 0.1 | * | . . . | * | 0.0 | . . . | 0.1 | 0.1 | . . . | 0.1 | 0.1 | . . . | 0.1 |
| Pregnancy, childbirth and the puerperium . . . . (O00–O99) | 0.3 | . . . | 0.5 | 0.3 | . . . | 0.6 | 0.3 | . . . | 0.5 | 0.2 | . . . | 0.4 | 0.7 | . . . | 1.3 |
| Pregnancy with abortive outcome . . . . . (O00–O07) | 0.0 | . . . | 0.0 | * | . . . | * | 0.0 | . . . | 0.0 | * | . . . | * | * | . . . | * |
| Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99) | 0.3 | . . . | 0.5 | 0.3 | . . . | 0.6 | 0.2 | . . . | 0.5 | 0.2 | . . . | 0.3 | 0.6 | . . . | 1.2 |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 3.9 | 4.5 | 3.4 | 5.0 | 5.7 | 4.3 | 3.7 | 4.2 | 3.2 | 2.5 | 2.9 | 2.2 | 9.8 | 11.2 | 8.4 |
| Congenital malformations, deformations and chromosomal abnormalities . . . . . (Q00–Q99) | 3.1 | 3.3 | 3.0 | 3.5 | 3.5 | 3.6 | 3.0 | 3.2 | 2.9 | 2.9 | 3.0 | 2.8 | 4.1 | 4.5 | 3.7 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99) | 12.4 | 10.6 | 14.2 | 4.1 | 4.2 | 4.0 | 14.0 | 11.8 | 16.1 | 15.3 | 12.4 | 18.0 | 12.3 | 12.2 | 12.3 |
| All other diseases . . . . . (residual) | 87.4 | 72.2 | 102.1 | 27.7 | 25.6 | 29.8 | 98.9 | 81.4 | 115.6 | 110.6 | 89.8 | 130.8 | 71.6 | 62.5 | 79.9 |
| Accidents (unintentional injuries) . . . . (V01–X59,Y85–Y86) | 39.1 | 50.0 | 28.6 | 20.8 | 29.6 | 11.6 | 42.6 | 53.9 | 31.7 | 47.2 | 58.7 | 36.0 | 30.1 | 42.1 | 19.1 |
| Transport accidents . . . . . (V01–V99,Y85) | 12.3 | 17.6 | 7.1 | 9.5 | 13.7 | 5.1 | 12.8 | 18.4 | 7.5 | 13.4 | 19.2 | 7.9 | 11.8 | 17.9 | 6.4 |

See footnotes at end of table.

**Table 15. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Motor vehicle accidents. . . . . (V02–V04,V09.0, V09.2,V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 11.4 | 16.3 | 6.8 | 8.9 | 12.8 | 4.9 | 11.9 | 16.9 | 7.1 | 12.4 | 17.6 | 7.5 | 11.2 | 16.7 | 6.1 |
| Other land transport accidents. . . . . (V01,V05–V06, V09.1,V09.3–V09.9,V10–V11,V15–V18,V19.3, V19.8–V19.9,V80.0–V80.2,V80.6–V80.9,V81.2–V81.9, V82.2–V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) | 0.3 | 0.5 | 0.1 | 0.3 | 0.6 | 0.1 | 0.3 | 0.5 | 0.2 | 0.3 | 0.5 | 0.2 | 0.3 | 0.6 | 0.1 |
| Water, air and space, and other and unspecified transport accidents and their sequelae. . . . . (V90–V99,Y85) | 0.5 | 0.8 | 0.2 | 0.2 | 0.3 | * | 0.6 | 0.9 | 0.2 | 0.7 | 1.0 | 0.3 | 0.3 | 0.6 | 0.1 |
| Nontransport accidents . . . . . (W00–X59,Y86) | 26.8 | 32.4 | 21.5 | 11.3 | 15.9 | 6.5 | 29.8 | 35.6 | 24.3 | 33.8 | 39.5 | 28.2 | 18.2 | 24.3 | 12.7 |
| Falls . . . . . (W00–W19) | 8.4 | 8.6 | 8.3 | 2.5 | 3.1 | 1.9 | 9.6 | 9.7 | 9.4 | 11.4 | 11.4 | 11.5 | 2.9 | 3.5 | 2.4 |
| Accidental discharge of firearms. . . . . (W32–W34) | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | * | 0.2 | 0.4 | 0.1 | 0.2 | 0.4 | 0.1 | 0.3 | 0.5 | * |
| Accidental drowning and submersion. . . . (W65–W74) | 1.2 | 1.9 | 0.5 | 1.0 | 1.7 | 0.3 | 1.3 | 2.0 | 0.6 | 1.2 | 1.9 | 0.6 | 1.4 | 2.4 | 0.4 |
| Accidental exposure to smoke, fire and flames . . . . . (X00–X09) | 0.9 | 1.1 | 0.7 | 0.3 | 0.4 | 0.2 | 1.0 | 1.2 | 0.8 | 1.0 | 1.1 | 0.8 | 1.4 | 1.8 | 1.2 |
| Accidental poisoning and exposure to noxious substances . . . . . (X40–X49) | 10.7 | 13.9 | 7.6 | 5.2 | 7.5 | 2.7 | 11.7 | 15.1 | 8.5 | 13.3 | 17.0 | 9.7 | 7.4 | 9.9 | 5.2 |
| Other and unspecified nontransport accidents and their sequelae. . . . . (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 5.4 | 6.5 | 4.3 | 2.2 | 3.0 | 1.3 | 6.0 | 7.2 | 4.9 | 6.6 | 7.8 | 5.5 | 4.7 | 6.1 | 3.5 |
| Intentional self-harm (suicide) . . . . . (*U03,X60–X84,Y87.0) | 12.4 | 19.9 | 5.2 | 5.3 | 8.5 | 2.0 | 13.8 | 22.2 | 5.7 | 16.0 | 25.7 | 6.7 | 5.3 | 9.1 | 1.8 |
| Intentional self-harm (suicide) by discharge of firearms. . . . . (X72–X74) | 6.3 | 11.2 | 1.5 | 1.9 | 3.4 | 0.4 | 7.1 | 12.7 | 1.8 | 8.5 | 15.0 | 2.1 | 2.7 | 5.0 | 0.5 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae. . . . . (*U03,X60–X71, X75–X84,Y87.0) | 6.1 | 8.8 | 3.6 | 3.4 | 5.1 | 1.6 | 6.7 | 9.5 | 4.0 | 7.5 | 10.6 | 4.5 | 2.6 | 4.1 | 1.3 |
| Assault (homicide). . . . . (*U01–*U02,X85–Y09,Y87.1) | 5.3 | 8.4 | 2.2 | 5.7 | 9.5 | 1.8 | 5.1 | 8.1 | 2.3 | 2.5 | 3.3 | 1.7 | 19.5 | 35.0 | 5.3 |
| Assault (homicide) by discharge of firearms. . . . . (*U01.4,X93–X95) | 3.6 | 6.2 | 1.1 | 3.8 | 6.7 | 0.9 | 3.5 | 6.0 | 1.1 | 1.4 | 1.9 | 0.9 | 15.3 | 29.0 | 2.9 |
| Assault (homicide) by other and unspecified means and their sequelae . . . . . (*U01.0–*U01.3,*U01.5–*U01.9, *U02,X85–X92,X96–Y09,Y87.1) | 1.7 | 2.3 | 1.1 | 1.9 | 2.8 | 1.0 | 1.6 | 2.1 | 1.1 | 1.1 | 1.4 | 0.9 | 4.1 | 6.0 | 2.5 |
| Legal intervention . . . . . (Y35,Y89.0) | 0.1 | 0.3 | * | 0.1 | 0.3 | * | 0.1 | 0.3 | * | 0.1 | 0.2 | * | 0.2 | 0.5 | * |
| Events of undetermined intent. . . . (Y10–Y34,Y87.2,Y89.9) | 1.6 | 1.9 | 1.3 | 0.7 | 0.9 | 0.4 | 1.8 | 2.1 | 1.4 | 1.9 | 2.2 | 1.6 | 1.5 | 2.0 | 1.0 |
| Discharge of firearms, undetermined intent. . . (Y22–Y24) | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | * | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.0 | 0.1 | 0.1 | * |

See footnotes at end of table.

**Table 15. Death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Rates per 100,000 population in specified group. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Other and unspecified events of undetermined intent and their sequelae. . . . . (Y10–Y21, Y25–Y34,Y87.2,Y89.9) | 1.5 | 1.8 | 1.2 | 0.6 | 0.9 | 0.4 | 1.7 | 2.0 | 1.4 | 1.8 | 2.1 | 1.5 | 1.4 | 1.9 | 1.0 |
| Operations of war and their sequelae . . . . . (Y36,Y89.1) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Complications of medical and surgical care. (Y40–Y84,Y88) | 0.8 | 0.8 | 0.8 | 0.3 | 0.3 | 0.3 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.0 | 0.9 | 1.1 |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[4] | 2.4 | 1.9 | 2.8 | 0.8 | 0.6 | 0.9 | 2.7 | 2.2 | 3.2 | 3.1 | 2.5 | 3.8 | 1.2 | 1.0 | 1.4 |
| Drug-induced deaths[5,6] . . . . . | 13.1 | 16.1 | 10.2 | 5.5 | 7.6 | 3.4 | 14.5 | 17.7 | 11.4 | 16.6 | 20.0 | 13.2 | 8.9 | 11.5 | 6.5 |
| Alcohol-induced deaths[5,7] . . . . . | 8.3 | 12.5 | 4.2 | 6.6 | 10.8 | 2.3 | 8.6 | 12.8 | 4.6 | 9.4 | 14.0 | 5.0 | 5.8 | 8.8 | 3.1 |
| Injury by firearms[5,8] . . . . . | 10.3 | 18.0 | 2.7 | 6.0 | 10.5 | 1.3 | 11.0 | 19.4 | 3.0 | 10.2 | 17.6 | 3.1 | 18.6 | 35.1 | 3.5 |

0.0 Quantity more than zero but less than 0.05.

* Figure does not meet standards of reliability or precision; see Technical Notes.

. . . Category not applicable.

[1]Figures for origin not stated are included in "All origins" but not distributed among specified origins.

[2]Includes races other than white and black.

[3]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[4]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes; see Technical Notes.

[5]Included in selected categories above.

[6]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[8]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 16. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All causes | 747.0 | 887.1 | 634.9 | 741.8 | 878.5 | 630.8 | 898.2 | 1,104.0 | 752.5 | 628.3 | 730.2 | 541.7 | 424.3 | 512.1 | 359.0 |
| Salmonella infections (A01–A02) | 0.0 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Shigellosis and amebiasis (A03,A06) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Certain other intestinal infections (A04,A07–A09) | 3.1 | 3.1 | 3.2 | 3.2 | 3.1 | 3.3 | 2.6 | 2.9 | 2.5 | 3.0 | 4.1 | 2.5 | 1.3 | 1.4 | 1.2 |
| Tuberculosis (A16–A19) | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.3 | 0.6 | 0.2 | * | * | * | 0.8 | 1.1 | 0.5 |
| Respiratory tuberculosis (A16) | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.5 | 0.1 | * | * | * | 0.6 | 1.0 | 0.4 |
| Other tuberculosis (A17–A19) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | * | * | * | * | * | * | * | * |
| Whooping cough (A37) | 0.0 | * | * | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Scarlet fever and erysipelas (A38,A46) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Meningococcal infection (A39) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * |
| Septicemia (A40–A41) | 10.6 | 11.7 | 9.7 | 9.8 | 10.9 | 9.0 | 19.4 | 22.0 | 17.9 | 10.5 | 9.8 | 10.7 | 5.0 | 6.2 | 4.2 |
| Syphilis (A50–A53) | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Acute poliomyelitis (A80) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Measles (B05) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Viral hepatitis (B15–B19) | 2.1 | 2.9 | 1.4 | 2.1 | 2.9 | 1.3 | 2.8 | 3.9 | 1.9 | 2.8 | 3.6 | 1.9 | 2.1 | 2.5 | 1.8 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 2.6 | 3.8 | 1.4 | 1.4 | 2.3 | 0.5 | 11.6 | 16.5 | 7.5 | 1.6 | 2.6 | * | 0.4 | 0.7 | * |
| Malaria (B50–B54) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36,A42–A44, A48–A49,A54–A79,A81–A82,A85.0–A85.1,A85.8, A86–B04,B06–B09,B25–B49,B55–B99) | 1.8 | 2.1 | 1.5 | 1.7 | 2.0 | 1.5 | 2.3 | 2.8 | 1.9 | 1.9 | 2.1 | 1.6 | 1.3 | 1.6 | 1.1 |
| Malignant neoplasms (C00–C97) | 172.8 | 209.9 | 146.7 | 172.4 | 208.2 | 146.9 | 203.8 | 264.8 | 167.1 | 122.4 | 151.0 | 102.0 | 108.9 | 131.0 | 93.5 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 2.5 | 3.8 | 1.4 | 2.5 | 3.7 | 1.4 | 2.8 | 4.8 | 1.4 | 1.5 | 2.1 | * | 2.0 | 2.9 | 1.3 |
| Malignant neoplasm of esophagus (C15) | 4.3 | 7.6 | 1.6 | 4.4 | 7.8 | 1.6 | 4.2 | 7.4 | 2.0 | 2.5 | 4.2 | * | 1.7 | 3.0 | 0.7 |
| Malignant neoplasm of stomach (C16) | 3.4 | 4.6 | 2.5 | 3.0 | 4.0 | 2.2 | 6.3 | 9.3 | 4.4 | 3.5 | 5.1 | 2.3 | 6.1 | 8.3 | 4.6 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 15.8 | 19.0 | 13.3 | 15.3 | 18.4 | 12.9 | 21.8 | 27.8 | 17.9 | 11.7 | 14.2 | 9.8 | 11.4 | 13.3 | 9.9 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 6.0 | 8.8 | 3.6 | 5.5 | 8.1 | 3.3 | 7.8 | 12.4 | 4.3 | 7.8 | 12.1 | 4.2 | 10.0 | 14.8 | 6.1 |
| Malignant neoplasm of pancreas (C25) | 11.0 | 12.8 | 9.6 | 10.9 | 12.7 | 9.5 | 13.7 | 15.8 | 12.1 | 7.1 | 8.1 | 6.1 | 7.8 | 8.1 | 7.5 |
| Malignant neoplasm of larynx (C32) | 1.1 | 2.0 | 0.4 | 1.1 | 1.9 | 0.4 | 1.8 | 3.4 | 0.7 | 1.1 | 2.1 | * | 0.4 | 0.8 | * |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 47.6 | 60.3 | 38.1 | 48.3 | 60.1 | 39.3 | 51.4 | 73.7 | 36.5 | 33.1 | 41.6 | 26.3 | 24.8 | 33.8 | 18.3 |
| Malignant melanoma of skin (C43) | 2.8 | 4.1 | 1.7 | 3.2 | 4.7 | 2.0 | 0.4 | 0.5 | 0.4 | 0.8 | * | * | 0.4 | 0.4 | 0.4 |
| Malignant neoplasm of breast (C50) | 12.4 | 0.3 | 22.1 | 12.0 | 0.3 | 21.5 | 17.8 | 0.6 | 30.3 | 6.4 | * | 11.5 | 6.7 | * | 11.9 |
| Malignant neoplasm of cervix uteri (C53) | 1.2 | . . . | 2.3 | 1.1 | . . . | 2.1 | 2.2 | . . . | 3.9 | 1.2 | . . . | 2.2 | 1.0 | . . . | 1.7 |

See footnotes at end of table.

**Table 16. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Malignant neoplasms of corpus uteri and uterus, part unspecified . . . (C54–C55) | 2.5 | . . . | 4.5 | 2.3 | . . . | 4.2 | 4.5 | . . . | 7.6 | 1.5 | . . . | 2.7 | 1.7 | . . . | 3.0 |
| Malignant neoplasm of ovary . . . (C56) | 4.4 | . . . | 7.9 | 4.5 | . . . | 8.2 | 3.9 | . . . | 6.7 | 2.9 | . . . | 5.2 | 2.6 | . . . | 4.8 |
| Malignant neoplasm of prostate . . . (C61) | 8.7 | 21.9 | . . . | 8.1 | 20.2 | . . . | 17.2 | 48.0 | . . . | 6.1 | 15.3 | . . . | 3.8 | 9.6 | . . . |
| Malignant neoplasms of kidney and renal pelvis . . . (C64–C65) | 3.9 | 5.7 | 2.5 | 4.1 | 5.9 | 2.6 | 3.6 | 5.2 | 2.6 | 4.7 | 6.9 | 3.0 | 1.9 | 3.0 | 1.2 |
| Malignant neoplasm of bladder . . . (C67) | 4.5 | 7.8 | 2.2 | 4.7 | 8.2 | 2.2 | 3.7 | 5.6 | 2.5 | 2.2 | 3.6 | * | 1.8 | 2.9 | 1.1 |
| Malignant neoplasms of meninges, brain and other parts of central nervous system . . . (C70–C72) | 4.3 | 5.2 | 3.4 | 4.6 | 5.6 | 3.7 | 2.5 | 3.1 | 2.2 | 2.3 | 2.6 | 2.1 | 2.2 | 2.6 | 1.9 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue . . . (C81–C96) | 17.0 | 22.0 | 13.2 | 17.2 | 22.4 | 13.3 | 17.1 | 21.6 | 14.1 | 9.9 | 13.2 | 7.8 | 10.3 | 13.5 | 8.0 |
| Hodgkin's disease . . . (C81) | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.3 | 0.3 | 0.4 | 0.3 | * | * | * | 0.2 | * | * |
| Non-Hodgkin's lymphoma . . . (C82–C85) | 6.2 | 7.9 | 4.9 | 6.4 | 8.1 | 5.1 | 4.6 | 5.9 | 3.7 | 3.1 | 3.6 | 2.6 | 4.1 | 5.1 | 3.4 |
| Leukemia . . . (C91–C95) | 6.9 | 9.2 | 5.2 | 7.2 | 9.6 | 5.4 | 5.7 | 7.3 | 4.6 | 4.4 | 6.4 | 3.3 | 4.2 | 5.5 | 3.3 |
| Multiple myeloma and immunoproliferative neoplasms . . . (C88,C90) | 3.4 | 4.3 | 2.8 | 3.2 | 4.1 | 2.6 | 6.5 | 8.0 | 5.6 | 2.2 | 2.8 | 1.8 | 1.8 | 2.6 | 1.3 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue . . . (C96) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * | * |
| All other and unspecified malignant neoplasms . . . (C17,C23–C24,C26–C31, C37–C41,C44–C49,C51–C52,C57–C60, C62–C63,C66,C68–C69,C73–C80,C97) | 19.5 | 23.9 | 16.3 | 19.7 | 24.1 | 16.3 | 20.8 | 25.5 | 17.7 | 16.1 | 18.5 | 14.4 | 12.2 | 13.8 | 11.0 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior . . . (D00–D48) | 4.6 | 5.8 | 3.7 | 4.7 | 6.0 | 3.8 | 4.0 | 4.5 | 3.6 | 2.7 | 3.4 | 2.0 | 3.0 | 3.6 | 2.6 |
| Anemias . . . (D50–D64) | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.2 | 3.0 | 3.0 | 2.9 | * | * | * | 0.7 | 0.8 | 0.6 |
| Diabetes mellitus . . . (E10–E14) | 20.8 | 24.9 | 17.6 | 19.0 | 23.1 | 15.6 | 38.7 | 43.6 | 35.1 | 36.4 | 39.2 | 34.1 | 15.5 | 18.0 | 13.6 |
| Nutritional deficiencies . . . (E40–E64) | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.9 | 1.3 | 1.2 | 1.3 | 1.6 | * | 1.8 | 0.5 | 0.5 | 0.4 |
| Malnutrition . . . (E40–E46) | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.2 | 1.2 | 1.3 | 1.5 | * | * | 0.4 | 0.5 | 0.4 |
| Other nutritional deficiencies . . . (E50–E64) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * | * | * | * | * | * |
| Meningitis . . . (G00,G03) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.4 | 0.4 | 0.4 | * | * | * | 0.1 | * | * |
| Parkinson's disease . . . (G20–G21) | 6.8 | 10.4 | 4.6 | 7.3 | 11.0 | 4.9 | 3.0 | 4.9 | 2.1 | 3.8 | 6.1 | 2.2 | 3.6 | 4.9 | 2.7 |
| Alzheimer's disease . . . (G30) | 25.1 | 21.0 | 27.3 | 26.0 | 21.7 | 28.4 | 20.6 | 17.9 | 21.7 | 17.2 | 14.4 | 18.6 | 10.9 | 9.0 | 12.2 |
| Major cardiovascular diseases . . . (I00–I78) | 234.2 | 282.0 | 196.1 | 229.6 | 277.1 | 191.1 | 304.1 | 366.6 | 258.5 | 169.1 | 200.3 | 142.8 | 145.9 | 175.6 | 123.4 |
| Diseases of heart . . . (I00–I09,I11,I13,I20–I51) | 179.1 | 225.1 | 143.3 | 176.9 | 222.9 | 140.4 | 224.9 | 280.6 | 185.3 | 128.6 | 158.7 | 103.5 | 100.9 | 127.2 | 81.2 |
| Acute rheumatic fever and chronic rheumatic heart diseases . . . (I00–I09) | 0.9 | 0.7 | 1.0 | 0.9 | 0.8 | 1.0 | 0.7 | 0.5 | 0.8 | * | * | * | 0.8 | 0.5 | 1.0 |
| Hypertensive heart disease . . . (I11) | 10.0 | 11.2 | 8.7 | 8.6 | 9.5 | 7.5 | 23.6 | 29.0 | 19.3 | 6.6 | 8.3 | 5.2 | 5.8 | 6.6 | 5.2 |
| Hypertensive heart and renal disease . . . (I13) | 0.8 | 0.9 | 0.7 | 0.7 | 0.7 | 0.6 | 2.4 | 2.8 | 2.0 | * | * | * | 0.7 | 0.7 | 0.7 |
| Ischemic heart diseases . . . (I20–I25) | 113.6 | 151.3 | 84.9 | 113.5 | 151.9 | 83.8 | 131.2 | 169.0 | 104.9 | 84.9 | 109.6 | 64.9 | 68.7 | 91.0 | 52.2 |

See footnotes at end of table.

**Table 16. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Acute myocardial infarction . . . . . (I21–I22) | 36.5 | 48.0 | 27.5 | 36.6 | 48.5 | 27.1 | 41.8 | 51.8 | 34.7 | 26.8 | 35.3 | 20.0 | 22.1 | 28.9 | 16.9 |
| Other acute ischemic heart diseases . . . . . (I24) | 1.3 | 1.5 | 1.0 | 1.2 | 1.5 | 1.0 | 1.7 | 2.2 | 1.4 | 1.6 | 1.9 | * | 0.5 | 0.7 | 0.3 |
| Other forms of chronic ischemic heart disease . . . . . (I20,I25) | 75.9 | 101.8 | 56.4 | 75.7 | 101.9 | 55.7 | 87.6 | 115.0 | 68.8 | 56.5 | 72.5 | 43.6 | 46.2 | 61.4 | 34.9 |
| Atherosclerotic cardiovascular disease, so described . . . . . (I25.0) | 17.0 | 23.1 | 11.8 | 16.3 | 22.2 | 11.3 | 26.0 | 36.6 | 18.4 | 15.7 | 21.2 | 11.2 | 10.0 | 13.4 | 7.3 |
| All other forms of chronic ischemic heart disease . . . . . (I20,I25.1–I25.9) | 58.9 | 78.7 | 44.5 | 59.4 | 79.8 | 44.4 | 61.6 | 78.4 | 50.4 | 40.8 | 51.3 | 32.4 | 36.1 | 48.1 | 27.5 |
| Other heart diseases . . . . . (I26–I51) | 53.7 | 60.9 | 48.0 | 53.1 | 60.1 | 47.5 | 67.1 | 79.2 | 58.4 | 35.4 | 38.9 | 32.0 | 24.9 | 28.4 | 22.1 |
| Acute and subacute endocarditis . . . . . (I33) | 0.3 | 0.4 | 0.3 | 0.3 | 0.4 | 0.2 | 0.5 | 0.6 | 0.4 | * | * | * | 0.1 | * | * |
| Diseases of pericardium and acute myocarditis . . . . . (I30–I31,I40) | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 | * | * | * | 0.1 | * | * |
| Heart failure . . . . . (I50) | 17.3 | 19.2 | 15.9 | 17.4 | 19.2 | 16.0 | 19.3 | 22.3 | 17.3 | 12.7 | 11.8 | 13.1 | 6.7 | 7.1 | 6.4 |
| All other forms of heart disease . . . . . (I26–I28, I34–I38,I42–I49,I51) | 35.9 | 41.0 | 31.6 | 35.2 | 40.1 | 31.0 | 46.9 | 55.9 | 40.4 | 21.9 | 26.2 | 18.3 | 17.8 | 20.9 | 15.4 |
| Essential hypertension and hypertensive renal disease . . . . . (I10,I12,I15) | 8.0 | 8.0 | 7.8 | 7.0 | 7.0 | 6.9 | 17.0 | 18.3 | 15.8 | 6.9 | 6.6 | 7.1 | 7.5 | 7.6 | 7.5 |
| Cerebrovascular diseases . . . . . (I60–I69) | 39.1 | 39.3 | 38.3 | 37.7 | 37.6 | 37.2 | 53.0 | 56.6 | 49.6 | 28.1 | 29.8 | 26.5 | 33.2 | 35.2 | 31.4 |
| Atherosclerosis . . . . . (I70) | 2.2 | 2.3 | 2.0 | 2.2 | 2.3 | 2.1 | 2.1 | 2.4 | 1.9 | * | * | * | 1.0 | 1.3 | 0.8 |
| Other diseases of circulatory system . . . . . (I71–I78) | 5.8 | 7.3 | 4.7 | 5.8 | 7.3 | 4.6 | 7.1 | 8.7 | 5.9 | 4.4 | 4.5 | 4.3 | 3.3 | 4.3 | 2.5 |
| Aortic aneurysm and dissection . . . . . (I71) | 3.2 | 4.4 | 2.3 | 3.2 | 4.5 | 2.3 | 3.0 | 4.0 | 2.3 | 2.5 | 3.0 | 2.1 | 2.3 | 3.1 | 1.7 |
| Other diseases of arteries, arterioles and capillaries . . . . . (I72–I78) | 2.6 | 2.9 | 2.4 | 2.6 | 2.8 | 2.3 | 4.0 | 4.7 | 3.6 | 1.9 | * | 2.2 | 1.0 | 1.2 | 0.8 |
| Other disorders of circulatory system . . . . . (I80–I99) | 1.3 | 1.4 | 1.2 | 1.2 | 1.3 | 1.1 | 2.2 | 2.6 | 2.0 | 0.8 | * | * | 0.6 | 0.9 | 0.5 |
| Influenza and pneumonia . . . . . (J09–J18) | 15.1 | 18.2 | 13.1 | 14.9 | 17.8 | 13.0 | 16.8 | 21.3 | 14.1 | 15.9 | 19.2 | 13.7 | 14.4 | 19.1 | 11.3 |
| Influenza . . . . . (J09–J11) | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | * | * | * | * | * | * |
| Pneumonia . . . . . (J12–J18) | 14.9 | 18.0 | 12.9 | 14.7 | 17.6 | 12.8 | 16.7 | 21.1 | 14.0 | 15.8 | 19.1 | 13.6 | 14.3 | 18.9 | 11.2 |
| Other acute lower respiratory infections . . . (J20–J22,U04) | 0.1 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.1 | * | * | * | * | * | * | * | * |
| Acute bronchitis and bronchiolitis . . . . . (J20–J21) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | * | * | * | * | * | * | * | * |
| Other and unspecified acute lower respiratory infections . . . . . (J22,U04) | 0.0 | 0.0 | * | 0.0 | * | * | * | * | * | * | * | * | * | * | * |
| Chronic lower respiratory diseases . . . . . (J40–J47) | 42.2 | 48.7 | 38.0 | 44.6 | 50.6 | 40.8 | 29.0 | 39.8 | 22.8 | 33.8 | 38.8 | 30.3 | 13.9 | 21.0 | 9.1 |
| Bronchitis, chronic and unspecified . . . . . (J40–J42) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 | * | * | * | * | * | * |
| Emphysema . . . . . (J43) | 3.1 | 3.8 | 2.6 | 3.3 | 4.0 | 2.8 | 2.0 | 3.1 | 1.3 | 1.9 | 2.1 | 1.7 | 0.9 | 1.8 | 0.3 |
| Asthma . . . . . (J45–J46) | 1.0 | 0.9 | 1.2 | 0.9 | 0.7 | 1.0 | 2.3 | 2.2 | 2.3 | 0.8 | * | * | 1.0 | 1.3 | 0.9 |
| Other chronic lower respiratory diseases . . . . . (J44,J47) | 37.9 | 43.8 | 34.1 | 40.3 | 45.8 | 36.8 | 24.5 | 34.3 | 19.1 | 31.0 | 35.8 | 27.7 | 11.8 | 17.8 | 7.8 |
| Pneumoconioses and chemical effects . . . . . (J60–J66,J68) | 0.3 | 0.6 | 0.0 | 0.3 | 0.7 | 0.0 | 0.1 | 0.4 | * | * | * | * | * | * | * |
| Pneumonitis due to solids and liquids . . . . . (J69) | 5.1 | 7.3 | 3.8 | 5.2 | 7.4 | 3.9 | 4.9 | 6.9 | 3.7 | 4.0 | 4.2 | 3.7 | 3.0 | 4.4 | 2.1 |
| Other diseases of respiratory system . . . . . (J00–J06, J30–J39,J67,J70–J98) | 9.5 | 11.7 | 8.0 | 9.7 | 11.9 | 8.1 | 9.2 | 11.0 | 8.2 | 11.4 | 12.9 | 10.4 | 5.6 | 6.8 | 4.7 |

See footnotes at end of table.

**Table 16. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Peptic ulcer . . . . . (K25–K28) | 0.9 | 1.0 | 0.8 | 0.9 | 1.0 | 0.8 | 0.9 | 1.3 | 0.7 | 1.0 | * | * | 0.8 | 1.1 | 0.6 |
| Diseases of appendix. . . . . (K35–K38) | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | * | * | * | * | * | * | * |
| Hernia. . . . . (K40–K46) | 0.5 | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | * | * | * | * | * | * |
| Chronic liver disease and cirrhosis . . . . . (K70,K73–K74) | 9.4 | 12.9 | 6.2 | 9.9 | 13.6 | 6.5 | 6.7 | 9.8 | 4.3 | 22.8 | 25.5 | 20.3 | 3.2 | 4.4 | 2.2 |
| Alcoholic liver disease . . . . . (K70) | 4.7 | 7.0 | 2.6 | 5.0 | 7.4 | 2.8 | 3.1 | 4.5 | 1.9 | 16.2 | 20.1 | 12.7 | 1.0 | 1.9 | 0.3 |
| Other chronic liver disease and cirrhosis . . . . (K73–K74) | 4.7 | 5.9 | 3.6 | 4.9 | 6.2 | 3.8 | 3.7 | 5.2 | 2.5 | 6.6 | 5.5 | 7.6 | 2.2 | 2.5 | 1.9 |
| Cholelithiasis and other disorders of gallbladder . . . . . (K80–K82) | 1.0 | 1.2 | 0.9 | 1.0 | 1.2 | 0.9 | 1.1 | 1.2 | 1.0 | 0.8 | * | * | 0.9 | 1.1 | 0.7 |
| Nephritis, nephrotic syndrome and nephrosis . . . . . (N00–N07,N17–N19,N25–N27) | 15.3 | 18.7 | 13.0 | 14.0 | 17.5 | 11.6 | 29.3 | 34.0 | 26.4 | 16.4 | 16.7 | 16.2 | 9.6 | 11.0 | 8.6 |
| Acute and rapidly progressive nephritic and nephrotic syndrome. . . . . (N00–N01,N04) | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | * | * | * | * | * | * | * | * |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified . . . . . (N02–N03,N05–N07,N26) | 1.8 | 2.2 | 1.5 | 1.6 | 2.0 | 1.4 | 3.3 | 4.0 | 2.9 | 2.3 | 2.7 | 2.1 | 1.2 | 1.2 | 1.3 |
| Renal failure. . . . . (N17–N19) | 13.4 | 16.5 | 11.5 | 12.2 | 15.4 | 10.2 | 25.9 | 29.8 | 23.5 | 14.0 | 14.0 | 14.0 | 8.3 | 9.8 | 7.2 |
| Other disorders of kidney . . . . . (N25,N27) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Infections of kidney . . . . . (N10–N12,N13.6,N15.1) | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | * | * | * | * | * | * |
| Hyperplasia of prostate. . . . . (N40) | 0.1 | 0.4 | . . . | 0.1 | 0.4 | . . . | 0.1 | 0.4 | . . . | * | * | . . . | * | * | . . . |
| Inflammatory diseases of female pelvic organs. . . . . (N70–N76) | 0.0 | . . . | 0.1 | 0.0 | . . . | 0.1 | 0.1 | . . . | 0.1 | * | . . . | * | * | . . . | * |
| Pregnancy, childbirth and the puerperium . . . . .(O00–O99) | 0.3 | . . . | 0.6 | 0.2 | . . . | 0.5 | 0.6 | . . . | 1.2 | * | . . . | * | 0.2 | . . . | 0.4 |
| Pregnancy with abortive outcome . . . . . .(O00–O07) | 0.0 | . . . | 0.0 | * | . . . | * | * | . . . | * | * | . . . | * | * | . . . | * |
| Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99) | 0.3 | . . . | 0.5 | 0.2 | . . . | 0.4 | 0.6 | . . . | 1.2 | * | . . . | * | 0.2 | . . . | 0.4 |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 4.2 | 4.7 | 3.8 | 3.5 | 3.8 | 3.1 | 8.3 | 9.0 | 7.6 | 2.1 | 2.7 | 1.5 | 2.9 | 3.3 | 2.4 |
| Congenital malformations, deformations and chromosomal abnormalities. . . . . .(Q00–Q99) | 3.2 | 3.3 | 3.1 | 3.2 | 3.3 | 3.1 | 3.6 | 3.9 | 3.4 | 2.5 | 2.6 | 2.3 | 2.0 | 1.9 | 2.0 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . .(R00–R99) | 11.7 | 11.9 | 11.1 | 11.5 | 11.6 | 11.0 | 14.9 | 16.5 | 13.4 | 8.1 | 8.6 | 7.4 | 4.3 | 4.8 | 3.9 |
| All other diseases. . . . . .(residual) | 81.1 | 80.9 | 79.6 | 81.3 | 80.8 | 79.8 | 94.3 | 98.9 | 90.2 | 65.8 | 63.1 | 66.1 | 38.2 | 40.7 | 36.1 |
| Accidents (unintentional injuries) . . . . (V01–X59,Y85–Y86) | 38.0 | 51.5 | 25.6 | 40.3 | 54.0 | 27.3 | 31.3 | 46.0 | 19.3 | 46.9 | 64.5 | 30.7 | 15.0 | 20.3 | 10.7 |
| Transport accidents . . . . . (V01–V99,Y85) | 12.1 | 17.6 | 6.9 | 12.5 | 18.1 | 7.2 | 11.6 | 17.9 | 6.1 | 16.9 | 23.0 | 11.0 | 5.5 | 7.2 | 4.0 |
| Motor vehicle accidents. . . . . (V02–V04,V09.0,V09.2, V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 11.3 | 16.2 | 6.5 | 11.7 | 16.7 | 6.8 | 10.9 | 16.7 | 5.9 | 15.7 | 21.1 | 10.6 | 5.1 | 6.5 | 3.9 |

See footnotes at end of table.

**Table 16. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Other land transport accidents . . . . . (V01,V05–V06, V09.1,V09.3–V09.9,V10–V11,V15–V18,V19.3,V19.8–V19.9,V80.0–V80.2,V80.6–V80.9,V81.2–V81.9, V82.2–V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) | 0.3 | 0.5 | 0.1 | 0.3 | 0.5 | 0.2 | 0.3 | 0.6 | 0.2 | 0.5 | * | * | 0.2 | 0.3 | * |
| Water, air and space, and other and unspecified transport accidents and their sequelae . . . . . (V90–V99,Y85) | 0.5 | 0.8 | 0.2 | 0.5 | 0.9 | 0.2 | 0.3 | 0.6 | 0.1 | 0.6 | * | * | 0.2 | 0.4 | * |
| Nontransport accidents . . . . . (W00–X59,Y86) | 25.9 | 33.9 | 18.7 | 27.7 | 35.9 | 20.1 | 19.7 | 28.1 | 13.2 | 30.1 | 41.5 | 19.6 | 9.5 | 13.0 | 6.7 |
| Falls . . . . . (W00–W19) | 7.9 | 9.9 | 6.4 | 8.4 | 10.4 | 6.8 | 3.8 | 5.5 | 2.7 | 7.4 | 9.5 | 5.7 | 4.9 | 6.7 | 3.6 |
| Accidental discharge of firearms. . . . . (W32–W34) | 0.2 | 0.3 | 0.1 | 0.2 | 0.3 | 0.1 | 0.2 | 0.5 | * | * | * | * | * | * | * |
| Accidental drowning and submersion . . . . (W65–W74) | 1.2 | 1.9 | 0.5 | 1.2 | 1.9 | 0.6 | 1.3 | 2.3 | 0.4 | 1.6 | 2.8 | * | 1.1 | 1.6 | 0.5 |
| Accidental exposure to smoke, fire and flames . . . . . (X00–X09) | 0.9 | 1.1 | 0.7 | 0.8 | 1.0 | 0.6 | 1.6 | 2.1 | 1.2 | 1.3 | 1.5 | * | 0.2 | * | * |
| Accidental poisoning and exposure to noxious substances . . . . . (X40–X49) | 10.6 | 13.8 | 7.5 | 11.9 | 15.3 | 8.5 | 7.3 | 10.0 | 5.0 | 13.0 | 16.8 | 9.3 | 1.4 | 2.1 | 0.8 |
| Other and unspecified nontransport accidents and their sequelae. . . . . (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 5.2 | 7.0 | 3.6 | 5.2 | 7.1 | 3.6 | 5.5 | 7.7 | 3.7 | 6.5 | 10.3 | 3.2 | 1.9 | 2.5 | 1.5 |
| Intentional self-harm (suicide) . . . . . (*U03,X60–X84,Y87.0) | 12.1 | 19.8 | 5.0 | 13.6 | 22.0 | 5.6 | 5.2 | 9.1 | 1.8 | 10.8 | 15.5 | 6.1 | 6.2 | 9.5 | 3.4 |
| Intentional self-harm (suicide) by discharge of firearms. . . . . (X72–X74) | 6.1 | 11.2 | 1.5 | 6.9 | 12.5 | 1.8 | 2.7 | 5.0 | 0.5 | 4.3 | 6.7 | 1.8 | 1.3 | 2.5 | 0.2 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae . . . . . (*U03,X60–X71, X75–X84,Y87.0) | 6.0 | 8.7 | 3.5 | 6.7 | 9.5 | 3.9 | 2.6 | 4.0 | 1.3 | 6.6 | 8.8 | 4.3 | 4.9 | 7.1 | 3.2 |
| Assault (homicide). . . . . (*U01–*U02,X85–Y09,Y87.1) | 5.3 | 8.4 | 2.3 | 3.3 | 4.7 | 1.8 | 17.7 | 31.5 | 5.0 | 5.7 | 8.8 | 2.5 | 1.8 | 2.6 | 1.2 |
| Assault (homicide) by discharge of firearms. . . . . (*U01.4,X93–X95) | 3.6 | 6.1 | 1.1 | 1.9 | 2.9 | 0.9 | 13.8 | 25.7 | 2.6 | 2.5 | 4.1 | * | 0.9 | 1.5 | 0.3 |
| Assault (homicide) by other and unspecified means and their sequelae . . . . . (*U01.0–*U01.3, *U01.5–*U01.9,*U02,X85–X92,X96–Y09,Y87.1) | 1.7 | 2.2 | 1.1 | 1.3 | 1.7 | 0.9 | 3.9 | 5.7 | 2.3 | 3.2 | 4.7 | 1.8 | 0.9 | 1.0 | 0.8 |
| Legal intervention . . . . . (Y35,Y89.0) | 0.1 | 0.3 | * | 0.1 | 0.2 | * | 0.2 | 0.5 | * | * | * | * | * | * | * |
| Events of undetermined intent. . . . (Y10–Y34,Y87.2,Y89.9) | 1.6 | 1.9 | 1.2 | 1.7 | 2.0 | 1.3 | 1.4 | 2.0 | 1.0 | 2.0 | 2.3 | 1.9 | 0.5 | 0.7 | 0.3 |
| Discharge of firearms, undetermined intent. . . (Y22–Y24) | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | * | * | * | * | * | * | * |
| Other and unspecified events of undetermined intent and their sequelae. . . . . (Y10–Y21,Y25–Y34, Y87.2,Y89.9) | 1.5 | 1.8 | 1.2 | 1.6 | 1.9 | 1.3 | 1.4 | 1.9 | 0.9 | 1.9 | 2.1 | 1.8 | 0.5 | 0.7 | 0.3 |
| Operations of war and their sequelae . . . . . (Y36,Y89.1) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Complications of medical and surgical care . . . . . (Y40–Y84,Y88) | 0.8 | 0.8 | 0.7 | 0.7 | 0.8 | 0.7 | 1.2 | 1.2 | 1.2 | 0.8 | * | * | 0.3 | * | 0.4 |

See footnotes at end of table.

**Table 16. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by race and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Data for specified races other than white and black should be interpreted with caution because of inconsistencies between reporting race on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All races | | | White[1] | | | Black[1] | | | American Indian or Alaska Native[1,2] | | | Asian or Pacific Islander[1,3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[4] | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.3 | 1.7 | 1.9 | 1.6 | 2.0 | 2.8 | * | 0.9 | 1.0 | 0.9 |
| Drug-induced deaths[5,6] . . . . . | 12.9 | 15.9 | 10.0 | 14.6 | 17.7 | 11.4 | 8.7 | 11.6 | 6.2 | 11.4 | 12.3 | 10.4 | 2.0 | 2.7 | 1.5 |
| Alcohol-induced deaths[5,7] . . . . . | 7.6 | 11.7 | 3.9 | 8.0 | 12.2 | 4.0 | 5.9 | 9.6 | 3.0 | 25.4 | 34.9 | 16.7 | 1.6 | 2.8 | 0.5 |
| Injury by firearms[5,8] . . . . . | 10.1 | 17.9 | 2.7 | 9.2 | 16.1 | 2.7 | 16.9 | 31.8 | 3.3 | 7.3 | 11.7 | 2.6 | 2.3 | 4.2 | 0.6 |

0.0 Quantity more than zero but less than 0.05.

* Figure does not meet standards of reliability or precision; see Technical Notes.

. . . Category not applicable.

[1]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[2]Includes Aleuts and Eskimos.

[3]Includes Chinese, Filipino, Hawaiian, Japanese, and other Asian or Pacific Islander persons.

[4]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes; see Technical Notes.

[5]Included in selected categories above.

[6]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[8]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 17. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| All causes | 747.0 | 887.1 | 634.9 | 558.6 | 677.7 | 463.4 | 762.6 | 904.6 | 649.2 | 755.0 | 892.5 | 643.3 | 920.4 | 1,131.7 | 770.8 |
| Salmonella infections (A01–A02) | 0.0 | * | * | * | * | * | 0.0 | * | * | * | * | * | * | * | * |
| Shigellosis and amebiasis (A03,A06) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Certain other intestinal infections (A04,A07–A09) | 3.1 | 3.1 | 3.2 | 2.5 | 2.6 | 2.5 | 3.2 | 3.1 | 3.2 | 3.2 | 3.2 | 3.3 | 2.7 | 3.0 | 2.5 |
| Tuberculosis (A16–A19) | 0.2 | 0.2 | 0.1 | 0.3 | 0.5 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.6 | 0.2 |
| Respiratory tuberculosis (A16) | 0.1 | 0.2 | 0.1 | 0.3 | 0.4 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | 0.0 | 0.3 | 0.5 | * |
| Other tuberculosis (A17–A19) | 0.0 | 0.0 | 0.0 | 0.1 | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | * | * |
| Whooping cough (A37) | 0.0 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Scarlet fever and erysipelas (A38,A46) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Meningococcal infection (A39) | 0.0 | 0.0 | 0.0 | 0.0 | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * |
| Septicemia (A40–A41) | 10.6 | 11.7 | 9.7 | 8.3 | 9.3 | 7.4 | 10.7 | 11.8 | 10.0 | 9.9 | 11.0 | 9.1 | 20.0 | 22.6 | 18.3 |
| Syphilis (A50–A53) | 0.0 | 0.0 | * | * | * | * | 0.0 | * | * | * | * | * | * | * | * |
| Acute poliomyelitis (A80) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Arthropod-borne viral encephalitis (A83–A84,A85.2) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Measles (B05) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Viral hepatitis (B15–B19) | 2.1 | 2.9 | 1.4 | 3.3 | 4.6 | 2.1 | 2.0 | 2.8 | 1.3 | 1.9 | 2.6 | 1.2 | 2.8 | 4.0 | 1.9 |
| Human immunodeficiency virus (HIV) disease (B20–B24) | 2.6 | 3.8 | 1.4 | 2.8 | 4.6 | 1.1 | 2.6 | 3.8 | 1.5 | 1.1 | 1.8 | 0.4 | 12.0 | 17.0 | 7.9 |
| Malaria (B50–B54) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20–A36,A42–A44, A48–A49,A54–A79,A81–A82,A85.0–A85.1,A85.8, A86–B04,B06–B09,B25–B49,B55–B99) | 1.8 | 2.1 | 1.5 | 1.5 | 1.6 | 1.3 | 1.8 | 2.1 | 1.6 | 1.7 | 2.0 | 1.5 | 2.3 | 2.9 | 2.0 |
| Malignant neoplasms (C00–C97) | 172.8 | 209.9 | 146.7 | 119.7 | 149.4 | 99.4 | 177.1 | 214.6 | 150.7 | 176.5 | 212.6 | 150.6 | 208.8 | 271.1 | 171.4 |
| Malignant neoplasms of lip, oral cavity and pharynx (C00–C14) | 2.5 | 3.8 | 1.4 | 1.5 | 2.4 | 0.8 | 2.6 | 3.9 | 1.5 | 2.6 | 3.8 | 1.4 | 2.9 | 4.9 | 1.4 |
| Malignant neoplasm of esophagus (C15) | 4.3 | 7.6 | 1.6 | 2.3 | 4.1 | 0.8 | 4.5 | 7.9 | 1.7 | 4.6 | 8.2 | 1.7 | 4.3 | 7.7 | 2.0 |
| Malignant neoplasm of stomach (C16) | 3.4 | 4.6 | 2.5 | 5.8 | 7.6 | 4.4 | 3.2 | 4.4 | 2.3 | 2.7 | 3.6 | 1.9 | 6.5 | 9.5 | 4.5 |
| Malignant neoplasms of colon, rectum and anus (C18–C21) | 15.8 | 19.0 | 13.3 | 12.3 | 15.9 | 9.7 | 16.1 | 19.2 | 13.6 | 15.5 | 18.5 | 13.1 | 22.4 | 28.6 | 18.4 |
| Malignant neoplasms of liver and intrahepatic bile ducts (C22) | 6.0 | 8.8 | 3.6 | 8.8 | 12.9 | 5.4 | 5.7 | 8.5 | 3.4 | 5.2 | 7.5 | 3.2 | 8.0 | 12.7 | 4.4 |
| Malignant neoplasm of pancreas (C25) | 11.0 | 12.8 | 9.6 | 8.6 | 9.4 | 8.0 | 11.2 | 13.0 | 9.8 | 11.1 | 12.9 | 9.6 | 14.0 | 16.2 | 12.4 |
| Malignant neoplasm of larynx (C32) | 1.1 | 2.0 | 0.4 | 0.8 | 1.8 | 0.2 | 1.1 | 2.0 | 0.4 | 1.1 | 1.9 | 0.4 | 1.8 | 3.5 | 0.7 |
| Malignant neoplasms of trachea, bronchus and lung (C33–C34) | 47.6 | 60.3 | 38.1 | 20.4 | 29.6 | 13.8 | 49.9 | 62.8 | 40.2 | 50.8 | 62.7 | 41.7 | 52.6 | 75.6 | 37.3 |
| Malignant melanoma of skin (C43) | 2.8 | 4.1 | 1.7 | 0.8 | 1.0 | 0.6 | 2.9 | 4.4 | 1.8 | 3.4 | 5.1 | 2.1 | 0.4 | 0.5 | 0.4 |
| Malignant neoplasm of breast (C50) | 12.4 | 0.3 | 22.1 | 8.0 | * | 14.4 | 12.7 | 0.3 | 22.8 | 12.3 | 0.3 | 22.1 | 18.4 | 0.6 | 31.3 |
| Malignant neoplasm of cervix uteri (C53) | 1.2 | . . . | 2.3 | 1.4 | . . . | 2.6 | 1.2 | . . . | 2.2 | 1.0 | . . . | 2.0 | 2.3 | . . . | 4.0 |

See footnotes at end of table.

**Table 17. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Malignant neoplasms of corpus uteri and uterus, part unspecified . . . . . (C54–C55) | 2.5 | . . . | 4.5 | 1.9 | . . . | 3.4 | 2.5 | . . . | 4.5 | 2.3 | . . . | 4.2 | 4.6 | . . . | 7.7 |
| Malignant neoplasm of ovary . . . . . (C56) | 4.4 | . . . | 7.9 | 3.1 | . . . | 5.6 | 4.4 | . . . | 8.0 | 4.6 | . . . | 8.3 | 4.0 | . . . | 6.8 |
| Malignant neoplasm of prostate . . . . . (C61) | 8.7 | 21.9 | . . . | 7.3 | 18.4 | . . . | 8.8 | 22.1 | . . . | 8.1 | 20.3 | . . . | 17.5 | 49.0 | . . . |
| Malignant neoplasms of kidney and renal pelvis. . . . . (C64–C65) | 3.9 | 5.7 | 2.5 | 3.6 | 5.0 | 2.5 | 4.0 | 5.8 | 2.6 | 4.1 | 6.0 | 2.6 | 3.8 | 5.4 | 2.6 |
| Malignant neoplasm of bladder. . . . . (C67) | 4.5 | 7.8 | 2.2 | 2.3 | 3.8 | 1.3 | 4.6 | 8.1 | 2.3 | 4.9 | 8.5 | 2.3 | 3.8 | 5.7 | 2.6 |
| Malignant neoplasms of meninges, brain and other parts of central nervous system . . . . . (C70–C72) | 4.3 | 5.2 | 3.4 | 2.8 | 3.5 | 2.3 | 4.4 | 5.4 | 3.6 | 4.8 | 5.9 | 3.9 | 2.6 | 3.1 | 2.2 |
| Malignant neoplasms of lymphoid, hematopoietic and related tissue . . . . . (C81–C96) | 17.0 | 22.0 | 13.2 | 13.5 | 16.5 | 11.2 | 17.2 | 22.3 | 13.3 | 17.4 | 22.6 | 13.4 | 17.5 | 22.1 | 14.4 |
| Hodgkin's disease . . . . . (C81) | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.3 | 0.4 | 0.5 | 0.3 | 0.3 | 0.4 | 0.3 |
| Non-Hodgkin's lymphoma. . . . . (C82–C85) | 6.2 | 7.9 | 4.9 | 5.2 | 6.2 | 4.5 | 6.2 | 8.0 | 4.9 | 6.4 | 8.2 | 5.1 | 4.7 | 6.0 | 3.7 |
| Leukemia . . . . . (C91–C95) | 6.9 | 9.2 | 5.2 | 4.9 | 6.0 | 4.0 | 7.0 | 9.4 | 5.3 | 7.3 | 9.8 | 5.4 | 5.8 | 7.5 | 4.7 |
| Multiple myeloma and immunoproliferative neoplasms. . . . . (C88,C90) | 3.4 | 4.3 | 2.8 | 3.0 | 3.7 | 2.4 | 3.5 | 4.4 | 2.8 | 3.2 | 4.1 | 2.6 | 6.6 | 8.2 | 5.7 |
| Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue . . . (C96) | 0.0 | 0.0 | 0.0 | * | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * | * |
| All other and unspecified malignant neoplasms . . . . . (C17,C23–C24,C26–C31,C37–C41, C44–C49,C51–C52,C57–C60,C62–C63,C66, C68–C69,C73–C80,C97) | 19.5 | 23.9 | 16.3 | 14.5 | 17.3 | 12.3 | 20.0 | 24.4 | 16.6 | 20.1 | 24.6 | 16.6 | 21.3 | 26.0 | 18.2 |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior. . . . . (D00–D48) | 4.6 | 5.8 | 3.7 | 3.2 | 4.0 | 2.7 | 4.7 | 5.9 | 3.8 | 4.8 | 6.1 | 3.9 | 4.1 | 4.6 | 3.7 |
| Anemias . . . . . (D50–D64) | 1.5 | 1.5 | 1.4 | 1.0 | 1.1 | 0.8 | 1.5 | 1.6 | 1.5 | 1.3 | 1.3 | 1.3 | 3.1 | 3.1 | 3.0 |
| Diabetes mellitus . . . . . (E10–E14) | 20.8 | 24.9 | 17.6 | 27.1 | 31.2 | 23.7 | 20.4 | 24.4 | 17.2 | 18.2 | 22.3 | 14.9 | 39.6 | 44.6 | 35.9 |
| Nutritional deficiencies . . . . . (E40–E64) | 0.9 | 0.9 | 0.9 | 0.8 | 0.9 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 1.3 | 1.3 | 1.3 |
| Malnutrition . . . . . (E40–E46) | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.3 | 1.2 | 1.3 |
| Other nutritional deficiencies . . . . . (E50–E64) | 0.0 | 0.0 | 0.0 | * | * | * | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | * | * | * |
| Meningitis. . . . . (G00,G03) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.4 | 0.4 | 0.4 |
| Parkinson's disease. . . . . (G20–G21) | 6.8 | 10.4 | 4.6 | 5.1 | 7.2 | 3.7 | 7.0 | 10.6 | 4.7 | 7.5 | 11.2 | 5.0 | 3.1 | 5.0 | 2.1 |
| Alzheimer's disease. . . . . (G30) | 25.1 | 21.0 | 27.3 | 18.5 | 16.6 | 19.5 | 25.5 | 21.3 | 27.8 | 26.4 | 22.0 | 28.9 | 20.9 | 18.2 | 22.0 |
| Major cardiovascular diseases. . . . . (I00–I78) | 234.2 | 282.0 | 196.1 | 177.9 | 213.8 | 149.6 | 238.3 | 287.1 | 199.3 | 232.8 | 281.1 | 193.5 | 310.5 | 374.5 | 263.9 |
| Diseases of heart. . . . . (I00–I09,I11,I13,I20–I51) | 179.1 | 225.1 | 143.3 | 132.8 | 165.1 | 107.8 | 182.6 | 229.6 | 145.8 | 179.9 | 226.9 | 142.5 | 229.5 | 286.3 | 189.1 |
| Acute rheumatic fever and chronic rheumatic heart diseases. . . . . (I00–I09) | 0.9 | 0.7 | 1.0 | 0.6 | 0.4 | 0.8 | 0.9 | 0.7 | 1.1 | 0.9 | 0.8 | 1.1 | 0.7 | 0.5 | 0.8 |
| Hypertensive heart disease . . . . . (I11) | 10.0 | 11.2 | 8.7 | 8.5 | 10.1 | 7.1 | 10.1 | 11.3 | 8.8 | 8.6 | 9.4 | 7.5 | 24.0 | 29.6 | 19.6 |
| Hypertensive heart and renal disease . . . . . (I13) | 0.8 | 0.9 | 0.7 | 0.9 | 1.0 | 0.8 | 0.8 | 0.9 | 0.7 | 0.6 | 0.7 | 0.6 | 2.4 | 2.9 | 2.1 |

See footnotes at end of table.

**Table 17. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Ischemic heart diseases . . . . . (I20–I25) | 113.6 | 151.3 | 84.9 | 92.3 | 119.0 | 72.0 | 115.2 | 153.7 | 85.8 | 115.0 | 154.2 | 84.4 | 133.4 | 171.9 | 106.7 |
| Acute myocardial infarction . . . . . (I21–I22) | 36.5 | 48.0 | 27.5 | 28.8 | 37.2 | 22.3 | 37.2 | 48.9 | 27.9 | 37.3 | 49.4 | 27.5 | 42.7 | 52.9 | 35.4 |
| Other acute ischemic heart diseases . . . . . (I24) | 1.3 | 1.5 | 1.0 | 0.6 | 0.5 | 0.6 | 1.3 | 1.6 | 1.0 | 1.3 | 1.5 | 1.0 | 1.8 | 2.3 | 1.4 |
| Other forms of chronic ischemic heart disease . . . . . (I20,I25) | 75.9 | 101.8 | 56.4 | 62.9 | 81.2 | 49.1 | 76.7 | 103.2 | 56.8 | 76.4 | 103.2 | 56.0 | 89.0 | 116.7 | 69.8 |
| Atherosclerotic cardiovascular disease, so described . . . . . (I25.0) | 17.0 | 23.1 | 11.8 | 13.8 | 19.6 | 9.1 | 17.2 | 23.3 | 12.0 | 16.4 | 22.3 | 11.4 | 26.4 | 37.1 | 18.7 |
| All other forms of chronic ischemic heart disease. . . . . (I20,I25.1–I25.9) | 58.9 | 78.7 | 44.5 | 49.1 | 61.6 | 39.9 | 59.5 | 79.9 | 44.8 | 60.0 | 81.0 | 44.6 | 62.5 | 79.6 | 51.1 |
| Other heart diseases . . . . . (I26–I51) | 53.7 | 60.9 | 48.0 | 30.5 | 34.6 | 27.1 | 55.5 | 62.9 | 49.5 | 54.7 | 61.9 | 48.9 | 68.9 | 81.4 | 60.0 |
| Acute and subacute endocarditis. . . . . (I33) | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.5 | 0.7 | 0.4 |
| Diseases of pericardium and acute myocarditis . . . . . (I30–I31,I40) | 0.2 | 0.3 | 0.2 | 0.1 | 0.2 | 0.1 | 0.2 | 0.3 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 | 0.3 |
| Heart failure . . . . . (I50) | 17.3 | 19.2 | 15.9 | 10.0 | 11.4 | 9.0 | 17.7 | 19.7 | 16.3 | 17.8 | 19.7 | 16.4 | 19.8 | 22.8 | 17.7 |
| All other forms of heart disease . . . . . (I26–I28, I34–I38,I42–I49,I51) | 35.9 | 41.0 | 31.6 | 20.1 | 22.7 | 17.8 | 37.1 | 42.5 | 32.7 | 36.3 | 41.4 | 32.0 | 48.2 | 57.5 | 41.5 |
| Essential hypertension and hypertensive renal disease . . . . . (I10,I12,I15) | 8.0 | 8.0 | 7.8 | 7.8 | 8.1 | 7.5 | 8.0 | 8.0 | 7.8 | 6.9 | 6.9 | 6.7 | 17.4 | 18.8 | 16.1 |
| Cerebrovascular diseases. . . . . (I60–I69) | 39.1 | 39.3 | 38.3 | 32.1 | 33.9 | 30.2 | 39.6 | 39.6 | 38.9 | 37.8 | 37.5 | 37.4 | 54.3 | 58.1 | 50.7 |
| Atherosclerosis . . . . . (I70) | 2.2 | 2.3 | 2.0 | 1.3 | 1.6 | 1.2 | 2.2 | 2.4 | 2.1 | 2.2 | 2.4 | 2.1 | 2.2 | 2.5 | 2.0 |
| Other diseases of circulatory system . . . . . (I71–I78) | 5.8 | 7.3 | 4.7 | 3.8 | 5.1 | 2.9 | 6.0 | 7.5 | 4.8 | 5.9 | 7.5 | 4.7 | 7.2 | 8.9 | 6.0 |
| Aortic aneurysm and dissection . . . . . (I71) | 3.2 | 4.4 | 2.3 | 1.8 | 2.6 | 1.1 | 3.3 | 4.5 | 2.3 | 3.3 | 4.6 | 2.4 | 3.1 | 4.1 | 2.3 |
| Other diseases of arteries, arterioles and capillaries . . . . . (I72–I78) | 2.6 | 2.9 | 2.4 | 2.1 | 2.5 | 1.7 | 2.7 | 2.9 | 2.5 | 2.6 | 2.8 | 2.4 | 4.1 | 4.9 | 3.7 |
| Other disorders of circulatory system . . . . . (I80–I99) | 1.3 | 1.4 | 1.2 | 0.9 | 1.0 | 0.8 | 1.3 | 1.4 | 1.2 | 1.2 | 1.3 | 1.1 | 2.3 | 2.6 | 2.0 |
| Influenza and pneumonia . . . . . (J09–J18) | 15.1 | 18.2 | 13.1 | 13.7 | 17.0 | 11.4 | 15.2 | 18.3 | 13.2 | 14.9 | 17.7 | 13.1 | 17.1 | 21.7 | 14.3 |
| Influenza. . . . . (J09–J11) | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 |
| Pneumonia . . . . . (J12–J18) | 14.9 | 18.0 | 12.9 | 13.4 | 16.7 | 11.2 | 15.1 | 18.1 | 13.0 | 14.8 | 17.6 | 12.9 | 16.9 | 21.5 | 14.2 |
| Other acute lower respiratory infections . . . (J20–J22,U04) | 0.1 | 0.1 | 0.1 | * | * | * | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | * | * |
| Acute bronchitis and bronchiolitis . . . . . (J20–J21) | 0.0 | 0.0 | 0.0 | * | * | * | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | * | * |
| Other and unspecified acute lower respiratory infections . . . . . (J22,U04) | 0.0 | 0.0 | * | * | * | * | 0.0 | * | * | 0.0 | * | * | * | * | * |
| Chronic lower respiratory diseases . . . . . (J40–J47) | 42.2 | 48.7 | 38.0 | 19.6 | 25.2 | 15.9 | 43.9 | 50.4 | 39.7 | 46.6 | 52.5 | 42.9 | 29.6 | 40.7 | 23.3 |
| Bronchitis, chronic and unspecified . . . . . (J40–J42) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.1 |
| Emphysema . . . . . (J43) | 3.1 | 3.8 | 2.6 | 1.1 | 1.7 | 0.8 | 3.2 | 3.9 | 2.7 | 3.4 | 4.1 | 3.0 | 2.0 | 3.1 | 1.3 |
| Asthma. . . . . (J45–J46) | 1.0 | 0.9 | 1.2 | 0.9 | 0.7 | 1.1 | 1.1 | 0.9 | 1.2 | 0.9 | 0.6 | 1.0 | 2.4 | 2.3 | 2.4 |
| Other chronic lower respiratory diseases . . . . . (J44,J47) | 37.9 | 43.8 | 34.1 | 17.3 | 22.5 | 13.9 | 39.4 | 45.3 | 35.6 | 42.1 | 47.5 | 38.7 | 25.1 | 35.1 | 19.5 |
| Pneumoconioses and chemical effects. . . . . (J60–J66,J68) | 0.3 | 0.6 | 0.0 | 0.1 | 0.3 | * | 0.3 | 0.7 | 0.0 | 0.3 | 0.7 | 0.0 | 0.1 | 0.4 | * |

See footnotes at end of table.

**Table 17. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Pneumonitis due to solids and liquids . . . . . (J69) | 5.1 | 7.3 | 3.8 | 3.3 | 4.7 | 2.4 | 5.3 | 7.4 | 3.9 | 5.4 | 7.6 | 4.0 | 5.0 | 7.1 | 3.8 |
| Other diseases of respiratory system . . . . . (J00–J06, J30–J39,J67,J70–J98) | 9.5 | 11.7 | 8.0 | 8.5 | 9.8 | 7.5 | 9.6 | 11.8 | 8.1 | 9.7 | 11.9 | 8.1 | 9.5 | 11.3 | 8.5 |
| Peptic ulcer . . . . . (K25–K28) | 0.9 | 1.0 | 0.8 | 0.6 | 0.7 | 0.5 | 0.9 | 1.1 | 0.8 | 0.9 | 1.1 | 0.8 | 0.9 | 1.3 | 0.7 |
| Diseases of appendix. . . . . (K35–K38) | 0.1 | 0.2 | 0.1 | 0.1 | 0.1 | * | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | 0.1 | 0.1 | 0.2 | * |
| Hernia. . . . . (K40–K46) | 0.5 | 0.6 | 0.5 | 0.5 | 0.4 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.5 |
| Chronic liver disease and cirrhosis . . . . . (K70,K73–K74) | 9.4 | 12.9 | 6.2 | 13.7 | 19.8 | 8.2 | 9.0 | 12.2 | 6.1 | 9.4 | 12.7 | 6.4 | 6.9 | 10.0 | 4.5 |
| Alcoholic liver disease . . . . . (K70) | 4.7 | 7.0 | 2.6 | 6.8 | 11.7 | 2.4 | 4.5 | 6.5 | 2.7 | 4.7 | 6.8 | 2.8 | 3.1 | 4.6 | 1.9 |
| Other chronic liver disease and cirrhosis . . . . (K73–K74) | 4.7 | 5.9 | 3.6 | 6.9 | 8.1 | 5.7 | 4.5 | 5.7 | 3.4 | 4.7 | 5.9 | 3.6 | 3.8 | 5.4 | 2.6 |
| Cholelithiasis and other disorders of gallbladder . (K80–K82) | 1.0 | 1.2 | 0.9 | 1.1 | 1.4 | 0.9 | 1.0 | 1.2 | 0.9 | 1.0 | 1.2 | 0.9 | 1.1 | 1.2 | 1.0 |
| Nephritis, nephrotic syndrome and nephrosis . . . . . (N00–N07,N17–N19,N25–N27) | 15.3 | 18.7 | 13.0 | 14.1 | 17.3 | 11.9 | 15.3 | 18.8 | 13.1 | 13.8 | 17.4 | 11.5 | 30.1 | 34.9 | 27.0 |
| Acute and rapidly progressive nephritic and nephrotic syndrome. . . . . (N00–N01,N04) | 0.0 | 0.1 | 0.0 | * | * | * | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.0 | 0.1 | * | * |
| Chronic glomerulonephritis, nephritis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified. . . . . (N02–N03,N05–N07,N26) | 1.8 | 2.2 | 1.5 | 1.5 | 1.8 | 1.3 | 1.8 | 2.2 | 1.5 | 1.6 | 2.0 | 1.4 | 3.4 | 4.1 | 2.9 |
| Renal failure. . . . . (N17–N19) | 13.4 | 16.5 | 11.5 | 12.5 | 15.5 | 10.6 | 13.5 | 16.5 | 11.5 | 12.1 | 15.3 | 10.1 | 26.6 | 30.6 | 24.0 |
| Other disorders of kidney . . . . . (N25,N27) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Infections of kidney . . . . . (N10–N12,N13.6,N15.1) | 0.2 | 0.1 | 0.2 | 0.2 | * | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 |
| Hyperplasia of prostate. . . . . (N40) | 0.1 | 0.4 | . . . | 0.1 | 0.4 | . . . | 0.1 | 0.4 | . . . | 0.1 | 0.4 | . . . | 0.1 | 0.4 | . . . |
| Inflammatory diseases of female pelvic organs. . (N70–N76) | 0.0 | . . . | 0.1 | * | . . . | * | 0.0 | . . . | 0.1 | 0.0 | . . . | 0.1 | 0.1 | . . . | 0.1 |
| Pregnancy, childbirth and the puerperium . . . . (O00–O99) | 0.3 | . . . | 0.6 | 0.3 | . . . | 0.6 | 0.3 | . . . | 0.6 | 0.2 | . . . | 0.4 | 0.7 | . . . | 1.3 |
| Pregnancy with abortive outcome . . . . . (O00–O07) | 0.0 | . . . | 0.0 | * | . . . | * | 0.0 | . . . | 0.0 | * | . . . | * | * | . . . | * |
| Other complications of pregnancy, childbirth and the puerperium . . . . . (O10–O99) | 0.3 | . . . | 0.5 | 0.3 | . . . | 0.5 | 0.3 | . . . | 0.5 | 0.2 | . . . | 0.4 | 0.6 | . . . | 1.2 |
| Certain conditions originating in the perinatal period . . . . . (P00–P96) | 4.2 | 4.7 | 3.8 | 3.4 | 3.9 | 3.0 | 4.4 | 4.8 | 4.0 | 3.3 | 3.6 | 3.0 | 8.8 | 9.5 | 8.0 |
| Congenital malformations, deformations and chromosomal abnormalities. . . . . (Q00–Q99) | 3.2 | 3.3 | 3.1 | 2.7 | 2.8 | 2.7 | 3.3 | 3.4 | 3.2 | 3.2 | 3.3 | 3.1 | 3.8 | 4.2 | 3.6 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified . . . . . (R00–R99) | 11.7 | 11.9 | 11.1 | 7.0 | 7.2 | 6.6 | 12.1 | 12.3 | 11.5 | 11.9 | 12.0 | 11.4 | 15.3 | 17.0 | 13.8 |
| All other diseases. . . . . (residual) | 81.1 | 80.9 | 79.6 | 58.1 | 60.3 | 55.3 | 82.8 | 82.5 | 81.3 | 82.9 | 82.2 | 81.5 | 96.5 | 101.3 | 92.3 |
| Accidents (unintentional injuries) . . . . (V01–X59,Y85–Y86) | 38.0 | 51.5 | 25.6 | 25.8 | 37.2 | 14.9 | 39.7 | 53.6 | 27.1 | 42.4 | 56.6 | 29.2 | 32.4 | 47.5 | 20.0 |
| Transport accidents . . . . . (V01–V99,Y85) | 12.1 | 17.6 | 6.9 | 10.2 | 15.0 | 5.5 | 12.4 | 18.0 | 7.1 | 12.9 | 18.5 | 7.5 | 12.1 | 18.6 | 6.4 |
| Motor vehicle accidents. . . . . (V02–V04,V09.0,V09.2, V12–V14,V19.0–V19.2,V19.4–V19.6,V20–V79, V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 11.3 | 16.2 | 6.5 | 9.6 | 14.0 | 5.3 | 11.5 | 16.6 | 6.8 | 11.9 | 17.1 | 7.0 | 11.4 | 17.4 | 6.1 |

See footnotes at end of table.

**Table 17. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Other land transport accidents . . . . . (V01,V05–V06, V09.1,V09.3–V09.9,V10–V11,V15–V18,V19.3,V19.8–V19.9,V80.0–V80.2,V80.6–V80.9,V81.2–V81.9, V82.2–V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) | 0.3 | 0.5 | 0.1 | 0.4 | 0.6 | 0.1 | 0.3 | 0.5 | 0.2 | 0.3 | 0.5 | 0.2 | 0.4 | 0.6 | 0.2 |
| Water, air and space, and other and unspecified transport accidents and their sequelae . . . . . (V90–V99,Y85) | 0.5 | 0.8 | 0.2 | 0.2 | 0.4 | * | 0.5 | 0.9 | 0.2 | 0.6 | 0.9 | 0.3 | 0.3 | 0.6 | 0.1 |
| Nontransport accidents . . . . . (W00–X59,Y86) | 25.9 | 33.9 | 18.7 | 15.6 | 22.2 | 9.4 | 27.4 | 35.7 | 19.9 | 29.6 | 38.1 | 21.7 | 20.3 | 28.9 | 13.6 |
| Falls . . . . . (W00–W19) | 7.9 | 9.9 | 6.4 | 5.2 | 7.0 | 3.8 | 8.0 | 10.0 | 6.5 | 8.6 | 10.6 | 7.0 | 3.9 | 5.7 | 2.8 |
| Accidental discharge of firearms. . . . . (W32–W34) | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | * | 0.2 | 0.4 | 0.1 | 0.2 | 0.4 | 0.1 | 0.3 | 0.5 | * |
| Accidental drowning and submersion . . . . (W65–W74) | 1.2 | 1.9 | 0.5 | 1.0 | 1.7 | 0.3 | 1.3 | 1.9 | 0.6 | 1.2 | 1.8 | 0.6 | 1.3 | 2.3 | 0.5 |
| Accidental exposure to smoke, fire and flames . . . . . (X00–X09) | 0.9 | 1.1 | 0.7 | 0.5 | 0.7 | 0.3 | 0.9 | 1.2 | 0.7 | 0.9 | 1.1 | 0.7 | 1.6 | 2.2 | 1.2 |
| Accidental poisoning and exposure to noxious substances . . . . . (X40–X49) | 10.6 | 13.8 | 7.5 | 5.6 | 8.1 | 3.1 | 11.6 | 14.9 | 8.3 | 13.3 | 16.9 | 9.6 | 7.5 | 10.3 | 5.2 |
| Other and unspecified nontransport accidents and their sequelae . . . . . (W20–W31,W35–W64, W75–W99,X10–X39,X50–X59,Y86) | 5.2 | 7.0 | 3.6 | 3.1 | 4.6 | 1.8 | 5.3 | 7.2 | 3.7 | 5.4 | 7.3 | 3.8 | 5.6 | 8.0 | 3.8 |
| Intentional self-harm (suicide) . . . . . (*U03,X60–X84,Y87.0) | 12.1 | 19.8 | 5.0 | 5.9 | 9.9 | 2.1 | 13.1 | 21.4 | 5.4 | 15.0 | 24.2 | 6.2 | 5.4 | 9.4 | 1.9 |
| Intentional self-harm (suicide) by discharge of firearms . . . . . (X72–X74) | 6.1 | 11.2 | 1.5 | 2.2 | 4.2 | 0.4 | 6.6 | 12.2 | 1.6 | 7.7 | 14.0 | 2.0 | 2.7 | 5.3 | 0.6 |
| Intentional self-harm (suicide) by other and unspecified means and their sequelae . . . . . (*U03,X60–X71, X75–X84,Y87.0) | 6.0 | 8.7 | 3.5 | 3.6 | 5.6 | 1.7 | 6.4 | 9.2 | 3.8 | 7.2 | 10.3 | 4.3 | 2.7 | 4.2 | 1.3 |
| Assault (homicide). . . . . (*U01–*U02,X85–Y09,Y87.1) | 5.3 | 8.4 | 2.3 | 5.3 | 8.7 | 1.8 | 5.3 | 8.2 | 2.3 | 2.5 | 3.3 | 1.8 | 18.6 | 33.1 | 5.2 |
| Assault (homicide) by discharge of firearms. . . . . (*U01.4,X93–X95) | 3.6 | 6.1 | 1.1 | 3.4 | 5.8 | 0.9 | 3.7 | 6.1 | 1.2 | 1.4 | 2.0 | 0.9 | 14.6 | 27.2 | 2.8 |
| Assault (homicide) by other and unspecified means and their sequelae . . . . . (*U01.0–*U01.3,*U01.5–*U01.9, *U02,X85–X92,X96–Y09,Y87.1) | 1.7 | 2.2 | 1.1 | 1.9 | 2.9 | 0.9 | 1.6 | 2.1 | 1.2 | 1.1 | 1.4 | 0.9 | 4.1 | 6.0 | 2.4 |
| Legal intervention . . . . . (Y35,Y89.0) | 0.1 | 0.3 | * | 0.2 | 0.3 | * | 0.1 | 0.3 | * | 0.1 | 0.2 | * | 0.3 | 0.5 | * |
| Events of undetermined intent. . . . (Y10–Y34,Y87.2,Y89.9) | 1.6 | 1.9 | 1.2 | 0.7 | 1.0 | 0.5 | 1.7 | 2.1 | 1.4 | 1.8 | 2.2 | 1.5 | 1.5 | 2.1 | 1.0 |
| Discharge of firearms, undetermined intent. . . (Y22–Y24) | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | * | 0.1 | 0.1 | 0.0 | 0.1 | 0.2 | 0.0 | 0.1 | 0.1 | * |
| Other and unspecified events of undetermined intent and their sequelae . . . . . (Y10–Y21,Y25–Y34,Y87.2,Y89.9) | 1.5 | 1.8 | 1.2 | 0.7 | 0.9 | 0.4 | 1.6 | 1.9 | 1.3 | 1.8 | 2.0 | 1.5 | 1.4 | 2.0 | 1.0 |
| Operations of war and their sequelae . . . . . (Y36,Y89.1) | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Complications of medical and surgical care . . . . . (Y40–Y84,Y88) | 0.8 | 0.8 | 0.7 | 0.5 | 0.6 | 0.4 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.7 | 1.2 | 1.3 | 1.2 |

See footnotes at end of table.

**Table 17. Age-adjusted death rates for 113 selected causes, Enterocolitis due to *Clostridium difficile*, drug-induced causes, alcohol-induced causes, and injury by firearms, by Hispanic origin, race for non-Hispanic population, and sex: United States, 2010—Con.**

[Age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Race and Hispanic origin are reported separately on the death certificate. Persons of Hispanic origin may be of any race. Data for Hispanic persons are not tabulated separately by race; data for non-Hispanic persons are tabulated by race. Data for Hispanic origin should be interpreted with caution because of inconsistencies between reporting Hispanic origin on death certificates and on censuses and surveys; see Technical Notes. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | All origins[1] | | | Hispanic | | | Non-Hispanic[2] | | | Non-Hispanic white[3] | | | Non-Hispanic black[3] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Enterocolitis due to *Clostridium difficile* . . . . . (A04.7)[4] | 2.2 | 2.3 | 2.2 | 1.8 | 1.8 | 1.8 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.3 | 1.7 | 1.9 | 1.6 |
| Drug-induced deaths[5,6] . . . . . | 12.9 | 15.9 | 10.0 | 6.1 | 8.4 | 3.8 | 14.2 | 17.3 | 11.1 | 16.4 | 19.8 | 12.9 | 9.0 | 11.9 | 6.5 |
| Alcohol-induced deaths[5,7] . . . . . | 7.6 | 11.7 | 3.9 | 9.1 | 16.0 | 3.0 | 7.4 | 11.2 | 4.0 | 7.8 | 11.6 | 4.2 | 6.1 | 9.8 | 3.1 |
| Injury by firearms[5,8] . . . . . | 10.1 | 17.9 | 2.7 | 5.9 | 10.5 | 1.3 | 10.7 | 19.1 | 2.9 | 9.5 | 16.6 | 3.0 | 17.8 | 33.4 | 3.4 |

0.0 Quantity more than zero but less than 0.05.

* Figure does not meet standards of reliability or precision; see Technical Notes.

. . . Category not applicable.

[1]Figures for origin not stated are included in "All origins" but not distributed among specified origins.

[2]Includes races other than white and black.

[3]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 37 states and the District of Columbia in 2010; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[4]Included in "Certain other intestinal infections (A04,A07–A09)" shown above. Beginning with data year 2006, Enterocolitis due to *Clostridium difficile* (A04.7) is shown separately at the bottom of tables showing 113 selected causes and is included in the list of rankable causes; see Technical Notes.

[5]Included in selected categories above.

[6]Includes ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3, L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14. Trend data for Drug-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[7]Includes ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15. Trend data for Alcohol-induced deaths, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

[8]Includes ICD–10 codes *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0. Trend data for Injury by firearms, previously shown in this report, can be found through a link from the online version of this report, available from http://www.cdc.gov/nchs/deaths.htm.

**Table 18. Number of deaths, death rates, and age-adjusted death rates for injury deaths, by mechanism and intent of death: United States, 2010**

[Totals for selected causes of death differ from those shown in other tables that utilize standard mortality tabulation lists, see Technical Notes. Rates are per 100,000 population; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Figure(s) in brackets [ ] applies to the code or range of codes preceding it. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Mechanism and intent of death (based on the *International Classification of Diseases, Tenth Revision*, Second Edition, 2004) | | Number | Rate | Age-adjusted rate[1] |
|---|---|---|---|---|
| All injury | (*U01–*U03,V01–Y36,Y85–Y87,Y89) | 180,811 | 58.6 | 57.1 |
| Unintentional | (V01–X59,Y85–Y86) | 120,859 | 39.1 | 38.0 |
| Suicide | (*U03,X60–X84,Y87.0) | 38,364 | 12.4 | 12.1 |
| Homicide | (*U01–*U02,X85–Y09,Y87.1) | 16,259 | 5.3 | 5.3 |
| Undetermined | (Y10–Y34,Y87.2,Y89.9) | 4,908 | 1.6 | 1.6 |
| Legal intervention/war | (Y35–Y36,Y89[.0,.1]) | 421 | 0.1 | 0.2 |
| Cut/pierce | (W25–W29,W45–W46,X78,X99,Y28,Y35.4) | 2,598 | 0.8 | 0.8 |
| Unintentional | (W25–W29,W45–W46) | 105 | 0.0 | 0.0 |
| Suicide | (X78) | 673 | 0.2 | 0.2 |
| Homicide | (X99) | 1,799 | 0.6 | 0.6 |
| Undetermined | (Y28) | 21 | 0.0 | 0.0 |
| Legal intervention/war | (Y35.4) | – | * | * |
| Drowning | (W65–W74,X71,X92,Y21) | 4,521 | 1.5 | 1.4 |
| Unintentional | (W65–W74) | 3,782 | 1.2 | 1.2 |
| Suicide | (X71) | 409 | 0.1 | 0.1 |
| Homicide | (X92) | 52 | 0.0 | 0.0 |
| Undetermined | (Y21) | 278 | 0.1 | 0.1 |
| Fall | (W00–W19,X80,Y01,Y30) | 26,852 | 8.7 | 8.1 |
| Unintentional | (W00–W19) | 26,009 | 8.4 | 7.9 |
| Suicide | (X80) | 781 | 0.3 | 0.3 |
| Homicide | (Y01) | 12 | * | * |
| Undetermined | (Y30) | 50 | 0.0 | 0.0 |
| Fire/hot object or substance | (*U01.3,X00–X19,X76–X77, X97–X98,Y26–Y27,Y36.3)[2] | 3,194 | 1.0 | 1.0 |
| Unintentional | (X00–X19) | 2,845 | 0.9 | 0.9 |
| Suicide | (X76–X77) | 131 | 0.0 | 0.0 |
| Homicide | (*U01.3,X97–X98) | 92 | 0.0 | 0.0 |
| Undetermined | (Y26–Y27) | 126 | 0.0 | 0.0 |
| Legal intervention/war | (Y36.3) | – | * | * |
| Fire/flame | (X00–X09,X76,X97,Y26) | 3,127 | 1.0 | 1.0 |
| Unintentional | (X00–X09) | 2,782 | 0.9 | 0.9 |
| Suicide | (X76) | 131 | 0.0 | 0.0 |
| Homicide | (X97) | 89 | 0.0 | 0.0 |
| Undetermined | (Y26) | 125 | 0.0 | 0.0 |
| Hot object/substance | (X10–X19,X77,X98,Y27) | 67 | 0.0 | 0.0 |
| Unintentional | (X10–X19) | 63 | 0.0 | 0.0 |
| Suicide | (X77) | – | * | * |
| Homicide | (X98) | 3 | * | * |
| Undetermined | (Y27) | 1 | * | * |
| Firearm | (*U01.4,W32–W34,X72–X74,X93–X95,Y22–Y24,Y35.0) | 31,672 | 10.3 | 10.1 |
| Unintentional | (W32–W34) | 606 | 0.2 | 0.2 |
| Suicide | (X72–X74) | 19,392 | 6.3 | 6.1 |
| Homicide | (*U01.4,X93–X95) | 11,078 | 3.6 | 3.6 |
| Undetermined | (Y22–Y24) | 252 | 0.1 | 0.1 |
| Legal intervention/war | (Y35.0) | 344 | 0.1 | 0.1 |
| Machinery | (W24,W30–W31)[3] | 590 | 0.2 | 0.2 |
| All transport | (*U01.1,V01–V99,X82,Y03,Y32,Y36.1) | 37,402 | 12.1 | 11.9 |
| Unintentional | (V01–V99) | 37,236 | 12.1 | 11.8 |
| Suicide | (X82) | 114 | 0.0 | 0.0 |
| Homicide | (*U01.1,Y03) | 39 | 0.0 | 0.0 |
| Undetermined | (Y32) | 13 | * | * |
| Legal intervention/war | (Y36.1) | – | * | * |
| Motor vehicle traffic | (V02–V04[.1,.9],V09.2,V12–V14[.3–.9],V19[.4–.6], V20–V28[.3–.9],V29–V79[.4–.9],V80[.3–.5],V81.1,V82.1, V83–V86[.0–.3],V87[.0–.8],V89.2)[3] | 33,687 | 10.9 | 10.7 |
| Occupant | (V30–V79[.4–.9],V83–V86[.0–.3])[3] | 10,246 | 3.3 | 3.3 |
| Motorcyclist | (V20–V28[.3–.9],V29[.4–.9])[3] | 4,177 | 1.4 | 1.3 |
| Pedal cyclist | (V12–V14[.3–.9],V19[.4–.6])[3] | 551 | 0.2 | 0.2 |
| Pedestrian | (V02–V04[.1,.9],V09.2)[3] | 4,383 | 1.4 | 1.4 |

See footnotes at end of table.

**Table 18. Number of deaths, death rates, and age-adjusted death rates for injury deaths, by mechanism and intent of death: United States, 2010—Con.**

[Totals for selected causes of death differ from those shown in other tables that utilize standard mortality tabulation lists, see Technical Notes. Rates are per 100,000 population; age-adjusted rates are per 100,000 U.S. standard population; see Technical Notes. Rates are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Figure(s) in brackets [ ] applies to the code or range of codes preceding it. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Mechanism and intent of death (based on the *International Classification of Diseases, Tenth Revision*, Second Edition, 2004) | Number | Rate | Age-adjusted rate[1] |
|---|---|---|---|
| Other . . . (V80[.3–.5],V81.1,V82.1)[3] | 10 | * | * |
| Unspecified . . . (V87[.0–.8],V89.2)[3] | 14,320 | 4.6 | 4.6 |
| Pedal cyclist, other . . . (V10–V11,V12–V14[.0–.2],V15–V18,V19[.0–.3,.8,.9])[3] | 242 | 0.1 | 0.1 |
| Pedestrian, other . . . (V01,V02–V04[.0],V05,V06,V09[.0,.1,.3,.9])[3] | 1,074 | 0.3 | 0.3 |
| Other land transport . . . (V20–V28[.0–.2],V29–V79[.0–.3],V80[.0–.2,.6–.9], V81–V82[.0,.2–.9],V83–V86[.4–.9],V87.9,V88[.0–.9],V89[.0,.1,.3,.9],X82,Y03,Y32) | 1,524 | 0.5 | 0.5 |
| Unintentional . . . (V20–V28[.0–.2],V29–V79[.0–.3],V80(.0–.2,.6–.9), V81–V82[.0,.2–.9],V83–V86[.4–.9],V87.9,V88[.0–.9],V89[.0,.1,.3,.9]) | 1,358 | 0.4 | 0.4 |
| Suicide . . . (X82) | 114 | 0.0 | 0.0 |
| Homicide . . . (Y03) | 39 | 0.0 | 0.0 |
| Undetermined . . . (Y32) | 13 | * | * |
| Other transport . . . (*U01.1,V90–V99,Y36.1) | 875 | 0.3 | 0.3 |
| Unintentional . . . (V90–V99) | 875 | 0.3 | 0.3 |
| Homicide . . . (*U01.1) | – | * | * |
| Legal intervention/war . . . (Y36.1) | – | * | * |
| Natural/environmental . . . (W42–W43,W53–W64,W92–W99,X20–X39,X51–X57)[3] | 1,576 | 0.5 | 0.5 |
| Overexertion . . . (X50)[3] | 10 | * | * |
| Poisoning . . . (*U01[.6–.7],X40–X49,X60–X69,X85–X90,Y10–Y19,Y35.2) | 42,917 | 13.9 | 13.7 |
| Unintentional . . . (X40–X49) | 33,041 | 10.7 | 10.6 |
| Suicide . . . (X60–X69) | 6,599 | 2.1 | 2.1 |
| Homicide . . . (*U01[.6–.7],X85–X90) | 79 | 0.0 | 0.0 |
| Undetermined . . . (Y10–Y19) | 3,197 | 1.0 | 1.0 |
| Legal intervention/war . . . (Y35.2) | 1 | * | * |
| Struck by or against . . . (W20–W22,W50–W52,X79,Y00,Y04,Y29,Y35.3) | 912 | 0.3 | 0.3 |
| Unintentional . . . (W20–W22,W50–W52) | 788 | 0.3 | 0.2 |
| Suicide . . . (X79) | – | * | * |
| Homicide . . . (Y00,Y04) | 123 | 0.0 | 0.0 |
| Undetermined . . . (Y29) | 1 | * | * |
| Legal intervention/war . . . (Y35.3) | – | * | * |
| Suffocation . . . (W75–W84,X70,X91,Y20) | 16,362 | 5.3 | 5.2 |
| Unintentional . . . (W75–W84) | 6,165 | 2.0 | 1.9 |
| Suicide . . . (X70) | 9,493 | 3.1 | 3.1 |
| Homicide . . . (X91) | 544 | 0.2 | 0.2 |
| Undetermined . . . (Y20) | 160 | 0.1 | 0.0 |
| Other specified, classifiable . . . (*U01[.0,.2,.5],*U03.0,W23,W35–W41,W44,W49, W85–W91,X75,X81,X96,Y02,Y05- Y07,Y25,Y31,Y35[.1,.5],Y36[.0,.2,.4–.8],Y85) | 2,002 | 0.6 | 0.7 |
| Unintentional . . . (W23,W35–W41,W44,W49,W85–W91,Y85) | 1,395 | 0.5 | 0.5 |
| Suicide . . . (*U03.0,X75,X81) | 337 | 0.1 | 0.1 |
| Homicide . . . (*U01[.0,.2,.5],X96,Y02,Y05–Y07) | 211 | 0.1 | 0.1 |
| Undetermined . . . (Y25,Y31) | 15 | * | * |
| Legal intervention/war . . . (Y35[.1,.5],Y36[.0,.2,.4–.8]) | 44 | 0.0 | 0.0 |
| Other specified, not elsewhere classified . . . (*U01.8,*U02,X58,X83,Y08,Y33, Y35.6,Y86–Y87,Y89[.0–.1]) | 1,973 | 0.6 | 0.6 |
| Unintentional . . . (X58,Y86) | 1,023 | 0.3 | 0.3 |
| Suicide . . . (X83,Y87.0) | 245 | 0.1 | 0.1 |
| Homicide . . . (*U01.8,*U02,Y08,Y87.1) | 495 | 0.2 | 0.2 |
| Undetermined . . . (Y33,Y87.2) | 184 | 0.1 | 0.1 |
| Legal intervention/war . . . (Y35.6,Y89[.0,.1]) | 26 | 0.0 | 0.0 |
| Unspecified . . . (*U01.9,*U03.9,X59,X84,Y09,Y34,Y35.7,Y36.9,Y89.9) | 8,230 | 2.7 | 2.5 |
| Unintentional . . . (X59) | 5,688 | 1.8 | 1.7 |
| Suicide . . . (*U03.9,X84) | 190 | 0.1 | 0.1 |
| Homicide . . . (*U01.9,Y09) | 1,735 | 0.6 | 0.6 |
| Undetermined . . . (Y34,Y89.9) | 611 | 0.2 | 0.2 |
| Legal intervention/war . . . (Y35.7,Y36.9) | 6 | * | * |

0.0 Quantity more than zero but less than 0.05.

– Quantity zero.

* Figure does not meet standards of reliability or precision; see Technical Notes.

[1]For method of computation, see Technical Notes.

[2]Codes *U01.3 and Y36.3 cannot be divided separately into the subcategories shown below; therefore, subcategories may not add to the total.

[3]Intent of death is unintentional.

**Table 19. Number of deaths, death rates, and age-adjusted death rates for major causes of death: United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010**

[Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates for the United States and each state are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are based on the 2010 census, estimated as of July 1, 2010; see Technical Notes. Numbers after causes of death are categories of the *International Classification of Diseases, Tenth Revision* (ICD–10). The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the ICD–10; see Technical Notes. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Area | All causes | | | Human immunodeficiency virus (HIV) disease (B20–B24) | | | Malignant neoplasms (C00–C97) | | | Diabetes mellitus (E10–E14) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] |
| United States[2] | 2,468,435 | 799.5 | 747.0 | 8,369 | 2.7 | 2.6 | 574,743 | 186.2 | 172.8 | 69,071 | 22.4 | 20.8 |
| Alabama | 48,038 | 1,005.0 | 939.7 | 153 | 3.2 | 3.2 | 10,196 | 213.3 | 191.7 | 1,302 | 27.2 | 25.0 |
| Alaska | 3,728 | 524.9 | 771.5 | 6 | * | * | 884 | 124.5 | 176.9 | 86 | 12.1 | 19.6 |
| Arizona | 46,762 | 731.6 | 693.1 | 102 | 1.6 | 1.6 | 10,678 | 167.1 | 154.2 | 1,389 | 21.7 | 20.3 |
| Arkansas | 28,916 | 991.7 | 892.7 | 64 | 2.2 | 2.2 | 6,475 | 222.1 | 194.7 | 850 | 29.2 | 25.8 |
| California | 234,012 | 628.2 | 646.7 | 742 | 2.0 | 1.9 | 56,453 | 151.5 | 156.9 | 7,061 | 19.0 | 19.7 |
| Colorado | 31,465 | 625.6 | 682.7 | 67 | 1.3 | 1.2 | 7,035 | 139.9 | 149.5 | 721 | 14.3 | 15.2 |
| Connecticut | 28,692 | 802.8 | 652.9 | 83 | 2.3 | 2.0 | 6,954 | 194.6 | 163.4 | 662 | 18.5 | 15.4 |
| Delaware | 7,706 | 858.2 | 769.9 | 46 | 5.1 | 4.9 | 1,909 | 212.6 | 185.7 | 196 | 21.8 | 19.2 |
| District of Columbia | 4,672 | 776.4 | 792.4 | 121 | 20.1 | 20.4 | 1,041 | 173.0 | 178.3 | 145 | 24.1 | 24.9 |
| Florida | 173,791 | 924.4 | 701.1 | 1,068 | 5.7 | 5.4 | 41,467 | 220.6 | 165.6 | 5,024 | 26.7 | 20.1 |
| Georgia | 71,263 | 735.6 | 845.4 | 495 | 5.1 | 5.0 | 15,435 | 159.3 | 174.8 | 1,996 | 20.6 | 23.1 |
| Hawaii | 9,617 | 707.0 | 589.6 | 13 | * | * | 2,266 | 166.6 | 140.9 | 272 | 20.0 | 16.6 |
| Idaho | 11,429 | 729.1 | 731.6 | 9 | * | * | 2,530 | 161.4 | 159.9 | 353 | 22.5 | 22.5 |
| Illinois | 99,931 | 778.8 | 736.9 | 300 | 2.3 | 2.3 | 24,070 | 187.6 | 178.6 | 2,507 | 19.5 | 18.5 |
| Indiana | 56,743 | 875.2 | 820.6 | 91 | 1.4 | 1.5 | 13,164 | 203.0 | 188.6 | 1,587 | 24.5 | 22.7 |
| Iowa | 27,745 | 910.8 | 721.7 | 15 | * | * | 6,358 | 208.7 | 171.9 | 733 | 24.1 | 19.3 |
| Kansas | 24,502 | 858.8 | 762.2 | 27 | 0.9 | 0.9 | 5,377 | 188.5 | 171.3 | 655 | 23.0 | 20.5 |
| Kentucky | 41,983 | 967.5 | 915.0 | 53 | 1.2 | 1.2 | 9,930 | 228.8 | 208.3 | 1,212 | 27.9 | 26.0 |
| Louisiana | 40,667 | 897.1 | 903.8 | 225 | 5.0 | 5.0 | 9,203 | 203.0 | 197.6 | 1,205 | 26.6 | 26.4 |
| Maine | 12,750 | 959.8 | 749.6 | 9 | * | * | 3,248 | 244.5 | 187.9 | 376 | 28.3 | 21.8 |
| Maryland | 43,325 | 750.4 | 728.6 | 316 | 5.5 | 5.0 | 10,269 | 177.9 | 171.2 | 1,191 | 20.6 | 19.9 |
| Massachusetts | 52,583 | 803.1 | 675.0 | 120 | 1.8 | 1.6 | 12,993 | 198.4 | 171.3 | 1,028 | 15.7 | 13.3 |
| Michigan | 88,021 | 890.6 | 786.2 | 150 | 1.5 | 1.5 | 20,620 | 208.6 | 182.9 | 2,697 | 27.3 | 24.0 |
| Minnesota | 38,972 | 734.8 | 661.5 | 48 | 0.9 | 0.9 | 9,612 | 181.2 | 167.2 | 1,037 | 19.6 | 17.7 |
| Mississippi | 28,965 | 976.1 | 962.0 | 118 | 4.0 | 4.2 | 6,271 | 211.3 | 201.4 | 926 | 31.2 | 30.3 |
| Missouri | 55,281 | 923.1 | 819.5 | 105 | 1.8 | 1.8 | 12,626 | 210.8 | 185.6 | 1,425 | 23.8 | 21.2 |
| Montana | 8,827 | 892.1 | 754.7 | 7 | * | * | 1,923 | 194.4 | 161.0 | 227 | 22.9 | 19.1 |
| Nebraska | 15,171 | 830.7 | 717.8 | 12 | * | * | 3,438 | 188.2 | 167.4 | 452 | 24.7 | 21.7 |
| Nevada | 19,623 | 726.6 | 795.4 | 60 | 2.2 | 2.2 | 4,529 | 167.7 | 174.2 | 350 | 13.0 | 13.8 |
| New Hampshire | 10,201 | 774.9 | 690.4 | 9 | * | * | 2,525 | 191.8 | 167.9 | 236 | 17.9 | 16.1 |
| New Jersey | 69,495 | 790.4 | 691.1 | 378 | 4.3 | 3.9 | 16,815 | 191.3 | 169.5 | 2,098 | 23.9 | 21.0 |
| New Mexico | 15,931 | 773.7 | 749.0 | 33 | 1.6 | 1.6 | 3,358 | 163.1 | 152.4 | 643 | 31.2 | 29.8 |
| New York | 146,432 | 755.7 | 665.5 | 990 | 5.1 | 4.7 | 35,431 | 182.8 | 163.1 | 3,642 | 18.8 | 16.7 |
| North Carolina | 78,773 | 826.1 | 804.9 | 328 | 3.4 | 3.3 | 18,061 | 189.4 | 179.0 | 2,042 | 21.4 | 20.5 |
| North Dakota | 5,944 | 883.7 | 704.3 | 2 | * | * | 1,269 | 188.7 | 157.1 | 192 | 28.5 | 22.2 |
| Ohio | 108,711 | 942.3 | 815.7 | 138 | 1.2 | 1.1 | 25,083 | 217.4 | 187.7 | 3,470 | 30.1 | 25.8 |
| Oklahoma | 36,529 | 973.8 | 915.5 | 50 | 1.3 | 1.4 | 7,831 | 208.8 | 191.3 | 1,089 | 29.0 | 26.9 |
| Oregon | 31,890 | 832.4 | 723.1 | 47 | 1.2 | 1.2 | 7,638 | 199.4 | 173.9 | 1,052 | 27.5 | 23.7 |
| Pennsylvania | 124,596 | 980.9 | 765.9 | 266 | 2.1 | 1.9 | 29,055 | 228.7 | 181.6 | 3,242 | 25.5 | 20.0 |
| Rhode Island | 9,579 | 910.1 | 721.7 | 20 | 1.9 | 1.8 | 2,266 | 215.3 | 178.3 | 211 | 20.0 | 16.0 |
| South Carolina | 41,614 | 899.7 | 854.8 | 184 | 4.0 | 3.9 | 9,356 | 202.3 | 183.6 | 1,128 | 24.4 | 22.6 |
| South Dakota | 7,100 | 872.0 | 715.1 | 10 | * | * | 1,655 | 203.3 | 171.0 | 240 | 29.5 | 24.5 |
| Tennessee | 59,578 | 938.8 | 890.8 | 207 | 3.3 | 3.2 | 13,593 | 214.2 | 195.7 | 1,687 | 26.6 | 24.7 |
| Texas | 166,527 | 662.3 | 772.3 | 773 | 3.1 | 3.2 | 36,717 | 146.0 | 165.9 | 4,744 | 18.9 | 21.6 |
| Utah | 14,776 | 534.6 | 703.2 | 13 | * | * | 2,810 | 101.7 | 133.7 | 471 | 17.0 | 22.7 |
| Vermont | 5,380 | 859.8 | 718.7 | 7 | * | * | 1,392 | 222.5 | 183.2 | 151 | 24.1 | 20.7 |
| Virginia | 59,032 | 737.8 | 741.6 | 142 | 1.8 | 1.7 | 14,080 | 176.0 | 172.4 | 1,530 | 19.1 | 18.8 |
| Washington | 48,146 | 716.0 | 692.3 | 76 | 1.1 | 1.0 | 11,874 | 176.6 | 170.5 | 1,499 | 22.3 | 21.6 |
| West Virginia | 21,275 | 1,148.1 | 933.6 | 14 | * | * | 4,685 | 252.8 | 198.0 | 776 | 41.9 | 32.9 |
| Wisconsin | 47,308 | 831.9 | 719.0 | 51 | 0.9 | 0.8 | 11,279 | 198.3 | 174.5 | 1,158 | 20.4 | 17.7 |
| Wyoming | 4,438 | 787.4 | 778.8 | 6 | * | * | 1,016 | 180.3 | 172.6 | 105 | 18.6 | 18.5 |
| Puerto Rico | 29,153 | 783.3 | 712.8 | 334 | 9.0 | 9.0 | 5,174 | 139.0 | 123.3 | 2,951 | 79.3 | 70.2 |
| Virgin Islands | 715 | 672.8 | 663.2 | 7 | * | * | 131 | 123.3 | 109.3 | 45 | 42.3 | 42.3 |
| Guam | 857 | 537.5 | 810.6 | 2 | * | * | 141 | 88.4 | 133.6 | 41 | 25.7 | 37.1 |
| American Samoa | 224 | 403.8 | 932.9 | 1 | * | * | 29 | 52.3 | 152.5 | 23 | 41.5 | 104.2 |
| Northern Marianas | 174 | 325.1 | 863.3 | – | * | * | 26 | 48.6 | 123.0 | 10 | * | * |

See footnotes at end of table.

**Table 19. Number of deaths, death rates, and age-adjusted death rates for major causes of death: United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010—Con.**

[Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates for the United States and each state are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are based on the 2010 census, estimated as of July 1, 2010; see Technical Notes. Numbers after causes of death are categories of the *International Classification of Diseases, Tenth Revision* (ICD–10). The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the ICD–10; see Technical Notes. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Area | Parkinson's disease (G20–G21) | | | Alzheimer's disease (G30) | | | Diseases of heart (I00–I09,I11,I13,I20–I51) | | | Essential hypertension and hypertensive renal disease (I10,I12,I15) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] |
| United States[2] | 22,032 | 7.1 | 6.8 | 83,494 | 27.0 | 25.1 | 597,689 | 193.6 | 179.1 | 26,634 | 8.6 | 8.0 |
| Alabama | 342 | 7.2 | 6.9 | 1,523 | 31.9 | 31.2 | 12,083 | 252.8 | 236.0 | 549 | 11.5 | 10.6 |
| Alaska | 32 | 4.5 | 9.2 | 85 | 12.0 | 25.9 | 707 | 99.5 | 151.5 | 25 | 3.5 | 6.4 |
| Arizona | 489 | 7.7 | 7.4 | 2,327 | 36.4 | 35.3 | 9,954 | 155.7 | 146.7 | 508 | 7.9 | 7.6 |
| Arkansas | 206 | 7.1 | 6.4 | 955 | 32.8 | 29.6 | 7,274 | 249.5 | 222.5 | 221 | 7.6 | 6.8 |
| California | 2,238 | 6.0 | 6.5 | 10,856 | 29.1 | 30.1 | 58,641 | 157.4 | 161.9 | 3,733 | 10.0 | 10.4 |
| Colorado | 305 | 6.1 | 7.2 | 1,334 | 26.5 | 31.1 | 6,038 | 120.1 | 132.8 | 261 | 5.2 | 5.9 |
| Connecticut | 237 | 6.6 | 5.3 | 820 | 22.9 | 17.1 | 7,127 | 199.4 | 155.7 | 321 | 9.0 | 7.0 |
| Delaware | 57 | 6.3 | 5.8 | 215 | 23.9 | 21.9 | 1,776 | 197.8 | 175.7 | 62 | 6.9 | 6.2 |
| District of Columbia | 26 | 4.3 | 4.6 | 114 | 18.9 | 18.7 | 1,306 | 217.0 | 222.4 | 57 | 9.5 | 9.6 |
| Florida | 1,755 | 9.3 | 6.7 | 4,831 | 25.7 | 18.1 | 41,737 | 222.0 | 162.3 | 1,821 | 9.7 | 7.1 |
| Georgia | 472 | 4.9 | 6.3 | 2,080 | 21.5 | 28.3 | 15,987 | 165.0 | 192.6 | 1,076 | 11.1 | 12.9 |
| Hawaii | 84 | 6.2 | 5.0 | 189 | 13.9 | 10.5 | 2,239 | 164.6 | 134.7 | 98 | 7.2 | 5.9 |
| Idaho | 123 | 7.8 | 8.3 | 410 | 26.2 | 26.8 | 2,495 | 159.2 | 159.3 | 121 | 7.7 | 7.6 |
| Illinois | 909 | 7.1 | 6.9 | 2,927 | 22.8 | 20.9 | 24,959 | 194.5 | 181.7 | 871 | 6.8 | 6.3 |
| Indiana | 485 | 7.5 | 7.2 | 1,940 | 29.9 | 27.8 | 13,388 | 206.5 | 191.8 | 454 | 7.0 | 6.5 |
| Iowa | 320 | 10.5 | 8.1 | 1,411 | 46.3 | 32.9 | 6,880 | 225.8 | 173.3 | 318 | 10.4 | 7.8 |
| Kansas | 256 | 9.0 | 7.9 | 825 | 28.9 | 24.2 | 5,433 | 190.4 | 164.9 | 157 | 5.5 | 4.6 |
| Kentucky | 296 | 6.8 | 6.8 | 1,464 | 33.7 | 33.5 | 9,662 | 222.7 | 210.1 | 295 | 6.8 | 6.5 |
| Louisiana | 265 | 5.8 | 6.2 | 1,295 | 28.6 | 30.7 | 10,282 | 226.8 | 229.4 | 390 | 8.6 | 8.9 |
| Maine | 137 | 10.3 | 8.2 | 502 | 37.8 | 28.5 | 2,628 | 197.8 | 151.1 | 87 | 6.5 | 5.0 |
| Maryland | 389 | 6.7 | 6.9 | 986 | 17.1 | 16.8 | 10,915 | 189.1 | 182.2 | 433 | 7.5 | 7.3 |
| Massachusetts | 459 | 7.0 | 5.9 | 1,773 | 27.1 | 21.2 | 12,043 | 183.9 | 150.0 | 433 | 6.6 | 5.3 |
| Michigan | 816 | 8.3 | 7.4 | 2,736 | 27.7 | 24.0 | 23,326 | 236.0 | 204.2 | 815 | 8.2 | 7.1 |
| Minnesota | 512 | 9.7 | 8.9 | 1,451 | 27.4 | 23.4 | 7,185 | 135.5 | 119.4 | 439 | 8.3 | 7.3 |
| Mississippi | 174 | 5.9 | 6.1 | 927 | 31.2 | 32.6 | 7,542 | 254.2 | 251.1 | 531 | 17.9 | 17.6 |
| Missouri | 477 | 8.0 | 7.2 | 1,986 | 33.2 | 28.8 | 13,840 | 231.1 | 201.8 | 437 | 7.3 | 6.3 |
| Montana | 94 | 9.5 | 8.1 | 302 | 30.5 | 25.2 | 1,849 | 186.9 | 154.2 | 76 | 7.7 | 6.3 |
| Nebraska | 183 | 10.0 | 8.7 | 565 | 30.9 | 24.9 | 3,355 | 183.7 | 154.2 | 176 | 9.6 | 8.0 |
| Nevada | 149 | 5.5 | 6.6 | 296 | 11.0 | 14.2 | 4,811 | 178.1 | 197.3 | 128 | 4.7 | 5.7 |
| New Hampshire | 116 | 8.8 | 8.0 | 396 | 30.1 | 26.9 | 2,290 | 174.0 | 152.7 | 80 | 6.1 | 5.4 |
| New Jersey | 645 | 7.3 | 6.5 | 1,878 | 21.4 | 17.7 | 18,730 | 213.0 | 182.0 | 750 | 8.5 | 7.2 |
| New Mexico | 171 | 8.3 | 8.3 | 343 | 16.7 | 16.8 | 3,224 | 156.6 | 151.2 | 122 | 5.9 | 5.7 |
| New York | 972 | 5.0 | 4.5 | 2,616 | 13.5 | 11.3 | 44,981 | 232.1 | 199.9 | 2,048 | 10.6 | 9.1 |
| North Carolina | 636 | 6.7 | 6.8 | 2,817 | 29.5 | 30.3 | 17,154 | 179.9 | 174.9 | 844 | 8.9 | 8.7 |
| North Dakota | 61 | 9.1 | 7.0 | 361 | 53.7 | 37.2 | 1,395 | 207.4 | 158.0 | 64 | 9.5 | 7.0 |
| Ohio | 920 | 8.0 | 6.9 | 4,109 | 35.6 | 29.7 | 26,164 | 226.8 | 192.4 | 1,220 | 10.6 | 8.9 |
| Oklahoma | 249 | 6.6 | 6.4 | 1,015 | 27.1 | 26.1 | 9,426 | 251.3 | 235.2 | 343 | 9.1 | 8.6 |
| Oregon | 356 | 9.3 | 8.3 | 1,300 | 33.9 | 28.5 | 6,198 | 161.8 | 137.9 | 444 | 11.6 | 9.8 |
| Pennsylvania | 1,184 | 9.3 | 7.1 | 3,591 | 28.3 | 20.0 | 31,556 | 248.4 | 187.0 | 977 | 7.7 | 5.7 |
| Rhode Island | 96 | 9.1 | 7.1 | 338 | 32.1 | 22.6 | 2,322 | 220.6 | 167.1 | 70 | 6.7 | 4.9 |
| South Carolina | 381 | 8.2 | 8.3 | 1,570 | 33.9 | 34.7 | 9,295 | 201.0 | 189.9 | 417 | 9.0 | 8.5 |
| South Dakota | 86 | 10.6 | 8.3 | 398 | 48.9 | 35.9 | 1,616 | 198.5 | 155.2 | 96 | 11.8 | 9.1 |
| Tennessee | 435 | 6.9 | 6.9 | 2,440 | 38.4 | 38.5 | 14,582 | 229.8 | 217.4 | 594 | 9.4 | 9.0 |
| Texas | 1,492 | 5.9 | 7.6 | 5,209 | 20.7 | 26.8 | 38,253 | 152.1 | 181.1 | 1,722 | 6.8 | 8.3 |
| Utah | 170 | 6.2 | 8.9 | 375 | 13.6 | 19.3 | 2,889 | 104.5 | 143.2 | 125 | 4.5 | 6.1 |
| Vermont | 70 | 11.2 | 9.6 | 238 | 38.0 | 30.8 | 1,172 | 187.3 | 153.6 | 49 | 7.8 | 6.5 |
| Virginia | 520 | 6.5 | 7.0 | 1,848 | 23.1 | 24.4 | 13,404 | 167.5 | 168.5 | 588 | 7.3 | 7.5 |
| Washington | 514 | 7.6 | 7.9 | 3,025 | 45.0 | 43.6 | 10,602 | 157.7 | 151.5 | 506 | 7.5 | 7.1 |
| West Virginia | 142 | 7.7 | 6.2 | 594 | 32.1 | 26.0 | 4,897 | 264.3 | 211.2 | 264 | 14.2 | 11.3 |
| Wisconsin | 492 | 8.7 | 7.4 | 1,762 | 31.0 | 25.3 | 11,115 | 195.4 | 165.1 | 399 | 7.0 | 5.9 |
| Wyoming | 37 | 6.6 | 6.8 | 146 | 25.9 | 27.2 | 962 | 170.7 | 169.8 | 19 | * | * |
| Puerto Rico | 137 | 3.7 | 3.4 | 1,860 | 50.0 | 46.0 | 5,176 | 139.1 | 124.9 | 496 | 13.3 | 12.0 |
| Virgin Islands | 4 | * | * | 18 | * | * | 174 | 163.7 | 149.7 | 20 | 18.8 | 21.5 |
| Guam | 2 | * | * | 3 | * | * | 245 | 153.7 | 254.9 | 20 | 12.5 | 16.6 |
| American Samoa | – | * | * | – | * | * | 42 | 75.7 | 168.9 | 7 | * | * |
| Northern Marianas | 1 | * | * | – | * | * | 37 | 69.1 | 167.0 | 3 | * | * |

See footnotes at end of table.

**Table 19. Number of deaths, death rates, and age-adjusted death rates for major causes of death: United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010—Con.**

[Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates for the United States and each state are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are based on the 2010 census, estimated as of July 1, 2010; see Technical Notes. Numbers after causes of death are categories of the *International Classification of Diseases, Tenth Revision* (ICD–10). The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the ICD–10; see Technical Notes. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Area | Cerebrovascular diseases (I60–I69) | | | Influenza and pneumonia (J09–J18) | | | Chronic lower respiratory diseases (J40–J47) | | | Chronic liver disease and cirrhosis (K70,K73–K74) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] |
| United States[2] | 129,476 | 41.9 | 39.1 | 50,097 | 16.2 | 15.1 | 138,080 | 44.7 | 42.2 | 31,903 | 10.3 | 9.4 |
| Alabama | 2,619 | 54.8 | 51.6 | 942 | 19.7 | 18.7 | 2,866 | 60.0 | 55.4 | 504 | 10.5 | 9.4 |
| Alaska | 167 | 23.5 | 40.9 | 64 | 9.0 | 15.8 | 176 | 24.8 | 41.5 | 70 | 9.9 | 9.8 |
| Arizona | 2,138 | 33.4 | 31.9 | 768 | 12.0 | 11.4 | 2,926 | 45.8 | 43.1 | 870 | 13.6 | 12.7 |
| Arkansas | 1,741 | 59.7 | 53.8 | 647 | 22.2 | 19.9 | 1,773 | 60.8 | 53.5 | 327 | 11.2 | 9.9 |
| California | 13,662 | 36.7 | 38.1 | 5,882 | 15.8 | 16.4 | 12,987 | 34.9 | 37.0 | 4,287 | 11.5 | 11.3 |
| Colorado | 1,607 | 32.0 | 36.1 | 550 | 10.9 | 12.3 | 2,199 | 43.7 | 49.7 | 599 | 11.9 | 11.2 |
| Connecticut | 1,349 | 37.7 | 29.4 | 568 | 15.9 | 12.1 | 1,289 | 36.1 | 29.4 | 303 | 8.5 | 7.3 |
| Delaware | 407 | 45.3 | 40.7 | 138 | 15.4 | 13.8 | 441 | 49.1 | 44.0 | 93 | 10.4 | 8.8 |
| District of Columbia | 196 | 32.6 | 32.7 | 80 | 13.3 | 13.5 | 147 | 24.4 | 25.7 | 54 | 9.0 | 8.9 |
| Florida | 8,432 | 44.8 | 32.8 | 2,259 | 12.0 | 8.9 | 10,337 | 55.0 | 40.1 | 2,480 | 13.2 | 10.6 |
| Georgia | 3,762 | 38.8 | 46.3 | 1,456 | 15.0 | 18.3 | 3,816 | 39.4 | 46.7 | 743 | 7.7 | 7.5 |
| Hawaii | 605 | 44.5 | 35.8 | 289 | 21.2 | 17.0 | 296 | 21.8 | 18.0 | 102 | 7.5 | 6.5 |
| Idaho | 642 | 41.0 | 42.0 | 208 | 13.3 | 13.5 | 727 | 46.4 | 47.0 | 150 | 9.6 | 9.3 |
| Illinois | 5,349 | 41.7 | 39.2 | 2,212 | 17.2 | 16.1 | 5,231 | 40.8 | 39.3 | 1,123 | 8.8 | 8.2 |
| Indiana | 3,082 | 47.5 | 44.5 | 1,175 | 18.1 | 16.8 | 3,794 | 58.5 | 55.3 | 634 | 9.8 | 9.0 |
| Iowa | 1,537 | 50.5 | 38.0 | 560 | 18.4 | 13.7 | 1,698 | 55.7 | 44.7 | 277 | 9.1 | 7.9 |
| Kansas | 1,370 | 48.0 | 41.2 | 550 | 19.3 | 16.4 | 1,580 | 55.4 | 50.0 | 244 | 8.6 | 7.8 |
| Kentucky | 1,992 | 45.9 | 44.1 | 943 | 21.7 | 21.0 | 2,779 | 64.0 | 60.0 | 463 | 10.7 | 9.4 |
| Louisiana | 1,977 | 43.6 | 44.9 | 878 | 19.4 | 20.2 | 1,939 | 42.8 | 43.6 | 390 | 8.6 | 7.9 |
| Maine | 602 | 45.3 | 34.5 | 234 | 17.6 | 13.4 | 809 | 60.9 | 47.4 | 154 | 11.6 | 8.8 |
| Maryland | 2,279 | 39.5 | 38.8 | 925 | 16.0 | 15.7 | 2,039 | 35.3 | 35.0 | 453 | 7.8 | 7.0 |
| Massachusetts | 2,516 | 38.4 | 31.3 | 1,291 | 19.7 | 16.0 | 2,383 | 36.4 | 31.0 | 584 | 8.9 | 7.7 |
| Michigan | 4,474 | 45.3 | 39.5 | 1,529 | 15.5 | 13.6 | 5,079 | 51.4 | 45.6 | 1,130 | 11.4 | 10.0 |
| Minnesota | 2,167 | 40.9 | 36.1 | 595 | 11.2 | 9.7 | 2,016 | 38.0 | 35.1 | 414 | 7.8 | 7.0 |
| Mississippi | 1,520 | 51.2 | 51.2 | 567 | 19.1 | 19.2 | 1,661 | 56.0 | 55.2 | 291 | 9.8 | 9.0 |
| Missouri | 3,001 | 50.1 | 44.0 | 1,188 | 19.8 | 17.4 | 3,557 | 59.4 | 52.6 | 530 | 8.8 | 7.8 |
| Montana | 494 | 49.9 | 41.8 | 168 | 17.0 | 13.6 | 602 | 60.8 | 51.3 | 124 | 12.5 | 10.7 |
| Nebraska | 876 | 48.0 | 40.5 | 266 | 14.6 | 11.9 | 1,008 | 55.2 | 48.8 | 160 | 8.8 | 8.1 |
| Nevada | 796 | 29.5 | 33.3 | 471 | 17.4 | 19.8 | 1,186 | 43.9 | 49.5 | 316 | 11.7 | 11.1 |
| New Hampshire | 500 | 38.0 | 33.5 | 191 | 14.5 | 12.6 | 609 | 46.3 | 41.7 | 103 | 7.8 | 6.4 |
| New Jersey | 3,402 | 38.7 | 33.3 | 1,128 | 12.8 | 11.0 | 3,106 | 35.3 | 31.4 | 732 | 8.3 | 7.3 |
| New Mexico | 806 | 39.1 | 38.4 | 294 | 14.3 | 14.2 | 1,022 | 49.6 | 47.7 | 377 | 18.3 | 17.0 |
| New York | 6,213 | 32.1 | 27.9 | 4,642 | 24.0 | 20.6 | 6,847 | 35.3 | 31.4 | 1,434 | 7.4 | 6.6 |
| North Carolina | 4,298 | 45.1 | 44.7 | 1,700 | 17.8 | 17.7 | 4,495 | 47.1 | 46.1 | 932 | 9.8 | 8.9 |
| North Dakota | 382 | 56.8 | 42.9 | 128 | 19.0 | 13.9 | 356 | 52.9 | 43.1 | 70 | 10.4 | 10.1 |
| Ohio | 5,755 | 49.9 | 42.6 | 1,975 | 17.1 | 14.6 | 6,717 | 58.2 | 50.5 | 1,244 | 10.8 | 9.4 |
| Oklahoma | 1,980 | 52.8 | 50.0 | 778 | 20.7 | 19.7 | 2,720 | 72.5 | 67.4 | 501 | 13.4 | 12.5 |
| Oregon | 1,793 | 46.8 | 40.1 | 417 | 10.9 | 9.2 | 1,971 | 51.4 | 45.3 | 509 | 13.3 | 11.3 |
| Pennsylvania | 6,701 | 52.8 | 39.3 | 2,324 | 18.3 | 13.6 | 6,202 | 48.8 | 37.9 | 1,200 | 9.4 | 7.8 |
| Rhode Island | 431 | 40.9 | 31.4 | 197 | 18.7 | 13.8 | 507 | 48.2 | 38.5 | 123 | 11.7 | 9.7 |
| South Carolina | 2,293 | 49.6 | 47.9 | 747 | 16.2 | 15.9 | 2,264 | 48.9 | 46.3 | 571 | 12.3 | 10.8 |
| South Dakota | 416 | 51.1 | 39.9 | 169 | 20.8 | 15.8 | 451 | 55.4 | 46.0 | 85 | 10.4 | 10.1 |
| Tennessee | 3,205 | 50.5 | 48.7 | 1,352 | 21.3 | 20.5 | 3,551 | 56.0 | 52.7 | 735 | 11.6 | 10.2 |
| Texas | 9,180 | 36.5 | 44.4 | 3,022 | 12.0 | 14.6 | 8,921 | 35.5 | 43.0 | 2,873 | 11.4 | 11.7 |
| Utah | 739 | 26.7 | 37.1 | 348 | 12.6 | 17.1 | 671 | 24.3 | 33.1 | 167 | 6.0 | 7.3 |
| Vermont | 265 | 42.3 | 35.3 | 60 | 9.6 | 7.9 | 335 | 53.5 | 45.3 | 55 | 8.8 | 7.2 |
| Virginia | 3,293 | 41.2 | 42.1 | 1,195 | 14.9 | 15.5 | 2,969 | 37.1 | 38.1 | 693 | 8.7 | 7.9 |
| Washington | 2,548 | 37.9 | 37.0 | 578 | 8.6 | 8.3 | 2,737 | 40.7 | 40.4 | 783 | 11.6 | 10.5 |
| West Virginia | 1,104 | 59.6 | 47.8 | 436 | 23.5 | 19.0 | 1,482 | 80.0 | 62.7 | 244 | 13.2 | 10.7 |
| Wisconsin | 2,609 | 45.9 | 38.7 | 904 | 15.9 | 13.3 | 2,474 | 43.5 | 38.0 | 528 | 9.3 | 8.2 |
| Wyoming | 204 | 36.2 | 37.2 | 109 | 19.3 | 19.5 | 332 | 58.9 | 59.5 | 75 | 13.3 | 12.5 |
| Puerto Rico | 1,500 | 40.3 | 36.4 | 818 | 22.0 | 19.9 | 1,089 | 29.3 | 26.5 | 201 | 5.4 | 4.6 |
| Virgin Islands | 34 | 32.0 | 33.4 | 2 | * | * | 5 | * | * | 12 | * | * |
| Guam | 66 | 41.4 | 71.6 | 11 | * | * | 24 | 15.1 | 24.5 | 19 | * | * |
| American Samoa | 21 | 37.9 | 94.5 | 7 | * | * | 10 | * | * | – | * | * |
| Northern Marianas | 17 | * | * | 5 | * | * | 6 | * | * | 1 | * | * |

See footnotes at end of table.

**Table 19. Number of deaths, death rates, and age-adjusted death rates for major causes of death: United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010—Con.**

[Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates for the United States and each state are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are based on the 2010 census, estimated as of July 1, 2010; see Technical Notes. Numbers after causes of death are categories of the *International Classification of Diseases, Tenth Revision* (ICD–10). The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the ICD–10; see Technical Notes. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Area | Nephritis, nephrotic syndrome, and nephrosis (N00–N07,N17–N19,N25–N27) | | | Accidents (V01–X59,Y85–Y86) | | | Motor vehicle accidents[3] | | | Intentional self-harm (suicide) (*U03,X60–X84,Y87.0) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] |
| United States[2] | 50,476 | 16.3 | 15.3 | 120,859 | 39.1 | 38.0 | 35,332 | 11.4 | 11.3 | 38,364 | 12.4 | 12.1 |
| Alabama | 1,184 | 24.8 | 23.1 | 2,394 | 50.1 | 49.6 | 931 | 19.5 | 19.4 | 679 | 14.2 | 14.0 |
| Alaska | 56 | 7.9 | 13.5 | 366 | 51.5 | 58.7 | 71 | 10.0 | 10.4 | 164 | 23.1 | 22.8 |
| Arizona | 537 | 8.4 | 7.9 | 3,018 | 47.2 | 46.7 | 792 | 12.4 | 12.3 | 1,093 | 17.1 | 17.0 |
| Arkansas | 737 | 25.3 | 22.8 | 1,461 | 50.1 | 49.4 | 608 | 20.9 | 20.7 | 447 | 15.3 | 15.5 |
| California | 3,112 | 8.4 | 8.7 | 10,435 | 28.0 | 27.8 | 2,922 | 7.8 | 7.7 | 3,913 | 10.5 | 10.3 |
| Colorado | 426 | 8.5 | 9.6 | 2,106 | 41.9 | 43.5 | 483 | 9.6 | 9.5 | 865 | 17.2 | 16.8 |
| Connecticut | 599 | 16.8 | 13.4 | 1,337 | 37.4 | 33.6 | 331 | 9.3 | 9.1 | 353 | 9.9 | 9.4 |
| Delaware | 158 | 17.6 | 15.4 | 357 | 39.8 | 39.2 | 111 | 12.4 | 12.5 | 106 | 11.8 | 11.3 |
| District of Columbia | 84 | 14.0 | 14.4 | 212 | 35.2 | 35.1 | 38 | 6.3 | 6.0 | 41 | 6.8 | 6.9 |
| Florida | 3,297 | 17.5 | 12.9 | 8,875 | 47.2 | 43.1 | 2,536 | 13.5 | 13.0 | 2,789 | 14.8 | 13.7 |
| Georgia | 1,753 | 18.1 | 21.3 | 3,745 | 38.7 | 40.7 | 1,324 | 13.7 | 13.9 | 1,133 | 11.7 | 11.7 |
| Hawaii | 208 | 15.3 | 12.8 | 432 | 31.8 | 29.6 | 124 | 9.1 | 9.1 | 207 | 15.2 | 15.0 |
| Idaho | 186 | 11.9 | 12.1 | 654 | 41.7 | 42.1 | 214 | 13.7 | 13.8 | 290 | 18.5 | 18.8 |
| Illinois | 2,612 | 20.4 | 19.3 | 3,997 | 31.2 | 30.4 | 1,033 | 8.1 | 7.9 | 1,178 | 9.2 | 9.0 |
| Indiana | 1,516 | 23.4 | 22.0 | 2,534 | 39.1 | 38.5 | 768 | 11.8 | 11.8 | 864 | 13.3 | 13.1 |
| Iowa | 323 | 10.6 | 8.1 | 1,273 | 41.8 | 37.2 | 400 | 13.1 | 12.7 | 372 | 12.2 | 12.1 |
| Kansas | 577 | 20.2 | 17.7 | 1,317 | 46.2 | 44.0 | 482 | 16.9 | 16.6 | 401 | 14.1 | 13.9 |
| Kentucky | 1,079 | 24.9 | 23.8 | 2,632 | 60.7 | 60.5 | 821 | 18.9 | 18.8 | 631 | 14.5 | 14.2 |
| Louisiana | 1,218 | 26.9 | 27.3 | 1,999 | 44.1 | 44.4 | 718 | 15.8 | 15.8 | 557 | 12.3 | 12.3 |
| Maine | 272 | 20.5 | 15.8 | 540 | 40.7 | 36.5 | 171 | 12.9 | 12.2 | 186 | 14.0 | 13.2 |
| Maryland | 803 | 13.9 | 13.6 | 1,446 | 25.0 | 24.7 | 513 | 8.9 | 8.8 | 502 | 8.7 | 8.3 |
| Massachusetts | 1,381 | 21.1 | 17.5 | 2,060 | 31.5 | 28.5 | 387 | 5.9 | 5.5 | 598 | 9.1 | 8.8 |
| Michigan | 1,720 | 17.4 | 15.3 | 3,770 | 38.1 | 36.2 | 1,051 | 10.6 | 10.3 | 1,263 | 12.8 | 12.5 |
| Minnesota | 897 | 16.9 | 15.0 | 2,103 | 39.6 | 36.7 | 515 | 9.7 | 9.5 | 606 | 11.4 | 11.2 |
| Mississippi | 738 | 24.9 | 24.7 | 1,685 | 56.8 | 56.8 | 682 | 23.0 | 22.9 | 388 | 13.1 | 13.0 |
| Missouri | 1,305 | 21.8 | 19.2 | 2,975 | 49.7 | 47.9 | 871 | 14.5 | 14.4 | 856 | 14.3 | 14.0 |
| Montana | 133 | 13.4 | 11.3 | 548 | 55.4 | 53.2 | 192 | 19.4 | 19.6 | 227 | 22.9 | 21.8 |
| Nebraska | 290 | 15.9 | 13.4 | 700 | 38.3 | 35.8 | 211 | 11.6 | 11.3 | 193 | 10.6 | 10.4 |
| Nevada | 471 | 17.4 | 19.5 | 1,088 | 40.3 | 41.3 | 286 | 10.6 | 10.7 | 547 | 20.3 | 19.8 |
| New Hampshire | 206 | 15.6 | 14.2 | 517 | 39.3 | 37.2 | 135 | 10.3 | 10.1 | 196 | 14.9 | 14.1 |
| New Jersey | 1,580 | 18.0 | 15.6 | 2,486 | 28.3 | 26.7 | 579 | 6.6 | 6.5 | 719 | 8.2 | 7.7 |
| New Mexico | 276 | 13.4 | 13.1 | 1,233 | 59.9 | 60.7 | 331 | 16.1 | 16.4 | 413 | 20.1 | 20.1 |
| New York | 2,439 | 12.6 | 11.0 | 5,004 | 25.8 | 24.2 | 1,323 | 6.8 | 6.6 | 1,547 | 8.0 | 7.7 |
| North Carolina | 1,892 | 19.8 | 19.5 | 4,144 | 43.5 | 43.2 | 1,383 | 14.5 | 14.5 | 1,174 | 12.3 | 12.0 |
| North Dakota | 104 | 15.5 | 11.5 | 285 | 42.4 | 38.8 | 97 | 14.4 | 14.5 | 106 | 15.8 | 15.6 |
| Ohio | 2,066 | 17.9 | 15.4 | 5,124 | 44.4 | 42.4 | 1,251 | 10.8 | 10.6 | 1,439 | 12.5 | 12.2 |
| Oklahoma | 595 | 15.9 | 15.0 | 2,288 | 61.0 | 60.3 | 716 | 19.1 | 19.0 | 618 | 16.5 | 16.5 |
| Oregon | 400 | 10.4 | 8.9 | 1,566 | 40.9 | 37.8 | 324 | 8.5 | 8.1 | 685 | 17.9 | 17.1 |
| Pennsylvania | 2,982 | 23.5 | 17.8 | 5,751 | 45.3 | 41.1 | 1,441 | 11.3 | 11.0 | 1,576 | 12.4 | 11.9 |
| Rhode Island | 199 | 18.9 | 14.5 | 475 | 45.1 | 40.0 | 91 | 8.6 | 8.2 | 129 | 12.3 | 12.3 |
| South Carolina | 963 | 20.8 | 19.9 | 2,274 | 49.2 | 48.9 | 812 | 17.6 | 17.5 | 637 | 13.8 | 13.5 |
| South Dakota | 74 | 9.1 | 7.3 | 393 | 48.3 | 44.5 | 144 | 17.7 | 17.3 | 140 | 17.2 | 17.5 |
| Tennessee | 983 | 15.5 | 14.8 | 3,539 | 55.8 | 54.9 | 1,099 | 17.3 | 17.1 | 943 | 14.9 | 14.6 |
| Texas | 3,878 | 15.4 | 18.4 | 9,212 | 36.6 | 39.0 | 3,331 | 13.2 | 13.4 | 2,891 | 11.5 | 11.7 |
| Utah | 263 | 9.5 | 13.1 | 970 | 35.1 | 40.6 | 272 | 9.8 | 10.6 | 473 | 17.1 | 18.3 |
| Vermont | 50 | 8.0 | 6.7 | 298 | 47.6 | 42.7 | 76 | 12.1 | 11.8 | 106 | 16.9 | 15.7 |
| Virginia | 1,595 | 19.9 | 20.2 | 2,527 | 31.6 | 31.6 | 724 | 9.0 | 9.0 | 963 | 12.0 | 11.7 |
| Washington | 552 | 8.2 | 8.0 | 2,609 | 38.8 | 37.6 | 549 | 8.2 | 7.9 | 957 | 14.2 | 13.9 |
| West Virginia | 475 | 25.6 | 20.3 | 1,234 | 66.6 | 63.7 | 310 | 16.7 | 16.2 | 279 | 15.1 | 14.1 |
| Wisconsin | 1,163 | 20.5 | 17.5 | 2,525 | 44.4 | 40.8 | 620 | 10.9 | 10.6 | 793 | 13.9 | 13.4 |
| Wyoming | 69 | 12.2 | 12.5 | 346 | 61.4 | 59.8 | 138 | 24.5 | 23.1 | 131 | 23.2 | 22.4 |
| Puerto Rico | 987 | 26.5 | 23.7 | 1,018 | 27.4 | 25.9 | 352 | 9.5 | 9.1 | 286 | 7.7 | 7.6 |
| Virgin Islands | 14 | * | * | 25 | 23.5 | 22.5 | 7 | * | * | 8 | * | * |
| Guam | 20 | 12.5 | 19.0 | 45 | 28.2 | 36.7 | 17 | * | * | 31 | 19.4 | 19.2 |
| American Samoa | 4 | * | * | 14 | * | * | 2 | * | * | – | * | * |
| Northern Marianas | 7 | * | * | 10 | * | * | 4 | * | * | 3 | * | * |

See footnotes at end of table.

**Table 19. Number of deaths, death rates, and age-adjusted death rates for major causes of death: United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010—Con.**

[Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates for the United States and each state are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are based on the 2010 census, estimated as of July 1, 2010; see Technical Notes. Numbers after causes of death are categories of the *International Classification of Diseases, Tenth Revision* (ICD–10). The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the ICD–10; see Technical Notes. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Area | Assault (homicide) (*U01–*U02,X85–Y09,Y87.1) | | | Alcohol-induced causes[4] | | | Drug-induced causes[5] | | | Injury by firearms[6] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] |
| United States[2] | 16,259 | 5.3 | 5.3 | 25,692 | 8.3 | 7.6 | 40,393 | 13.1 | 12.9 | 31,672 | 10.3 | 10.1 |
| Alabama | 391 | 8.2 | 8.3 | 267 | 5.6 | 5.0 | 585 | 12.2 | 12.6 | 782 | 16.4 | 16.2 |
| Alaska | 44 | 6.2 | 6.1 | 122 | 17.2 | 16.3 | 84 | 11.8 | 11.9 | 144 | 20.3 | 20.4 |
| Arizona | 418 | 6.5 | 6.7 | 987 | 15.4 | 14.7 | 1,141 | 17.9 | 18.2 | 931 | 14.6 | 14.6 |
| Arkansas | 188 | 6.4 | 6.6 | 179 | 6.1 | 5.7 | 374 | 12.8 | 13.3 | 419 | 14.4 | 14.4 |
| California | 1,954 | 5.2 | 5.1 | 4,292 | 11.5 | 11.2 | 4,258 | 11.4 | 11.1 | 2,935 | 7.9 | 7.7 |
| Colorado | 172 | 3.4 | 3.4 | 733 | 14.6 | 13.5 | 676 | 13.4 | 13.1 | 555 | 11.0 | 10.8 |
| Connecticut | 144 | 4.0 | 4.2 | 192 | 5.4 | 4.8 | 372 | 10.4 | 10.3 | 209 | 5.8 | 5.9 |
| Delaware | 61 | 6.8 | 7.0 | 74 | 8.2 | 7.3 | 147 | 16.4 | 16.8 | 88 | 9.8 | 9.9 |
| District of Columbia | 119 | 19.8 | 17.2 | 87 | 14.5 | 14.1 | 90 | 15.0 | 15.0 | 99 | 16.5 | 14.2 |
| Florida | 1,114 | 5.9 | 6.2 | 1,751 | 9.3 | 7.8 | 3,181 | 16.9 | 17.0 | 2,268 | 12.1 | 11.5 |
| Georgia | 640 | 6.6 | 6.6 | 630 | 6.5 | 6.2 | 1,124 | 11.6 | 11.4 | 1,223 | 12.6 | 12.6 |
| Hawaii | 24 | 1.8 | 1.7 | 87 | 6.4 | 5.5 | 154 | 11.3 | 11.1 | 45 | 3.3 | 3.2 |
| Idaho | 23 | 1.5 | 1.5 | 162 | 10.3 | 9.9 | 184 | 11.7 | 12.2 | 198 | 12.6 | 12.8 |
| Illinois | 783 | 6.1 | 6.1 | 690 | 5.4 | 5.0 | 1,344 | 10.5 | 10.4 | 1,064 | 8.3 | 8.2 |
| Indiana | 315 | 4.9 | 4.9 | 435 | 6.7 | 6.3 | 964 | 14.9 | 14.9 | 709 | 10.9 | 10.8 |
| Iowa | 55 | 1.8 | 1.9 | 233 | 7.6 | 6.7 | 258 | 8.5 | 8.8 | 213 | 7.0 | 6.8 |
| Kansas | 105 | 3.7 | 3.8 | 201 | 7.0 | 6.5 | 288 | 10.1 | 10.2 | 300 | 10.5 | 10.5 |
| Kentucky | 199 | 4.6 | 4.7 | 302 | 7.0 | 6.2 | 1,036 | 23.9 | 24.2 | 555 | 12.8 | 12.4 |
| Louisiana | 541 | 11.9 | 12.0 | 235 | 5.2 | 4.8 | 616 | 13.6 | 13.7 | 864 | 19.1 | 19.2 |
| Maine | 26 | 2.0 | 2.0 | 132 | 9.9 | 7.6 | 140 | 10.5 | 10.7 | 113 | 8.5 | 7.9 |
| Maryland | 438 | 7.6 | 7.7 | 291 | 5.0 | 4.5 | 674 | 11.7 | 11.4 | 538 | 9.3 | 9.3 |
| Massachusetts | 204 | 3.1 | 3.2 | 485 | 7.4 | 6.5 | 836 | 12.8 | 12.5 | 270 | 4.1 | 4.1 |
| Michigan | 610 | 6.2 | 6.4 | 928 | 9.4 | 8.3 | 1,723 | 17.4 | 17.3 | 1,076 | 10.9 | 11.0 |
| Minnesota | 112 | 2.1 | 2.1 | 429 | 8.1 | 7.3 | 427 | 8.1 | 7.9 | 365 | 6.9 | 6.8 |
| Mississippi | 284 | 9.6 | 9.8 | 167 | 5.6 | 5.3 | 353 | 11.9 | 12.0 | 475 | 16.0 | 16.1 |
| Missouri | 438 | 7.3 | 7.5 | 399 | 6.7 | 6.0 | 1,024 | 17.1 | 17.4 | 846 | 14.1 | 14.0 |
| Montana | 30 | 3.0 | 3.0 | 147 | 14.9 | 13.0 | 123 | 12.4 | 13.3 | 164 | 16.6 | 15.4 |
| Nebraska | 60 | 3.3 | 3.4 | 145 | 7.9 | 7.4 | 130 | 7.1 | 7.3 | 152 | 8.3 | 8.2 |
| Nevada | 164 | 6.1 | 6.1 | 336 | 12.4 | 11.4 | 581 | 21.5 | 20.8 | 395 | 14.6 | 14.5 |
| New Hampshire | 19 | * | * | 127 | 9.6 | 7.9 | 164 | 12.5 | 12.1 | 118 | 9.0 | 8.2 |
| New Jersey | 388 | 4.4 | 4.6 | 548 | 6.2 | 5.6 | 903 | 10.3 | 10.1 | 456 | 5.2 | 5.2 |
| New Mexico | 152 | 7.4 | 7.6 | 425 | 20.6 | 19.7 | 487 | 23.7 | 24.3 | 301 | 14.6 | 14.9 |
| New York | 898 | 4.6 | 4.6 | 1,217 | 6.3 | 5.7 | 1,760 | 9.1 | 8.8 | 1,011 | 5.2 | 5.1 |
| North Carolina | 539 | 5.7 | 5.7 | 669 | 7.0 | 6.3 | 1,125 | 11.8 | 11.7 | 1,123 | 11.8 | 11.6 |
| North Dakota | 14 | * | * | 78 | 11.6 | 11.4 | 26 | 3.9 | 3.9 | 65 | 9.7 | 9.5 |
| Ohio | 569 | 4.9 | 5.1 | 840 | 7.3 | 6.5 | 1,911 | 16.6 | 16.7 | 1,148 | 10.0 | 9.9 |
| Oklahoma | 214 | 5.7 | 5.7 | 440 | 11.7 | 11.1 | 728 | 19.4 | 19.7 | 538 | 14.3 | 14.4 |
| Oregon | 115 | 3.0 | 2.9 | 572 | 14.9 | 12.9 | 576 | 15.0 | 14.6 | 458 | 12.0 | 11.4 |
| Pennsylvania | 689 | 5.4 | 5.6 | 728 | 5.7 | 5.0 | 1,980 | 15.6 | 15.8 | 1,307 | 10.3 | 10.1 |
| Rhode Island | 27 | 2.6 | 2.6 | 102 | 9.7 | 8.2 | 176 | 16.7 | 16.3 | 49 | 4.7 | 4.6 |
| South Carolina | 322 | 7.0 | 7.1 | 394 | 8.5 | 7.5 | 697 | 15.1 | 15.0 | 648 | 14.0 | 14.0 |
| South Dakota | 17 | * | * | 89 | 10.9 | 10.7 | 48 | 5.9 | 6.6 | 75 | 9.2 | 9.2 |
| Tennessee | 410 | 6.5 | 6.5 | 542 | 8.5 | 7.5 | 1,132 | 17.8 | 17.7 | 932 | 14.7 | 14.4 |
| Texas | 1,363 | 5.4 | 5.4 | 1,579 | 6.3 | 6.3 | 2,492 | 9.9 | 10.0 | 2,714 | 10.8 | 11.0 |
| Utah | 52 | 1.9 | 1.9 | 182 | 6.6 | 7.7 | 457 | 16.5 | 17.9 | 314 | 11.4 | 12.2 |
| Vermont | 8 | * | * | 59 | 9.4 | 7.9 | 68 | 10.9 | 10.3 | 70 | 11.2 | 10.3 |
| Virginia | 373 | 4.7 | 4.7 | 414 | 5.2 | 4.7 | 571 | 7.1 | 7.0 | 875 | 10.9 | 10.8 |
| Washington | 180 | 2.7 | 2.7 | 850 | 12.6 | 11.4 | 962 | 14.3 | 13.8 | 609 | 9.1 | 8.9 |
| West Virginia | 86 | 4.6 | 5.0 | 139 | 7.5 | 6.3 | 520 | 28.1 | 29.3 | 273 | 14.7 | 14.1 |
| Wisconsin | 159 | 2.8 | 2.8 | 500 | 8.8 | 7.8 | 635 | 11.2 | 11.0 | 501 | 8.8 | 8.6 |
| Wyoming | 9 | * | * | 80 | 14.2 | 13.5 | 88 | 15.6 | 15.5 | 92 | 16.3 | 15.6 |

See footnotes at end of table.

**Table 19. Number of deaths, death rates, and age-adjusted death rates for major causes of death: United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010—Con.**

[Rates per 100,000 population; age-adjusted rates per 100,000 U.S. standard population; see Technical Notes. Rates for the United States and each state are based on populations enumerated in the 2010 census as of April 1; see Technical Notes. Rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are based on the 2010 census, estimated as of July 1, 2010; see Technical Notes. Numbers after causes of death are categories of the *International Classification of Diseases, Tenth Revision* (ICD–10). The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the ICD–10; see Technical Notes. For explanation of asterisks preceding cause-of-death codes, see Technical Notes]

| Area | Assault (homicide) (*U01–*U02,X85–Y09,Y87.1) | | | Alcohol-induced causes[4] | | | Drug-induced causes[5] | | | Injury by firearms[6] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] | Number | Rate | Age-adjusted rate[1] |
| Puerto Rico | 959 | 25.8 | 26.1 | 200 | 5.4 | 4.7 | 148 | 4.0 | 4.1 | 923 | 24.8 | 25.2 |
| Virgin Islands | 56 | 52.7 | 63.3 | 15 | * | * | 2 | * | * | 53 | 49.9 | 59.7 |
| Guam | 4 | * | * | 1 | * | * | 2 | * | * | 3 | * | * |
| American Samoa | 5 | * | * | – | * | * | – | * | * | 1 | * | * |
| Northern Marianas | 1 | * | * | 3 | * | * | – | * | * | – | * | * |

* Figure does not meet standards of reliability or precision; see Technical Notes.

– Quantity zero.

[1]Death rates are affected by the population composition of the area. Age-adjusted death rates should be used for comparisons between areas; for method of computation, see Technical Notes.

[2]Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas.

[3]ICD–10 codes for Motor vehicle accidents are V02–V04, V09.0, V09.2, V12–V14, V19.0–V19.2, V19.4–V19.6, V20–V79, V80.3–V80.5, V81.0–V81.1, V82.0–V82.1, V83–V86, V87.0–V87.8, V88.0–V88.8, V89.0, and V89.2; see Technical Notes.

[4]Causes of death attributable to alcohol-induced mortality include ICD–10 codes E24.4, F10, G31.2, G62.1, G72.1, I42.6, K29.2, K70, K85.2, K86.0, R78.0, X45, X65, and Y15; see Technical Notes.

[5]Causes of death attributable to drug-induced mortality include ICD–10 codes D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, F19.7–F19.9, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2–J70.4, K85.3,L10.5, L27.0–L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R50.2, R78.1–R78.5, X40–X44, X60–X64, X85, and Y10–Y14; see Technical Notes.

[6]ICD–10 codes for Injury by firearms are *U01.4, W32–W34, X72–X74, X93–X95, Y22–Y24, and Y35.0; see Technical Notes.

**Table 20. Infant, neonatal, and postneonatal mortality rates, by race, and sex: United States, 1940, 1950, 1960, 1970, and 1975–2010**

[Rates are infant (under 1 year), neonatal (under 28 days), and postneonatal (28 days–11 months) deaths per 1,000 live births in specified group. Beginning in 1980, race for live births is tabulated according to race of mother; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Year | All races | | | White[1] | | | All other[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Total[1] | | | Black[1] | | |
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Race of mother[2] | | | | | | Infant mortality rate | | | | | | |
| 2010 | 6.15 | 6.69 | 5.57 | 5.20 | 5.65 | 4.73 | 9.28 | 10.16 | 8.36 | 11.63 | 12.71 | 10.51 |
| 2009 | 6.39 | 7.01 | 5.75 | 5.30 | 5.79 | 4.78 | 10.02 | 11.06 | 8.94 | 12.64 | 14.08 | 11.15 |
| 2008 | 6.61 | 7.21 | 5.97 | 5.55 | 6.05 | 5.02 | 10.16 | 11.11 | 9.18 | 12.74 | 13.93 | 11.50 |
| 2007 | 6.75 | 7.38 | 6.09 | 5.64 | 6.17 | 5.08 | 10.55 | 11.51 | 9.54 | 13.24 | 14.49 | 11.94 |
| 2006 | 6.69 | 7.32 | 6.03 | 5.56 | 6.10 | 4.99 | 10.60 | 11.54 | 9.61 | 13.29 | 14.38 | 12.16 |
| 2005 | 6.87 | 7.56 | 6.15 | 5.73 | 6.32 | 5.11 | 10.92 | 11.98 | 9.82 | 13.73 | 15.15 | 12.27 |
| 2004 | 6.79 | 7.47 | 6.09 | 5.66 | 6.22 | 5.07 | 10.92 | 12.01 | 9.77 | 13.79 | 15.19 | 12.33 |
| 2003 | 6.85 | 7.60 | 6.07 | 5.72 | 6.36 | 5.05 | 11.09 | 12.24 | 9.90 | 14.01 | 15.53 | 12.43 |
| 2002 | 6.97 | 7.64 | 6.27 | 5.79 | 6.42 | 5.13 | 11.41 | 12.24 | 10.55 | 14.36 | 15.43 | 13.25 |
| 2001 | 6.85 | 7.52 | 6.14 | 5.65 | 6.21 | 5.06 | 11.33 | 12.44 | 10.18 | 14.02 | 15.48 | 12.52 |
| 2000 | 6.91 | 7.57 | 6.21 | 5.68 | 6.22 | 5.11 | 11.44 | 12.57 | 10.26 | 14.09 | 15.50 | 12.63 |
| 1999 | 7.06 | 7.72 | 6.36 | 5.77 | 6.35 | 5.15 | 11.94 | 12.94 | 10.90 | 14.56 | 15.92 | 13.16 |
| 1998 | 7.20 | 7.83 | 6.54 | 5.95 | 6.47 | 5.41 | 11.92 | 13.01 | 10.79 | 14.31 | 15.75 | 12.82 |
| 1997 | 7.23 | 7.95 | 6.47 | 6.03 | 6.67 | 5.36 | 11.76 | 12.83 | 10.65 | 14.16 | 15.47 | 12.82 |
| 1996 | 7.32 | 8.02 | 6.59 | 6.07 | 6.67 | 5.44 | 12.18 | 13.31 | 11.01 | 14.68 | 16.04 | 13.27 |
| 1995 | 7.59 | 8.33 | 6.81 | 6.29 | 6.99 | 5.55 | 12.61 | 13.53 | 11.65 | 15.12 | 16.34 | 13.86 |
| 1994 | 8.02 | 8.81 | 7.20 | 6.57 | 7.22 | 5.89 | 13.47 | 14.82 | 12.08 | 15.83 | 17.49 | 14.12 |
| 1993 | 8.37 | 9.25 | 7.43 | 6.82 | 7.56 | 6.05 | 14.07 | 15.58 | 12.52 | 16.52 | 18.33 | 14.67 |
| 1992 | 8.52 | 9.39 | 7.61 | 6.92 | 7.69 | 6.12 | 14.44 | 15.72 | 13.10 | 16.85 | 18.38 | 15.26 |
| 1991 | 8.94 | 10.00 | 7.84 | 7.30 | 8.26 | 6.30 | 15.07 | 16.53 | 13.57 | 17.57 | 19.38 | 15.71 |
| 1990 | 9.22 | 10.26 | 8.13 | 7.56 | 8.51 | 6.56 | 15.52 | 16.96 | 14.03 | 17.96 | 19.62 | 16.25 |
| 1989 | 9.81 | 10.81 | 8.77 | 8.08 | 9.01 | 7.10 | 16.33 | 17.60 | 15.02 | 18.61 | 20.02 | 17.15 |
| 1988 | 9.95 | 10.99 | 8.86 | 8.36 | 9.35 | 7.31 | 16.08 | 17.33 | 14.79 | 18.54 | 20.04 | 16.99 |
| 1987 | 10.08 | 11.17 | 8.94 | 8.48 | 9.45 | 7.45 | 16.46 | 18.06 | 14.80 | 18.75 | 20.63 | 16.83 |
| 1986 | 10.35 | 11.55 | 9.10 | 8.80 | 9.87 | 7.67 | 16.72 | 18.45 | 14.91 | 18.90 | 20.91 | 16.81 |
| 1985 | 10.64 | 11.91 | 9.32 | 9.17 | 10.39 | 7.88 | 16.84 | 18.33 | 15.28 | 19.01 | 20.76 | 17.22 |
| 1984 | 10.79 | 11.90 | 9.62 | 9.30 | 10.38 | 8.17 | 17.05 | 18.37 | 15.69 | 19.15 | 20.67 | 17.58 |
| 1983 | 11.16 | 12.31 | 9.96 | 9.61 | 10.66 | 8.49 | 17.80 | 19.44 | 16.11 | 19.98 | 21.95 | 17.96 |
| 1982 | 11.52 | 12.77 | 10.21 | 9.94 | 11.08 | 8.73 | 18.31 | 20.07 | 16.49 | 20.48 | 22.45 | 18.44 |
| 1981 | 11.93 | 13.14 | 10.66 | 10.34 | 11.50 | 9.12 | 18.82 | 20.36 | 17.24 | 20.81 | 22.54 | 19.03 |
| 1980 | 12.60 | 13.93 | 11.21 | 10.86 | 12.12 | 9.52 | 20.19 | 21.89 | 18.43 | 22.19 | 24.16 | 20.15 |
| Race of child[3] | | | | | | | | | | | | |
| 1980 | 12.60 | 13.93 | 11.21 | 11.00 | 12.27 | 9.65 | 19.12 | 20.73 | 17.47 | 21.37 | 23.27 | 19.43 |
| 1979 | 13.07 | 14.50 | 11.56 | 11.42 | 12.82 | 9.94 | 19.81 | 21.47 | 18.09 | 21.78 | 23.66 | 19.85 |
| 1978 | 13.78 | 15.26 | 12.23 | 12.01 | 13.37 | 10.58 | 21.06 | 23.15 | 18.90 | 23.11 | 25.39 | 20.77 |
| 1977 | 14.12 | 15.75 | 12.40 | 12.34 | 13.90 | 10.68 | 21.68 | 23.71 | 19.58 | 23.64 | 25.91 | 21.30 |
| 1976 | 15.24 | 16.82 | 13.57 | 13.31 | 14.81 | 11.71 | 23.50 | 25.51 | 21.42 | 25.54 | 27.83 | 23.19 |
| 1975 | 16.07 | 17.86 | 14.18 | 14.17 | 15.94 | 12.30 | 24.23 | 26.24 | 22.17 | 26.21 | 28.32 | 24.03 |
| 1970 | 20.01 | 22.37 | 17.52 | 17.75 | 19.95 | 15.42 | 30.92 | 34.20 | 27.53 | 32.65 | 36.18 | 29.01 |
| 1960 | 26.04 | 29.33 | 22.59 | 22.91 | 26.01 | 19.64 | 43.21 | 47.88 | 38.46 | 44.32 | 49.12 | 39.43 |
| 1950 | 29.21 | 32.75 | 25.48 | 26.77 | 30.21 | 23.13 | 44.46 | 48.87 | 39.93 | 43.91 | 48.27 | 39.44 |
| 1940 | 47.02 | 52.45 | 41.29 | 43.23 | 48.32 | 37.84 | 73.78 | 82.21 | 65.19 | 72.94 | 81.07 | 64.61 |
| Race of mother[2] | | | | | | Neonatal mortality rate | | | | | | |
| 2010 | 4.05 | 4.37 | 3.71 | 3.46 | 3.73 | 3.18 | 6.00 | 6.51 | 5.45 | 7.49 | 8.08 | 6.89 |
| 2009 | 4.18 | 4.53 | 3.81 | 3.48 | 3.76 | 3.19 | 6.48 | 7.10 | 5.83 | 8.17 | 9.04 | 7.28 |
| 2008 | 4.29 | 4.67 | 3.89 | 3.62 | 3.94 | 3.28 | 6.54 | 7.14 | 5.92 | 8.23 | 8.99 | 7.45 |
| 2007 | 4.42 | 4.79 | 4.02 | 3.70 | 4.01 | 3.37 | 6.86 | 7.49 | 6.22 | 8.65 | 9.48 | 7.78 |
| 2006 | 4.45 | 4.84 | 4.05 | 3.72 | 4.05 | 3.37 | 7.00 | 7.58 | 6.40 | 8.82 | 9.49 | 8.12 |
| 2005 | 4.54 | 4.93 | 4.12 | 3.79 | 4.10 | 3.46 | 7.18 | 7.88 | 6.47 | 9.07 | 9.96 | 8.14 |
| 2004 | 4.52 | 4.94 | 4.09 | 3.78 | 4.14 | 3.41 | 7.19 | 7.82 | 6.54 | 9.13 | 9.95 | 8.27 |
| 2003 | 4.62 | 5.08 | 4.14 | 3.87 | 4.26 | 3.46 | 7.40 | 8.14 | 6.64 | 9.40 | 10.40 | 8.37 |
| 2002 | 4.66 | 5.06 | 4.25 | 3.89 | 4.27 | 3.50 | 7.55 | 8.03 | 7.05 | 9.51 | 10.13 | 8.87 |
| 2001 | 4.54 | 4.97 | 4.08 | 3.78 | 4.15 | 3.39 | 7.37 | 8.06 | 6.65 | 9.21 | 10.15 | 8.25 |
| 2000 | 4.63 | 5.06 | 4.17 | 3.82 | 4.16 | 3.46 | 7.60 | 8.39 | 6.79 | 9.38 | 10.39 | 8.35 |
| 1999 | 4.73 | 5.11 | 4.33 | 3.88 | 4.19 | 3.56 | 7.94 | 8.60 | 7.25 | 9.77 | 10.72 | 8.79 |
| 1998 | 4.80 | 5.21 | 4.37 | 3.98 | 4.31 | 3.63 | 7.91 | 8.63 | 7.17 | 9.55 | 10.51 | 8.56 |
| 1997 | 4.77 | 5.20 | 4.32 | 3.99 | 4.37 | 3.59 | 7.74 | 8.36 | 7.09 | 9.40 | 10.12 | 8.65 |
| 1996 | 4.77 | 5.18 | 4.34 | 3.97 | 4.31 | 3.62 | 7.86 | 8.59 | 7.12 | 9.56 | 10.45 | 8.65 |

See footnotes at end of table.

**Table 20. Infant, neonatal, and postneonatal mortality rates, by race, and sex: United States, 1940, 1950, 1960, 1970, and 1975–2010—Con.**

[Rates are infant (under 1 year), neonatal (under 28 days), and postneonatal (28 days–11 months) deaths per 1,000 live births in specified group. Beginning in 1980, race for live births is tabulated according to race of mother; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Year | All races | | | White[1] | | | All other[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Total[1] | | | Black[1] | | |
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Race of mother[2]—Con. | | | | | | | | | | | | |
| 1995 | 4.91 | 5.36 | 4.44 | 4.08 | 4.50 | 3.64 | 8.13 | 8.71 | 7.53 | 9.85 | 10.63 | 9.05 |
| 1994 | 5.12 | 5.58 | 4.64 | 4.20 | 4.55 | 3.83 | 8.60 | 9.51 | 7.65 | 10.21 | 11.32 | 9.07 |
| 1993 | 5.29 | 5.75 | 4.81 | 4.29 | 4.64 | 3.92 | 9.02 | 9.90 | 8.11 | 10.69 | 11.76 | 9.59 |
| 1992 | 5.37 | 5.84 | 4.89 | 4.35 | 4.72 | 3.96 | 9.19 | 10.02 | 8.32 | 10.83 | 11.83 | 9.79 |
| 1991 | 5.59 | 6.17 | 4.98 | 4.53 | 5.01 | 4.04 | 9.52 | 10.54 | 8.47 | 11.25 | 12.56 | 9.89 |
| 1990 | 5.85 | 6.50 | 5.16 | 4.79 | 5.38 | 4.17 | 9.86 | 10.79 | 8.89 | 11.55 | 12.69 | 10.38 |
| 1989 | 6.23 | 6.79 | 5.63 | 5.15 | 5.66 | 4.60 | 10.30 | 11.08 | 9.49 | 11.92 | 12.84 | 10.97 |
| 1988 | 6.32 | 6.95 | 5.65 | 5.27 | 5.84 | 4.67 | 10.33 | 11.22 | 9.42 | 12.05 | 13.14 | 10.93 |
| 1987 | 6.46 | 7.11 | 5.79 | 5.40 | 5.96 | 4.82 | 10.68 | 11.72 | 9.61 | 12.30 | 13.52 | 11.05 |
| 1986 | 6.71 | 7.42 | 5.97 | 5.72 | 6.34 | 5.05 | 10.79 | 11.83 | 9.70 | 12.31 | 13.59 | 10.98 |
| 1985 | 6.96 | 7.75 | 6.13 | 6.00 | 6.75 | 5.21 | 11.00 | 12.00 | 9.95 | 12.62 | 13.81 | 11.39 |
| 1984 | 7.00 | 7.66 | 6.31 | 6.09 | 6.72 | 5.41 | 10.87 | 11.66 | 10.06 | 12.32 | 13.22 | 11.40 |
| 1983 | 7.28 | 8.01 | 6.52 | 6.31 | 6.98 | 5.61 | 11.41 | 12.46 | 10.33 | 12.93 | 14.20 | 11.63 |
| 1982 | 7.70 | 8.48 | 6.88 | 6.69 | 7.39 | 5.94 | 12.04 | 13.15 | 10.88 | 13.62 | 14.86 | 12.34 |
| 1981 | 8.02 | 8.81 | 7.20 | 6.99 | 7.73 | 6.20 | 12.51 | 13.52 | 11.48 | 13.98 | 15.16 | 12.77 |
| 1980 | 8.48 | 9.31 | 7.60 | 7.39 | 8.19 | 6.54 | 13.21 | 14.27 | 12.13 | 14.62 | 15.91 | 13.29 |
| Race of child[3] | | | | | | | | | | | | |
| 1980 | 8.48 | 9.31 | 7.60 | 7.48 | 8.29 | 6.62 | 12.52 | 13.51 | 11.49 | 14.08 | 15.32 | 12.81 |
| 1979 | 8.87 | 9.79 | 7.89 | 7.88 | 8.80 | 6.92 | 12.89 | 13.91 | 11.83 | 14.31 | 15.45 | 13.14 |
| 1978 | 9.49 | 10.54 | 8.38 | 8.39 | 9.34 | 7.38 | 14.01 | 15.54 | 12.43 | 15.47 | 17.17 | 13.72 |
| 1977 | 9.88 | 11.00 | 8.70 | 8.75 | 9.83 | 7.60 | 14.66 | 16.02 | 13.27 | 16.08 | 17.60 | 14.52 |
| 1976 | 10.92 | 12.03 | 9.75 | 9.66 | 10.73 | 8.52 | 16.31 | 17.68 | 14.90 | 17.92 | 19.47 | 16.32 |
| 1975 | 11.58 | 12.91 | 10.18 | 10.38 | 11.70 | 8.98 | 16.78 | 18.21 | 15.31 | 18.32 | 19.78 | 16.81 |
| 1970 | 15.08 | 16.96 | 13.10 | 13.77 | 15.55 | 11.88 | 21.43 | 23.87 | 18.91 | 22.76 | 25.37 | 20.07 |
| 1960 | 18.73 | 21.24 | 16.09 | 17.24 | 19.66 | 14.70 | 26.86 | 30.04 | 23.62 | 27.83 | 31.13 | 24.49 |
| 1950 | 20.50 | 23.34 | 17.50 | 19.37 | 22.18 | 16.40 | 27.54 | 30.76 | 24.23 | 27.80 | 31.09 | 24.44 |
| 1940 | 28.75 | 32.56 | 24.74 | 27.20 | 30.85 | 23.33 | 39.71 | 44.87 | 34.45 | 39.90 | 44.78 | 34.89 |
| Race of mother[2] | Postneonatal mortality rate | | | | | | | | | | | |
| 2010 | 2.10 | 2.32 | 1.87 | 1.74 | 1.92 | 1.55 | 3.29 | 3.65 | 2.91 | 4.14 | 4.63 | 3.62 |
| 2009 | 2.22 | 2.48 | 1.94 | 1.82 | 2.04 | 1.59 | 3.55 | 3.96 | 3.11 | 4.47 | 5.05 | 3.87 |
| 2008 | 2.32 | 2.54 | 2.08 | 1.93 | 2.12 | 1.73 | 3.62 | 3.97 | 3.26 | 4.50 | 4.93 | 4.06 |
| 2007 | 2.34 | 2.58 | 2.07 | 1.94 | 2.16 | 1.71 | 3.68 | 4.02 | 3.32 | 4.59 | 5.01 | 4.16 |
| 2006 | 2.24 | 2.48 | 1.98 | 1.84 | 2.05 | 1.62 | 3.60 | 3.96 | 3.22 | 4.47 | 4.89 | 4.04 |
| 2005 | 2.34 | 2.63 | 2.03 | 1.94 | 2.22 | 1.65 | 3.73 | 4.10 | 3.36 | 4.67 | 5.19 | 4.13 |
| 2004 | 2.27 | 2.53 | 2.00 | 1.87 | 2.07 | 1.66 | 3.72 | 4.19 | 3.23 | 4.66 | 5.24 | 4.06 |
| 2003 | 2.23 | 2.52 | 1.94 | 1.84 | 2.09 | 1.58 | 3.69 | 4.10 | 3.26 | 4.60 | 5.13 | 4.06 |
| 2002 | 2.31 | 2.58 | 2.03 | 1.89 | 2.15 | 1.63 | 3.86 | 4.21 | 3.50 | 4.85 | 5.30 | 4.38 |
| 2001 | 2.31 | 2.55 | 2.06 | 1.87 | 2.06 | 1.67 | 3.96 | 4.37 | 3.53 | 4.81 | 5.32 | 4.27 |
| 2000 | 2.28 | 2.51 | 2.04 | 1.86 | 2.06 | 1.66 | 3.83 | 4.18 | 3.47 | 4.70 | 5.11 | 4.28 |
| 1999 | 2.33 | 2.61 | 2.03 | 1.88 | 2.16 | 1.60 | 4.00 | 4.34 | 3.64 | 4.79 | 5.20 | 4.36 |
| 1998 | 2.40 | 2.62 | 2.16 | 1.97 | 2.16 | 1.78 | 4.01 | 4.38 | 3.62 | 4.76 | 5.24 | 4.26 |
| 1997 | 2.45 | 2.75 | 2.14 | 2.04 | 2.30 | 1.77 | 4.02 | 4.47 | 3.56 | 4.77 | 5.34 | 4.17 |
| 1996 | 2.55 | 2.84 | 2.24 | 2.09 | 2.36 | 1.81 | 4.32 | 4.72 | 3.90 | 5.11 | 5.60 | 4.62 |
| 1995 | 2.67 | 2.97 | 2.37 | 2.21 | 2.49 | 1.91 | 4.47 | 4.82 | 4.11 | 5.27 | 5.71 | 4.81 |
| 1994 | 2.90 | 3.22 | 2.56 | 2.37 | 2.67 | 2.06 | 4.88 | 5.32 | 4.42 | 5.61 | 6.17 | 5.04 |
| 1993 | 3.07 | 3.50 | 2.62 | 2.54 | 2.92 | 2.13 | 5.06 | 5.68 | 4.42 | 5.83 | 6.57 | 5.08 |
| 1992 | 3.14 | 3.55 | 2.72 | 2.58 | 2.97 | 2.16 | 5.25 | 5.69 | 4.78 | 6.02 | 6.54 | 5.47 |
| 1991 | 3.35 | 3.82 | 2.86 | 2.76 | 3.25 | 2.26 | 5.55 | 5.99 | 5.10 | 6.32 | 6.82 | 5.81 |
| 1990 | 3.38 | 3.76 | 2.97 | 2.78 | 3.14 | 2.39 | 5.66 | 6.16 | 5.13 | 6.41 | 6.93 | 5.87 |
| 1989 | 3.59 | 4.01 | 3.14 | 2.93 | 3.35 | 2.49 | 6.03 | 6.52 | 5.53 | 6.69 | 7.18 | 6.19 |
| 1988 | 3.64 | 4.04 | 3.21 | 3.09 | 3.51 | 2.65 | 5.75 | 6.11 | 5.37 | 6.49 | 6.90 | 6.07 |
| 1987 | 3.62 | 4.06 | 3.15 | 3.08 | 3.49 | 2.64 | 5.77 | 6.34 | 5.18 | 6.45 | 7.10 | 5.77 |
| 1986 | 3.64 | 4.13 | 3.13 | 3.08 | 3.53 | 2.62 | 5.93 | 6.62 | 5.21 | 6.59 | 7.33 | 5.83 |
| 1985 | 3.68 | 4.15 | 3.19 | 3.17 | 3.64 | 2.67 | 5.84 | 6.33 | 5.33 | 6.40 | 6.95 | 5.83 |
| 1984 | 3.79 | 4.23 | 3.31 | 3.22 | 3.65 | 2.76 | 6.18 | 6.71 | 5.63 | 6.83 | 7.46 | 6.18 |
| 1983 | 3.88 | 4.30 | 3.44 | 3.29 | 3.68 | 2.88 | 6.39 | 6.98 | 5.78 | 7.05 | 7.75 | 6.32 |
| 1982 | 3.82 | 4.29 | 3.33 | 3.25 | 3.68 | 2.79 | 6.28 | 6.92 | 5.61 | 6.86 | 7.59 | 6.10 |
| 1981 | 3.91 | 4.34 | 3.46 | 3.35 | 3.77 | 2.92 | 6.31 | 6.84 | 5.76 | 6.83 | 7.38 | 6.26 |
| 1980 | 4.13 | 4.62 | 3.61 | 3.47 | 3.93 | 2.98 | 6.97 | 7.62 | 6.30 | 7.57 | 8.25 | 6.87 |

See footnotes at end of table.

**Table 20. Infant, neonatal, and postneonatal mortality rates, by race, and sex: United States, 1940, 1950, 1960, 1970, and 1975–2010—Con.**

[Rates are infant (under 1 year), neonatal (under 28 days), and postneonatal (28 days–11 months) deaths per 1,000 live births in specified group. Beginning in 1980, race for live births is tabulated according to race of mother; see Technical Notes. Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards]

| Year | All races | | | White[1] | | | All other[1] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Total[1] | | | Black[1] | | |
| | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female | Both sexes | Male | Female |
| Race of child[3] | Postneonatal mortality rate | | | | | | | | | | | |
| 1980 | 4.13 | 4.62 | 3.61 | 3.52 | 3.98 | 3.02 | 6.61 | 7.22 | 5.97 | 7.29 | 7.95 | 6.62 |
| 1979 | 4.20 | 4.71 | 3.67 | 3.54 | 4.02 | 3.03 | 6.92 | 7.57 | 6.25 | 7.47 | 8.21 | 6.71 |
| 1978 | 4.30 | 4.72 | 3.85 | 3.63 | 4.03 | 3.20 | 7.05 | 7.60 | 6.48 | 7.64 | 8.22 | 7.05 |
| 1977 | 4.24 | 4.75 | 3.71 | 3.59 | 4.07 | 3.08 | 7.01 | 7.69 | 6.31 | 7.56 | 8.32 | 6.78 |
| 1976 | 4.32 | 4.79 | 3.83 | 3.65 | 4.08 | 3.19 | 7.19 | 7.83 | 6.52 | 7.63 | 8.36 | 6.88 |
| 1975 | 4.49 | 4.95 | 4.00 | 3.80 | 4.24 | 3.33 | 7.45 | 8.03 | 6.86 | 7.89 | 8.54 | 7.22 |
| 1970 | 4.93 | 5.41 | 4.42 | 3.98 | 4.40 | 3.54 | 9.49 | 10.33 | 8.62 | 9.89 | 10.81 | 8.94 |
| 1960 | 7.31 | 8.10 | 6.49 | 5.66 | 6.35 | 4.94 | 16.35 | 17.84 | 14.84 | 16.48 | 17.99 | 14.95 |
| 1950 | 8.71 | 9.41 | 7.98 | 7.40 | 8.04 | 6.73 | 16.92 | 18.11 | 15.70 | 16.10 | 17.18 | 15.00 |
| 1940 | 18.27 | 19.89 | 16.55 | 16.03 | 17.47 | 14.50 | 34.07 | 37.35 | 30.74 | 33.05 | 36.29 | 29.72 |

[1]Multiple-race data were reported for deaths by 37 states and the District of Columbia in 2010, by 34 states and the District of Columbia in 2008 and 2009, by 27 states and the District of Columbia in 2007, by 25 states and the District of Columbia in 2006, by 21 states and the District of Columbia in 2005, by 15 states in 2004, and by 7 states in 2003; see Technical Notes. Multiple-race data were reported for births by 38 states and the District of Columbia in 2010, by 32 states and the District of Columbia in 2009, by 30 areas in 2008, by 27 areas in 2007, by 23 areas in 2006, by 19 areas in 2005, by 15 areas in 2004, and by 6 areas in 2003; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[2]Infant deaths are based on race of child as stated on the death certificate; live births are based on race of mother as stated on the birth certificate; see Technical Notes.

[3]Infant deaths are based on race of child as stated on the death certificate; live births are based on race of parents as stated on the birth certificate; see Technical Notes.

## Table 21. Number of infant deaths and infant mortality rates for 130 selected causes, by race: United States, 2010

[Rates are infant deaths (under 1 year) per 100,000 live births in specified group. Infant deaths are based on race of decedent; live births are based on race of mother. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | Number | | | Rate | | |
|---|---|---|---|---|---|---|
| | All races[1] | White[2] | Black[2] | All races[1] | White[2] | Black[2] |
| All causes | 24,586 | 15,954 | 7,401 | 614.7 | 519.8 | 1,162.9 |
| Certain infectious and parasitic diseases (A00–B99) | 696 | 401 | 266 | 17.4 | 13.1 | 41.8 |
| Certain intestinal infectious diseases (A00–A08) | 7 | 4 | 2 | * | * | * |
| Diarrhea and gastroenteritis of infectious origin (A09) | 316 | 170 | 133 | 7.9 | 5.5 | 20.9 |
| Tuberculosis (A16–A19) | – | – | – | * | * | * |
| Tetanus (A33,A35) | – | – | – | * | * | * |
| Diphtheria (A36) | – | – | – | * | * | * |
| Whooping cough (A37) | 25 | 23 | 2 | 0.6 | 0.7 | * |
| Meningococcal infection (A39) | 11 | 9 | 2 | * | * | * |
| Septicemia (A40–A41) | 215 | 114 | 90 | 5.4 | 3.7 | 14.1 |
| Congenital syphilis (A50) | 2 | 1 | 1 | * | * | * |
| Gonococcal infection (A54) | – | – | – | * | * | * |
| Viral diseases (A80–B34) | 92 | 58 | 30 | 2.3 | 1.9 | 4.7 |
| Acute poliomyelitis (A80) | – | – | – | * | * | * |
| Varicella (chickenpox) (B01) | – | – | – | * | * | * |
| Measles (B05) | – | – | – | * | * | * |
| Human immunodeficiency virus (HIV) disease (B20–B24) | – | – | – | * | * | * |
| Mumps (B26) | – | – | – | * | * | * |
| Other and unspecified viral diseases (A81–B00,B02–B04,B06–B19,B25,B27–B34) | 92 | 58 | 30 | 2.3 | 1.9 | 4.7 |
| Candidiasis (B37) | 6 | 5 | 1 | * | * | * |
| Malaria (B50–B54) | – | – | – | * | * | * |
| Pneumocystosis (B59) | – | – | – | * | * | * |
| All other and unspecified infectious and parasitic diseases (A20–A32,A38,A42–A49, A51–A53,A55–A79,B35–B36,B38–B49,B55–B58,B60–B99) | 22 | 17 | 5 | 0.6 | * | * |
| Neoplasms (C00–D48) | 110 | 84 | 16 | 2.8 | 2.7 | * |
| Malignant neoplasms (C00–C97) | 62 | 47 | 8 | 1.6 | 1.5 | * |
| Hodgkin's disease and non-Hodgkin's lymphomas (C81–C85) | 2 | 2 | – | * | * | * |
| Leukemia (C91–C95) | 25 | 19 | 4 | 0.6 | * | * |
| Other and unspecified malignant neoplasms (C00–C80,C88,C90,C96–C97) | 35 | 26 | 4 | 0.9 | 0.8 | * |
| In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00–D48) | 48 | 37 | 8 | 1.2 | 1.2 | * |
| Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89) | 95 | 65 | 26 | 2.4 | 2.1 | 4.1 |
| Anemias (D50–D64) | 15 | 5 | 9 | * | * | * |
| Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65–D76) | 60 | 43 | 14 | 1.5 | 1.4 | * |
| Certain disorders involving the immune mechanism (D80–D89) | 20 | 17 | 3 | 0.5 | * | * |
| Endocrine, nutritional and metabolic diseases (E00–E88) | 188 | 135 | 43 | 4.7 | 4.4 | 6.8 |
| Short stature, not elsewhere classified (E34.3) | 2 | 2 | – | * | * | * |
| Nutritional deficiencies (E40–E64) | 3 | 2 | – | * | * | * |
| Cystic fibrosis (E84) | 5 | 5 | – | * | * | * |
| Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86–E87) | 48 | 27 | 19 | 1.2 | 0.9 | * |
| All other endocrine, nutritional and metabolic diseases (E00–E32,E34.0–E34.2, E34.4–E34.9,E65–E83,E85,E88) | 130 | 99 | 24 | 3.3 | 3.2 | 3.8 |
| Diseases of the nervous system (G00–G98) | 345 | 244 | 75 | 8.6 | 7.9 | 11.8 |
| Meningitis (G00,G03) | 58 | 33 | 19 | 1.5 | 1.1 | * |
| Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0) | 4 | 4 | – | * | * | * |
| Infantile cerebral palsy (G80) | 3 | 2 | 1 | * | * | * |
| Anoxic brain damage, not elsewhere classified (G93.1) | 39 | 25 | 11 | 1.0 | 0.8 | * |
| Other diseases of nervous system (G04,G06–G11,G12.1–G12.9,G20–G72, G81–G92,G93.0,G93.2–G93.9,G95–G98) | 241 | 180 | 44 | 6.0 | 5.9 | 6.9 |
| Diseases of the ear and mastoid process (H60–H93) | 3 | 2 | – | * | * | * |
| Diseases of the circulatory system (I00–I99) | 507 | 326 | 152 | 12.7 | 10.6 | 23.9 |
| Pulmonary heart disease and diseases of pulmonary circulation (I26–I28) | 90 | 52 | 32 | 2.3 | 1.7 | 5.0 |
| Pericarditis, endocarditis and myocarditis (I30,I33,I40) | 14 | 9 | 4 | * | * | * |
| Cardiomyopathy (I42) | 79 | 62 | 12 | 2.0 | 2.0 | * |
| Cardiac arrest (I46) | 18 | 11 | 6 | * | * | * |
| Cerebrovascular diseases (I60–I69) | 130 | 74 | 48 | 3.3 | 2.4 | 7.5 |
| All other diseases of circulatory system (I00–I25,I31,I34–I38,I44–I45,I47–I51,I70–I99) | 176 | 118 | 50 | 4.4 | 3.8 | 7.9 |
| Diseases of the respiratory system (J00–J98,U04) | 574 | 306 | 221 | 14.4 | 10.0 | 34.7 |
| Acute upper respiratory infections (J00–J06) | 15 | 12 | 2 | * | * | * |
| Influenza and pneumonia (J09–J18) | 195 | 101 | 73 | 4.9 | 3.3 | 11.5 |
| Influenza (J09–J11) | 16 | 6 | 6 | * | * | * |
| Pneumonia (J12–J18) | 179 | 95 | 67 | 4.5 | 3.1 | 10.5 |

See footnotes at end of table.

**Table 21. Number of infant deaths and infant mortality rates for 130 selected causes, by race: United States, 2010—Con.**

[Rates are infant deaths (under 1 year) per 100,000 live births in specified group. Infant deaths are based on race of decedent; live births are based on race of mother. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | Number | | | Rate | | |
|---|---|---|---|---|---|---|
| | All races[1] | White[2] | Black[2] | All races[1] | White[2] | Black[2] |
| Acute bronchitis and acute bronchiolitis (J20–J21) | 27 | 14 | 10 | 0.7 | * | * |
| Bronchitis, chronic and unspecified (J40–J42) | 25 | 13 | 6 | 0.6 | * | * |
| Asthma (J45–J46) | 6 | 5 | 1 | * | * | * |
| Pneumonitis due to solids and liquids (J69) | 18 | 8 | 9 | * | * | * |
| Other and unspecified diseases of respiratory system (J22,J30–J39, J43–J44,J47–J68,J70–J98,U04) | 288 | 153 | 120 | 7.2 | 5.0 | 18.9 |
| Diseases of the digestive system (K00–K92) | 204 | 141 | 53 | 5.1 | 4.6 | 8.3 |
| Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50–K55) | 29 | 20 | 8 | 0.7 | 0.7 | * |
| Hernia of abdominal cavity and intestinal obstruction without hernia (K40–K46,K56) | 51 | 39 | 11 | 1.3 | 1.3 | * |
| All other and unspecified diseases of digestive system (K00–K28,K30–K38,K57–K92) | 124 | 82 | 34 | 3.1 | 2.7 | 5.3 |
| Diseases of the genitourinary system (N00–N95) | 126 | 73 | 42 | 3.2 | 2.4 | 6.6 |
| Renal failure and other disorders of kidney (N17–N19,N25,N27) | 100 | 56 | 35 | 2.5 | 1.8 | 5.5 |
| Other and unspecified diseases of genitourinary system (N00–N15,N20–N23,N26,N28–N95) | 26 | 17 | 7 | 0.7 | * | * |
| Certain conditions originating in the perinatal period (P00–P96) | 12,008 | 7,423 | 4,005 | 300.2 | 241.8 | 629.3 |
| Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00–P04) | 2,920 | 1,842 | 922 | 73.0 | 60.0 | 144.9 |
| Newborn affected by maternal hypertensive disorders (P00.0) | 85 | 49 | 34 | 2.1 | 1.6 | 5.3 |
| Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1–P00.9) | 87 | 56 | 27 | 2.2 | 1.8 | 4.2 |
| Newborn affected by maternal complications of pregnancy (P01) | 1,561 | 991 | 486 | 39.0 | 32.3 | 76.4 |
| Newborn affected by incompetent cervix (P01.0) | 431 | 242 | 154 | 10.8 | 7.9 | 24.2 |
| Newborn affected by premature rupture of membranes (P01.1) | 781 | 520 | 225 | 19.5 | 16.9 | 35.4 |
| Newborn affected by multiple pregnancy (P01.5) | 163 | 99 | 60 | 4.1 | 3.2 | 9.4 |
| Newborn affected by other maternal complications of pregnancy (P01.2–P01.4,P01.6–P01.9) | 186 | 130 | 47 | 4.7 | 4.2 | 7.4 |
| Newborn affected by complications of placenta, cord and membranes (P02) | 1,030 | 643 | 327 | 25.8 | 20.9 | 51.4 |
| Newborn affected by complications involving placenta (P02.0–P02.3) | 492 | 334 | 121 | 12.3 | 10.9 | 19.0 |
| Newborn affected by complications involving cord (P02.4–P02.6) | 39 | 26 | 10 | 1.0 | 0.8 | * |
| Newborn affected by chorioamnionitis (P02.7) | 497 | 281 | 196 | 12.4 | 9.2 | 30.8 |
| Newborn affected by other and unspecified abnormalities of membranes (P02.8–P02.9) | 2 | 2 | – | * | * | * |
| Newborn affected by other complications of labor and delivery (P03) | 110 | 73 | 33 | 2.8 | 2.4 | 5.2 |
| Newborn affected by noxious influences transmitted via placenta or breast milk (P04) | 47 | 30 | 15 | 1.2 | 1.0 | * |
| Disorders related to length of gestation and fetal malnutrition (P05–P08) | 4,233 | 2,362 | 1,669 | 105.8 | 77.0 | 262.2 |
| Slow fetal growth and fetal malnutrition (P05) | 85 | 48 | 34 | 2.1 | 1.6 | 5.3 |
| Disorders related to short gestation and low birth weight, not elsewhere classified (P07) | 4,148 | 2,314 | 1,635 | 103.7 | 75.4 | 256.9 |
| Extremely low birth weight or extreme immaturity (P07.0,P07.2) | 3,176 | 1,770 | 1,248 | 79.4 | 57.7 | 196.1 |
| Other low birth weight or preterm (P07.1,P07.3) | 972 | 544 | 387 | 24.3 | 17.7 | 60.8 |
| Disorders related to long gestation and high birth weight (P08) | – | – | – | * | * | * |
| Birth trauma (P10–P15) | 19 | 12 | 4 | * | * | * |
| Intrauterine hypoxia and birth asphyxia (P20–P21) | 314 | 214 | 76 | 7.9 | 7.0 | 11.9 |
| Intrauterine hypoxia (P20) | 136 | 92 | 35 | 3.4 | 3.0 | 5.5 |
| Birth asphyxia (P21) | 178 | 122 | 41 | 4.5 | 4.0 | 6.4 |
| Respiratory distress of newborn (P22) | 514 | 318 | 176 | 12.9 | 10.4 | 27.7 |
| Other respiratory conditions originating in the perinatal period (P23–P28) | 812 | 556 | 221 | 20.3 | 18.1 | 34.7 |
| Congenital pneumonia (P23) | 71 | 49 | 22 | 1.8 | 1.6 | 3.5 |
| Neonatal aspiration syndromes (P24) | 51 | 42 | 6 | 1.3 | 1.4 | * |
| Interstitial emphysema and related conditions originating in the perinatal period (P25) | 106 | 83 | 22 | 2.7 | 2.7 | 3.5 |
| Pulmonary hemorrhage originating in the perinatal period (P26) | 167 | 98 | 60 | 4.2 | 3.2 | 9.4 |
| Chronic respiratory disease originating in the perinatal period (P27) | 106 | 58 | 40 | 2.7 | 1.9 | 6.3 |
| Atelectasis (P28.0–P28.1) | 248 | 180 | 58 | 6.2 | 5.9 | 9.1 |
| All other respiratory conditions originating in the perinatal period (P28.2–P28.9) | 63 | 46 | 13 | 1.6 | 1.5 | * |
| Infections specific to the perinatal period (P35–P39) | 745 | 480 | 234 | 18.6 | 15.6 | 36.8 |
| Bacterial sepsis of newborn (P36) | 583 | 382 | 176 | 14.6 | 12.4 | 27.7 |
| Omphalitis of newborn with or without mild hemorrhage (P38) | 1 | 1 | – | * | * | * |
| All other infections specific to the perinatal period (P35,P37,P39) | 161 | 97 | 58 | 4.0 | 3.2 | 9.1 |
| Hemorrhagic and hematological disorders of newborn (P50–P61) | 556 | 396 | 140 | 13.9 | 12.9 | 22.0 |
| Neonatal hemorrhage (P50–P52,P54) | 469 | 337 | 118 | 11.7 | 11.0 | 18.5 |
| Hemorrhagic disease of newborn (P53) | 1 | 1 | – | * | * | * |
| Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55–P59) | 7 | 5 | – | * | * | * |

See footnotes at end of table.

**Table 21. Number of infant deaths and infant mortality rates for 130 selected causes, by race: United States, 2010—Con.**

[Rates are infant deaths (under 1 year) per 100,000 live births in specified group. Infant deaths are based on race of decedent; live births are based on race of mother. The asterisks (*) preceding the cause-of-death codes indicate that they are not part of the *International Classification of Diseases, Tenth Revision* (ICD–10), Second Edition; see Technical Notes]

| Cause of death (based on ICD–10, 2004) | Number | | | Rate | | |
|---|---|---|---|---|---|---|
| | All races[1] | White[2] | Black[2] | All races[1] | White[2] | Black[2] |
| Hematological disorders (P60–P61) | 79 | 53 | 22 | 2.0 | 1.7 | 3.5 |
| Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0–P70.2) | 3 | 2 | 1 | * | * | * |
| Necrotizing enterocolitis of newborn (P77) | 472 | 282 | 174 | 11.8 | 9.2 | 27.3 |
| Hydrops fetalis not due to hemolytic disease (P83.2) | 150 | 122 | 15 | 3.8 | 4.0 | * |
| Other perinatal conditions (P29,P70.3–P70.9,P71–P76,P78–P81,P83.0–P83.1, P83.3–P83.9,P90–P96) | 1,270 | 837 | 373 | 31.8 | 27.3 | 58.6 |
| Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) | 5,107 | 3,822 | 1,010 | 127.7 | 124.5 | 158.7 |
| Anencephaly and similar malformations (Q00) | 293 | 246 | 33 | 7.3 | 8.0 | 5.2 |
| Congenital hydrocephalus (Q03) | 105 | 79 | 17 | 2.6 | 2.6 | * |
| Spina bifida (Q05) | 15 | 11 | 4 | * | * | * |
| Other congenital malformations of nervous system (Q01–Q02,Q04,Q06–Q07) | 318 | 242 | 58 | 8.0 | 7.9 | 9.1 |
| Congenital malformations of heart (Q20–Q24) | 1,148 | 861 | 233 | 28.7 | 28.1 | 36.6 |
| Other congenital malformations of circulatory system (Q25–Q28) | 176 | 120 | 42 | 4.4 | 3.9 | 6.6 |
| Congenital malformations of respiratory system (Q30–Q34) | 399 | 284 | 95 | 10.0 | 9.3 | 14.9 |
| Congenital malformations of digestive system (Q35–Q45) | 88 | 58 | 18 | 2.2 | 1.9 | * |
| Congenital malformations of genitourinary system (Q50–Q64) | 457 | 346 | 88 | 11.4 | 11.3 | 13.8 |
| Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65–Q85) | 577 | 439 | 106 | 14.4 | 14.3 | 16.7 |
| Down's syndrome (Q90) | 85 | 60 | 16 | 2.1 | 2.0 | * |
| Edward's syndrome (Q91.0–Q91.3) | 470 | 363 | 83 | 11.8 | 11.8 | 13.0 |
| Patau's syndrome (Q91.4–Q91.7) | 244 | 170 | 63 | 6.1 | 5.5 | 9.9 |
| Other congenital malformations and deformations (Q10–Q18,Q86–Q89) | 542 | 397 | 116 | 13.6 | 12.9 | 18.2 |
| Other chromosomal abnormalities, not elsewhere classified (Q92–Q99) | 190 | 146 | 38 | 4.8 | 4.8 | 6.0 |
| Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99) | 3,052 | 1,930 | 994 | 76.3 | 62.9 | 156.2 |
| Sudden infant death syndrome (R95) | 2,063 | 1,311 | 668 | 51.6 | 42.7 | 105.0 |
| Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R53,R55–R94,R96–R99) | 989 | 619 | 326 | 24.7 | 20.2 | 51.2 |
| All other diseases (residual) | 20 | 12 | 8 | 0.5 | * | * |
| External causes of mortality (*U01,V01–Y84) | 1,551 | 990 | 490 | 38.8 | 32.3 | 77.0 |
| Accidents (unintentional injuries) (V01–X59) | 1,110 | 703 | 354 | 27.8 | 22.9 | 55.6 |
| Transport accidents (V01–V99) | 81 | 60 | 16 | 2.0 | 2.0 | * |
| Motor vehicle accidents (V02–V04,V09.0,V09.2,V12–V14,V19.0–V19.2, V19.4–V19.6,V20–V79,V80.3–V80.5,V81.0–V81.1,V82.0–V82.1,V83–V86, V87.0–V87.8,V88.0–V88.8,V89.0,V89.2) | 79 | 58 | 16 | 2.0 | 1.9 | * |
| Other and unspecified transport accidents (V01,V05–V06,V09.1,V09.3–V09.9, V10–V11,V15–V18,V19.3,V19.8–V19.9,V80.0–V80.2,V80.6–V80.9, V81.2–V81.9,V82.2–V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90–V99) | 2 | 2 | – | * | * | * |
| Falls (W00–W19) | 10 | 5 | 5 | * | * | * |
| Accidental discharge of firearms (W32–W34) | – | – | – | * | * | * |
| Accidental drowning and submersion (W65–W74) | 39 | 31 | 8 | 1.0 | 1.0 | * |
| Accidental suffocation and strangulation in bed (W75) | 629 | 386 | 217 | 15.7 | 12.6 | 34.1 |
| Other accidental suffocation and strangulation (W76–W77,W81–W84) | 218 | 134 | 74 | 5.5 | 4.4 | 11.6 |
| Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78–W80) | 58 | 33 | 17 | 1.5 | 1.1 | * |
| Accidents caused by exposure to smoke, fire and flames (X00–X09) | 21 | 17 | 4 | 0.5 | * | * |
| Accidental poisoning and exposure to noxious substances (X40–X49) | 6 | 4 | 1 | * | * | * |
| Other and unspecified accidents (W20–W31,W35–W64,W85–W99,X10–X39,X50–X59) | 48 | 33 | 12 | 1.2 | 1.1 | * |
| Assault (homicide) (*U01,X85–Y09) | 311 | 213 | 88 | 7.8 | 6.9 | 13.8 |
| Assault (homicide) by hanging, strangulation and suffocation (X91) | 15 | 14 | 1 | * | * | * |
| Assault (homicide) by discharge of firearms (*U01.4,X93–X95) | 11 | 8 | 3 | * | * | * |
| Neglect, abandonment and other maltreatment syndromes (Y06–Y07) | 82 | 47 | 32 | 2.1 | 1.5 | 5.0 |
| Assault (homicide) by other and unspecified means (*U01.0–*U01.3, *U01.5–*U01.9,X85–X90,X92,X96–X99,Y00–Y05,Y08–Y09) | 203 | 144 | 52 | 5.1 | 4.7 | 8.2 |
| Complications of medical and surgical care (Y40–Y84) | 22 | 15 | 5 | 0.6 | * | * |
| Other external causes (Y10–Y36) | 108 | 59 | 43 | 2.7 | 1.9 | 6.8 |

* Figure does not meet standards of reliability or precision; see Technical Notes.

– Quantity zero.

[1]Includes races other than white and black.

[2]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported, for deaths, by 37 states and the District of Columbia and, for births, by 38 states and the District of Columbia; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

**Table 22. Number of infant and neonatal deaths and mortality rates, by race for the United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, and by sex for the United States, 2010**

[Rates are infant (under 1 year) and neonatal (under 28 days) deaths per 1,000 live births in specified group. Infant deaths are based on race of decedent; live births are based on race of mother. See Technical Notes]

| Sex and area | Infant deaths | | | | | | Neonatal deaths | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All races[1] | | White[2] | | Black[2] | | All races[1] | | White[2] | | Black[2] | |
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| United States[3] | 24,586 | 6.15 | 15,954 | 5.20 | 7,401 | 11.63 | 16,188 | 4.05 | 10,612 | 3.46 | 4,769 | 7.49 |
| Male | 13,702 | 6.69 | 8,871 | 5.65 | 4,116 | 12.71 | 8,953 | 4.37 | 5,856 | 3.73 | 2,616 | 8.08 |
| Female | 10,884 | 5.57 | 7,083 | 4.73 | 3,285 | 10.51 | 7,235 | 3.71 | 4,756 | 3.18 | 2,153 | 6.89 |
| Alabama | 523 | 8.71 | 269 | 6.63 | 250 | 13.66 | 326 | 5.43 | 159 | 3.92 | 164 | 8.96 |
| Alaska | 43 | 3.75 | 23 | 3.26 | 5 | * | 22 | 1.92 | 13 | * | 5 | * |
| Arizona | 522 | 5.97 | 403 | 5.47 | 54 | 12.14 | 332 | 3.80 | 262 | 3.56 | 35 | 7.87 |
| Arkansas | 282 | 7.32 | 201 | 6.66 | 77 | 10.34 | 160 | 4.15 | 109 | 3.61 | 47 | 6.31 |
| California | 2,420 | 4.74 | 1,853 | 4.58 | 324 | 9.84 | 1,682 | 3.30 | 1,320 | 3.26 | 200 | 6.07 |
| Colorado | 392 | 5.91 | 330 | 5.55 | 47 | 13.13 | 287 | 4.33 | 239 | 4.02 | 36 | 10.06 |
| Connecticut | 199 | 5.28 | 134 | 4.50 | 61 | 11.59 | 150 | 3.98 | 104 | 3.49 | 45 | 8.55 |
| Delaware | 87 | 7.66 | 49 | 6.36 | 37 | 11.87 | 58 | 5.10 | 30 | 3.89 | 27 | 8.66 |
| District of Columbia | 72 | 7.86 | 16 | * | 56 | 10.48 | 50 | 5.46 | 11 | * | 39 | 7.30 |
| Florida | 1,403 | 6.54 | 773 | 5.04 | 610 | 11.33 | 934 | 4.35 | 514 | 3.35 | 406 | 7.54 |
| Georgia | 860 | 6.42 | 397 | 5.05 | 448 | 9.11 | 523 | 3.90 | 247 | 3.14 | 264 | 5.37 |
| Hawaii | 117 | 6.16 | 23 | 3.92 | 11 | * | 76 | 4.00 | 14 | * | 9 | * |
| Idaho | 112 | 4.83 | 105 | 4.75 | 1 | * | 63 | 2.72 | 61 | 2.76 | 1 | * |
| Illinois | 1,118 | 6.77 | 680 | 5.39 | 394 | 13.58 | 769 | 4.65 | 496 | 3.93 | 238 | 8.20 |
| Indiana | 640 | 7.62 | 476 | 6.65 | 153 | 14.96 | 417 | 4.97 | 321 | 4.48 | 87 | 8.51 |
| Iowa | 189 | 4.88 | 163 | 4.61 | 22 | 11.18 | 103 | 2.66 | 89 | 2.52 | 12 | * |
| Kansas | 253 | 6.22 | 204 | 5.71 | 40 | 12.35 | 174 | 4.28 | 139 | 3.89 | 28 | 8.65 |
| Kentucky | 379 | 6.79 | 316 | 6.43 | 61 | 11.12 | 185 | 3.32 | 160 | 3.25 | 24 | 4.38 |
| Louisiana | 474 | 7.60 | 176 | 4.86 | 287 | 11.75 | 265 | 4.25 | 96 | 2.65 | 163 | 6.67 |
| Maine | 70 | 5.40 | 66 | 5.39 | 3 | * | 49 | 3.78 | 46 | 3.76 | 2 | * |
| Maryland | 498 | 6.75 | 184 | 4.35 | 297 | 11.55 | 350 | 4.74 | 127 | 3.00 | 212 | 8.25 |
| Massachusetts | 323 | 4.43 | 231 | 4.03 | 68 | 7.22 | 241 | 3.31 | 172 | 3.00 | 50 | 5.31 |
| Michigan | 817 | 7.13 | 481 | 5.51 | 318 | 14.08 | 550 | 4.80 | 321 | 3.68 | 219 | 9.69 |
| Minnesota | 308 | 4.49 | 231 | 4.20 | 44 | 6.35 | 209 | 3.05 | 157 | 2.86 | 29 | 4.18 |
| Mississippi | 387 | 9.67 | 144 | 6.61 | 242 | 13.80 | 220 | 5.50 | 75 | 3.44 | 145 | 8.27 |
| Missouri | 507 | 6.61 | 362 | 5.78 | 139 | 11.84 | 318 | 4.14 | 220 | 3.51 | 93 | 7.92 |
| Montana | 71 | 5.89 | 61 | 5.86 | – | * | 42 | 3.48 | 37 | 3.55 | – | * |
| Nebraska | 136 | 5.25 | 107 | 4.72 | 26 | 13.40 | 96 | 3.70 | 72 | 3.18 | 21 | 10.82 |
| Nevada | 201 | 5.59 | 137 | 4.76 | 52 | 13.83 | 126 | 3.51 | 83 | 2.88 | 36 | 9.57 |
| New Hampshire | 51 | 3.96 | 47 | 3.90 | 3 | * | 27 | 2.10 | 25 | 2.07 | 1 | * |
| New Jersey | 514 | 4.81 | 275 | 3.64 | 202 | 10.39 | 369 | 3.45 | 196 | 2.60 | 142 | 7.30 |
| New Mexico | 157 | 5.64 | 126 | 5.48 | 5 | * | 95 | 3.41 | 79 | 3.43 | 2 | * |
| New York | 1,243 | 5.09 | 731 | 4.24 | 439 | 9.21 | 866 | 3.54 | 527 | 3.05 | 285 | 5.98 |
| North Carolina | 858 | 7.01 | 461 | 5.35 | 367 | 12.28 | 603 | 4.93 | 320 | 3.71 | 265 | 8.87 |
| North Dakota | 62 | 6.81 | 42 | 5.43 | 3 | * | 46 | 5.05 | 33 | 4.26 | 3 | * |
| Ohio | 1,072 | 7.71 | 695 | 6.27 | 360 | 14.78 | 728 | 5.23 | 486 | 4.38 | 230 | 9.44 |
| Oklahoma | 404 | 7.59 | 255 | 6.28 | 62 | 12.38 | 227 | 4.26 | 143 | 3.52 | 35 | 6.99 |
| Oregon | 225 | 4.94 | 192 | 4.72 | 14 | * | 153 | 3.36 | 129 | 3.17 | 9 | * |
| Pennsylvania | 1,039 | 7.25 | 696 | 6.28 | 325 | 12.62 | 736 | 5.14 | 503 | 4.54 | 218 | 8.47 |
| Rhode Island | 79 | 7.07 | 60 | 6.67 | 17 | * | 59 | 5.28 | 44 | 4.89 | 13 | * |
| South Carolina | 430 | 7.37 | 199 | 5.32 | 221 | 11.32 | 266 | 4.56 | 120 | 3.21 | 138 | 7.07 |
| South Dakota | 82 | 6.94 | 57 | 6.03 | 1 | * | 55 | 4.66 | 39 | 4.12 | – | * |
| Tennessee | 630 | 7.93 | 393 | 6.55 | 232 | 13.28 | 367 | 4.62 | 222 | 3.70 | 141 | 8.07 |
| Texas | 2,368 | 6.13 | 1,788 | 5.58 | 533 | 11.23 | 1,508 | 3.91 | 1,162 | 3.62 | 320 | 6.74 |
| Utah | 254 | 4.86 | 223 | 4.53 | 8 | * | 176 | 3.37 | 161 | 3.27 | 3 | * |
| Vermont | 26 | 4.18 | 26 | 4.35 | – | * | 14 | * | 14 | * | – | * |
| Virginia | 700 | 6.80 | 347 | 4.81 | 328 | 14.27 | 475 | 4.61 | 233 | 3.23 | 224 | 9.75 |
| Washington | 389 | 4.50 | 283 | 4.02 | 40 | 8.22 | 266 | 3.07 | 194 | 2.76 | 27 | 5.55 |
| West Virginia | 149 | 7.28 | 138 | 7.08 | 11 | * | 81 | 3.96 | 74 | 3.79 | 7 | * |
| Wisconsin | 400 | 5.84 | 280 | 4.88 | 102 | 14.61 | 263 | 3.84 | 185 | 3.22 | 69 | 9.88 |
| Wyoming | 51 | 6.75 | 45 | 6.37 | 1 | * | 31 | 4.10 | 29 | 4.10 | – | * |

See footnotes at end of table.

**Table 22. Number of infant and neonatal deaths and mortality rates, by race for the United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, and by sex for the United States, 2010—Con.**

[Rates are infant (under 1 year) and neonatal (under 28 days) deaths per 1,000 live births in specified group. Infant deaths are based on race of decedent; live births are based on race of mother. See Technical Notes]

| Sex and area | Infant deaths | | | | | | Neonatal deaths | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | All races[1] | | White[2] | | Black[2] | | All races[1] | | White[2] | | Black[2] | |
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| Puerto Rico | 341 | 8.09 | 330 | 8.75 | 10 | * | 242 | 5.74 | 233 | 6.18 | 8 | * |
| Virgin Islands | 13 | * | 3 | * | 10 | * | 9 | * | 2 | * | 7 | * |
| Guam | 48 | 14.05 | 1 | * | – | * | 29 | 8.49 | – | * | – | * |
| American Samoa | 14 | * | – | * | – | * | 8 | * | – | * | – | * |
| Northern Marianas | 4 | * | – | * | – | * | 2 | * | – | * | – | * |

* Figure does not meet standards of reliability or precision; see Technical Notes.

– Quantity zero.

[1]Includes races other than white and black.

[2]Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported, for deaths, by 37 states and the District of Columbia and, for births, by 38 states and the District of Columbia; see Technical Notes. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see Technical Notes.

[3]Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas.

# Technical Notes

## Nature and sources of data

Data in this report are based on information from all death certificates filed in the 50 states and the District of Columbia, and are processed by the Centers for Disease Control and Prevention's (CDC) National Center for Health Statistics (NCHS). Data for 2010 are based on records of deaths that occurred during 2010 and were received as of April 12, 2012.

The U.S. Standard Certificate of Death, which is used as a model by the states, was revised in 2003 (27). Prior to 2003, the standard certificate of death had not been revised since 1989 (28). This report includes data for 34 states (Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Kentucky, Maine, Michigan, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming) and the District of Columbia that used the 2003 revision of the U.S. Standard Certificate of Death in 2010, and for the remaining 16 states that collected and reported death data in 2010 based on the 1989 revision of the U.S. Standard Certificate of Death. Kentucky began using the 2003 revision of the U.S. Standard Certificate of Death in 2010, but for the first half of the year, some of the state's data were reported using the 1989 revision. Maine started using the 2003 revision in June, but most of the state's data for 2010 were reported using the 1989 revision.

Because most of the items presented in this report appear largely comparable despite changes to item wording and format in the 2003 death certificate revision, data from both groups of states are combined unless otherwise stated. Data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are included in tables showing data by state but are not included in U.S. totals.

Mortality statistics are based on information coded by the states and provided to NCHS through the Vital Statistics Cooperative Program, and on copies of original certificates received by NCHS from state registration offices. For the 2010 data year, all states, the District of Columbia, and New York City submitted part or all of the mortality medical data in electronic data files to NCHS. The remainder of the data was coded by NCHS from copies of death certificates. The territories submitted copies of death certificates from which NCHS entered and coded all data. All states submitted precoded demographic data for all deaths.

Data entry problems experienced by Georgia in 2008 and 2009 when the state began implementing the revised certificate were resolved for 2010 (19,22). Variables that were missing from Georgia's 2008 and 2009 demographic files are available in the 2010 file.

Data for the entire United States refer to events occurring within the United States. Data shown for geographic areas are by place of residence. Beginning with 1970, mortality statistics for the United States exclude deaths of nonresidents of the United States. All data exclude fetal deaths.

Mortality statistics for Puerto Rico, Virgin Islands, American Samoa, and Northern Marianas exclude deaths of nonresidents for each area. For Guam, however, mortality statistics exclude deaths that occurred to a resident of any place other than Guam or the United States (50 states and the District of Columbia).

## Cause-of-death classification

The mortality statistics presented in this report were compiled in accordance with World Health Organization (WHO) regulations, which specify that member nations classify and code causes of death in accordance with the current revision of the *International Classification of Diseases* (ICD). ICD provides the basic guidance used in virtually all countries to code and classify causes of death. Effective with deaths occurring in 1999, the United States began using the Tenth Revision of this classification (ICD–10) (29). In 2004, the second edition of ICD–10 was adopted (6). For earlier years, causes of death were classified according to the revisions then in use: 1979–1998, Ninth Revision; 1968–1978, Eighth Revision, adapted for use in the United States; 1958–1967, Seventh Revision; and 1949–1957, Sixth Revision.

Changes in classification of causes of death due to these revisions may result in discontinuities in cause-of-death trends. Consequently, cause-of-death comparisons among revisions require consideration of comparability ratios and, where available, estimates of their standard errors. Comparability ratios between the Ninth and Tenth revisions, Eighth and Ninth revisions, Seventh and Eighth revisions, and Sixth and Seventh revisions may be found in other NCHS reports and independent tabulations (30–35).

Rules for coding a cause or causes of death may sometimes require modification when evidence suggests it will improve the quality of cause-of-death data. Prior to 1999, such modifications were made only when a new ICD revision was implemented. A process for updating ICD was introduced with ICD–10 that allows for midrevision changes. These changes, however, may affect comparability of data between years for selected causes of death. The changes to ICD–10 that were implemented in data year 2010 are discussed in subsequent sections of this report.

ICD not only details disease classification but also provides definitions, tabulation lists, the format of the death certificate, and the rules for coding cause of death. Cause-of-death data presented in this publication were coded by procedures outlined in annual issues of the NCHS Instruction Manual (36,37). ICD includes rules for selecting the underlying cause of death and regulations on the use of ICD.

Before data year 1968, mortality medical data were based on manual coding of an underlying cause of death for each certificate in accordance with WHO rules. Effective with data year 1968, NCHS converted to computerized coding of the underlying cause and manual coding of all causes (multiple causes) on the death certificate. In this system, called "Automated Classification of Medical Entities" (ACME) (38), multiple-cause codes are inputted to computer software that uses WHO rules to select the underlying cause. All cause-of-death data in this report are coded using ACME.

The ACME system is used to select the underlying cause of death for all death certificates in the United States. In addition, NCHS developed two computer systems as inputs to ACME. Beginning with 1990 data, the Mortality Medical Indexing, Classification, and Retrieval system (MICAR) (39,40) was introduced to automate the coding of multiple causes of death. In addition, MICAR provides more detailed information on the conditions reported on death certificates than is available through ICD code structure. Beginning with data year 1993, SuperMICAR, an enhancement of the MICAR system, was introduced, allowing for literal entry of the multiple cause-of-death text as reported by the certifier. This information is then automatically processed by the

MICAR and ACME computer systems. Records that cannot be automatically processed by MICAR or SuperMICAR are manually multiple-cause coded and then further processed through ACME. In 2010, SuperMICAR was used to process all of the nation's death records.

In this report, tabulations of cause-of-death statistics are based solely on the underlying cause of death. The underlying cause is defined by WHO as "the disease or injury which initiated the train of events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury" (6). The underlying cause is selected from the conditions entered by the medical certifier in the cause-of-death section of the death certificate. When more than one cause or condition is entered by the medical certifier, the underlying cause is determined by the sequence of conditions on the certificate, provisions of ICD, and associated selection rules and modifications. Generally, more medical information is reported on death certificates than is directly reflected in the underlying cause of death. This is captured in NCHS multiple cause-of-death statistics (41–43).

## Tabulation lists and cause-of-death ranking

Tabulation lists for ICD–10 are published in the NCHS Instruction Manual, Part 9, "ICD–10 Cause-of-Death Lists for Tabulating Mortality Statistics" (updated March 2009 to include WHO updates to ICD–10 for data year 2009) (44). For this report, two tabulation lists are used: List of 113 Selected Causes of Death and Enterocolitis due to *Clostridium difficile* (the title of which was modified in 2009 to include Enterocolitis due to *Clostridium difficile*), used for deaths of all ages, and List of 130 Selected Causes of Infant Death, used for infants (44). These lists are also used to rank leading causes of death for the two population groups. For the list of 113 causes, the group titles of Major cardiovascular diseases (ICD–10 codes I00–I78), and Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99), are not ranked. In addition, category titles that begin with the words "other" and "all other" are not ranked to determine the leading causes of death. When one of the titles that represents a subtotal is ranked—for example, Tuberculosis (A16–A19)—its component parts are not ranked: in this case, Respiratory tuberculosis (A16) and Other tuberculosis (A17–A19). For the list of 130 causes of infant death, the same ranking procedures are used except that the category of major cardiovascular diseases is not on the list. More detail regarding ranking procedures can be found in "Deaths: Leading Causes for 2010" (3).

Leading cause-of-death trends discussed in this report are based on cause-of-death data according to ICD–10 for 1999–2010 and ICD–9 for the most comparable cause-of-death titles for 1979–1998. Tables showing ICD–9 categories that are comparable with ICD–10 titles in the List of 113 Selected Causes of Death may be found in "Comparability of Cause of Death between ICD–9 and ICD–10: Preliminary Estimates" (32) and "Deaths: Final Data for 1999" (45). Although, in some cases, categories from the List of 113 Selected Causes of Death are identical to those in the earlier List of 72 Selected Causes of Death used with ICD–9, caution must be used because many of these categories are not comparable even though the cause-of-death titles may be the same.

Trend data for 1979–1998 that are classified by ICD–9 but sorted into the List of 113 Selected Causes of Death developed for ICD–10 can be found on the mortality website at http://www.cdc.gov/nchs/data/statab/hist001r.pdf.

Revision of ICD and resulting changes in classification and rules for selecting the underlying cause of death have important implications for the analysis of mortality trends by cause of death. For some causes of death, the discontinuity in trend can be substantial (30,32). Therefore, considerable caution should be used in analyzing cause-of-death trends for periods of time that extend across more than one revision of ICD.

## Codes added and deleted in 2010

No codes were added or deleted in 2010. Information on new categories added and deleted in 2009 can be found at http://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2009.pdf (44).

## Codes for terrorism

Beginning with data for 2001, NCHS introduced categories U01–U03 for classifying and coding deaths due to acts of terrorism. The asterisks before the category codes indicate that they are not part of ICD–10. Deaths classified to the terrorism categories are included in the 113 causes of death list in the categories for Assault (homicide) and Intentional self-harm (suicide), and in the 130 causes of death list for infants in the category for Assault (homicide). Additional information on these new categories is available from http://www.cdc.gov/nchs/icd/terrorism_code.htm. No deaths were assigned to the terrorism categories in 2010.

## Enterocolitis due to *Clostridium difficile*

The number of deaths from Enterocolitis due to *Clostridium difficile* (*C. difficile*) (ICD–10 code A04.7) has increased dramatically in recent years, from 793 deaths in 1999 to 7,298 deaths in 2010. Data for *C. difficile* are included in tables showing data for 113 selected causes of death in "Certain other intestinal infections (A04, A07–A09)," but were not identified separately until 2006. Because of the increasing importance of this cause of death, beginning with data year 2006, data for *C. difficile* are shown separately at the bottom of tables showing 113 selected causes, and *C. difficile* was added to the list of rankable causes.

## Quality of reporting and processing cause of death

One index of the quality of reporting causes of death is the proportion of death certificates coded to Chapter XVIII—Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (ICD–10 codes R00–R99). Although which deaths occur for which underlying causes are impossible to determine, the proportion coded to R00–R99 indicates the consideration given to the cause-of-death statement by the medical certifier. This proportion also may be used as a rough measure of specificity of medical diagnoses made by the certifier in various areas. The percentage of

all reported deaths in the United States assigned to Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified, decreased from 1.63 in 2009 to 1.55 in 2010. In 2009, some records that were pending investigation were not updated due to a system error. Many of these deaths were likely assigned to Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified. In 2009, data for New Jersey, Ohio, and West Virginia included an unusually high percentage of deaths assigned to R99 (Other ill-defined and unspecified causes of mortality). The system error causing this problem was corrected for 2010 final data.

In 2010, due to a system error, most deaths assigned to Other specified disorders of teeth and supporting structures (K08.8) should instead have been assigned to lung hemorrhage. In 2010, 127 deaths were assigned to K08.8. Because the number of deaths is relatively small, this error did not significantly affect any category in tables appearing in this report that show data by cause of death.

The increase in deaths from Diseases of salivary glands (K11) was due, at least in part, to a system error that resulted in some deaths that should have been coded to Pneumonitis due to food and vomit (J69.0) instead being assigned to K11. In 2010, 202 deaths were assigned to K11, more than double the number in 2009. Because the number of deaths from this cause is relatively small, this error did not significantly affect any category in tables appearing in this report that show data by cause of death. The error will be corrected in the final data for 2011.

Rules for coding a cause or causes of death may sometimes require modification when evidence suggests it will improve the quality of cause-of-death data. These changes, however, may affect comparability of data between years for selected causes of death. The implementation of changes in coding rules in 2010 had an impact on several mortality causes—and the comparison of 2010 and 2009 data for these causes—in the following ways:

- In 2009, ICD–10 code A09 was expanded from a 3-digit code to two 4-digit codes (A09.0 and A09.9). This expansion allowed for greater specificity, resulting in an increase in the number of deaths classified to A09. However, many deaths that should have been assigned to Gastroenteritis and colitis of unspecified origin (A09.9) were instead assigned to Other and unspecified gastroenteritis and colitis of infectious origin (A09.0) in 2009. The coding rules were changed in 2010 to correct this error. The effect of this correction was a large increase in deaths assigned to A09.9 and a large decrease in in deaths assigned to A09.0 between 2009 and 2010.
- A coding change in 2010 may have contributed to the increase in deaths from Acute posthaemorrhagic anaemia (D62) (38). The number of deaths assigned to D62 increased 48% from 86 deaths in 2009 to 127 deaths in 2010.
- In 2009, the title for ICD–10 code J09 was changed from Influenza due to identified avian influenza virus to Influenza due to certain identified influenza virus. The reason for this change was to accommodate deaths from influenza A (H1N1) virus in J09 for the 2009 data year. In April 2009, the new influenza A (H1N1) virus was determined to be a cause of influenza illness in the United States (46). In 2009, 1,557 deaths were classified to J09. The number of deaths classified to J09 in 2010 fell to 226.

Details on coding and classification rule changes can be found in the instruction manual "ICD–10 ACME Decision Tables for Classifying Underlying Causes of Death, 2010," available from: http://www.cdc.gov/nchs/data/dvs/2C_2010acc.pdf (38).

## Rare causes of death

Selected causes of death considered to be of public health concern are supposed to be routinely confirmed by states according to agreed-upon procedures between state vital statistics programs and NCHS. These causes, termed infrequent and rare causes of death, are listed in the NCHS Instruction Manual, Parts 2a, 11, and 20 (36,47,48). In 2010, some states did not confirm some or all deaths from rare causes.

## Injury mortality by mechanism and intent

Injury mortality data are presented using the external cause-of-injury mortality matrix for ICD–10 (Table 18). In this framework, cause-of-injury deaths are organized principally by mechanism (e.g., firearm or poisoning), and secondarily by manner or intent of death (e.g., unintentional, suicide, or homicide).

The number of deaths for selected causes in this framework may differ from those shown in tables that use the standard mortality tabulation lists. Following WHO conventions, standard mortality tabulations (Table 10) present external causes of death (ICD–10 codes U01–U03 and V01–Y89); in contrast, the matrix (Table 18) excludes deaths classified as Complications of medical and surgical care (Y40–Y84 and Y88). For additional information on injury data presented in this framework, see "Deaths: Injuries, 2002," available from http://www.cdc.gov/nchs/data/nvsr/nvsr54/nvsr54_10.pdf (49). Data for later years are available through CDC's WONDER system at http://wonder.cdc.gov/ or through CDC's Web-based Injury Statistics Query and Reporting System (WISQARS) at http://www.cdc.gov/injury/wisqars/index.html. Implementation of changes to ICD–10 may affect the matrix, requiring modification of codes in selected categories. No changes were made to the matrix in 2010. For more information on the latest ICD–10 external cause-of-injury codes included in the matrix, see http://www.cdc.gov/nchs/injury/injury_tools.htm.

## Codes for firearm deaths

Causes of death attributable to firearm mortality include ICD–10 codes *U01.4, Terrorism involving firearms (homicide); W32–W34, Accidental discharge of firearms; X72–X74, Intentional self-harm (suicide) by discharge of firearms; X93–X95, Assault (homicide) by discharge of firearms; Y22–Y24, Discharge of firearms, undetermined intent; and Y35.0, Legal intervention involving firearm discharge. Deaths from injury by firearms exclude deaths due to explosives and other causes indirectly related to firearms.

## Codes for drug-induced deaths

Causes of death attributable to drug-induced mortality include ICD–10 codes D52.1, Drug-induced folate deficiency anemia; D59.0, Drug-induced hemolytic anemia; D59.2, Drug-induced nonautoimmune hemolytic anemia; D61.1, Drug-induced aplastic anemia; D64.2, Secondary sideroblastic anemia due to drugs and toxins; E06.4, Drug-induced thyroiditis; E16.0, Drug-induced hypoglycemia without coma; E23.1, Drug-induced hypopituitarism; E24.2, Drug-

induced Cushing's syndrome; E27.3, Drug-induced adrenocortical insufficiency; E66.1, Drug-induced obesity; selected codes from the ICD–10 title of mental and behavioral disorders due to psychoactive substance use, specifically, F11.1–F11.5, F11.7–F11.9, F12.1–F12.5, F12.7–F12.9, F13.1–F13.5, F13.7–F13.9, F14.1–F14.5, F14.7–F14.9, F15.1–F15.5, F15.7–F15.9, F16.1–F16.5, F16.7–F16.9, F17.3–F17.5, F17.7–F17.9, F18.1–F18.5, F18.7–F18.9, F19.1–F19.5, and F19.7–F19.9; G21.1, Other drug-induced secondary parkinsonism; G24.0, Drug-induced dystonia; G25.1, Drug-induced tremor; G25.4, Drug-induced chorea; G25.6, Drug-induced tics and other tics of organic origin; G44.4, Drug-induced headache, not elsewhere classified; G62.0, Drug-induced polyneuropathy; G72.0, Drug-induced myopathy; I95.2, Hypotension due to drugs; J70.2, Acute drug-induced interstitial lung disorders; J70.3, Chronic drug-induced interstitial lung disorders; J70.4, Drug-induced interstitial lung disorder, unspecified; K85.3, Drug-induced acute pancreatitis; L10.5, Drug-induced pemphigus; L27.0, Generalized skin eruption due to drugs and medicaments; L27.1, Localized skin eruption due to drugs and medicaments; M10.2, Drug-induced gout; M32.0, Drug-induced systemic lupus erythematosus; M80.4, Drug-induced osteoporosis with pathological fracture; M81.4, Drug-induced osteoporosis; M83.5, Other drug-induced osteomalacia in adults; M87.1, Osteonecrosis due to drugs; R50.2, Drug-induced fever; R78.1, Finding of opiate drug in blood; R78.2, Finding of cocaine in blood; R78.3, Finding of hallucinogen in blood; R78.4, Finding of other drugs of addictive potential in blood; R78.5, Finding of psychotropic drug in blood; X40–X44, Accidental poisoning by and exposure to drugs, medicaments and biological substances; X60–X64, Intentional self-poisoning (suicide) by and exposure to drugs, medicaments and biological substances; X85, Assault (homicide) by drugs, medicaments and biological substances; and Y10–Y14, Poisoning by and exposure to drugs, medicaments and biological substances, undetermined intent. Drug-induced causes exclude accidents, homicides, and other causes indirectly related to drug use, as well as newborn deaths associated with the mother's drug use.

## Codes for alcohol-induced deaths

Causes of death attributable to alcohol-induced mortality include ICD–10 codes E24.4, Alcohol-induced pseudo-Cushing's syndrome; F10, Mental and behavioral disorders due to alcohol use; G31.2, Degeneration of nervous system due to alcohol; G62.1, Alcoholic polyneuropathy; G72.1, Alcoholic myopathy; I42.6, Alcoholic cardiomyopathy; K29.2, Alcoholic gastritis; K70, Alcoholic liver disease; K85.2, Alcohol-induced acute pancreatitis; K86.0, Alcohol-induced chronic pancreatitis; R78.0, Finding of alcohol in blood; X45, Accidental poisoning by and exposure to alcohol; X65, Intentional self-poisoning by and exposure to alcohol; and Y15, Poisoning by and exposure to alcohol, undetermined intent. Alcohol-induced causes exclude accidents, homicides, and other causes indirectly related to alcohol use, as well as newborn deaths associated with maternal alcohol use.

## Race and Hispanic origin

The 2003 revision of the U.S. Standard Certificate of Death allows the reporting of more than one race (multiple races) (27). This change was implemented to reflect the increasing diversity of the population of the United States and to be consistent with the decennial census. The race and ethnicity items on the revised certificate are compliant with the 1997 "Revision of the Standards for the Classification of Federal Data on Race and Ethnicity," issued by the Office of Management and Budget (OMB) (9). This revision replaced standards that were issued in 1977 (50). The new standards mandate the collection of more than one race where applicable for federal data (9). In addition, the new certificate is compliant with the OMB-mandated minimum set of five races to be reported for federal data. Multiple race includes any combination of white, black or African American, American Indian or Alaska Native (AIAN), Asian, and Native Hawaiian or Other Pacific Islander (NHOPI). If two or more specific subgroups such as Korean and Chinese are reported, these count as a single race of Asian rather than as multiple races.

The number of states reporting multiple race increased, from 7 states in 2003 to 37 states and the District of Columbia in 2010 (Table I). In 2010, more than one race was reported for 0.4% of the records in the 37 states and the District of Columbia that reported multiple race (Table II). Although still uncommon, multiple races were reported more often for younger decedents than for older decedents (2.4% of decedents under age 25 years compared with 0.6% of decedents aged 25–64 and 0.3% of decedents aged 65 and over). No decedent was reported as having more than four races. The race category reported most often in combination with one or more other races was NHOPI. In 2010, more than one race was reported on 45.9% of records reporting NHOPI on the death certificate, 21.5% of records reporting AIAN, 5.9% of records reporting Asian, 0.9% of records reporting black, and 0.4% of records reporting white.

Data from vital records based on the 1989 revision of the U.S. Standard Certificate of Death follow the 1977 OMB standard, allowing only a single race to be reported (28,50). The 1977 standard stipulates that states must report a minimum set of four races: white, black or African American, AIAN, and Asian or Pacific Islander (API). Under these standards, data for API persons were collected as a single group; that is, data for Asian persons were not reported separately from NHOPI persons (50). The 1997 OMB guidelines provide for the reporting of Asian persons separately from NHOPI persons (9).

Some death certificates currently collect only one race for the decedent in the same categories as specified in the 1977 OMB guidelines; therefore, death certificate data by race—the source of the numerators for death rates—are currently incompatible with the population data collected in the 2000 and 2010 censuses and intercensal estimates for 1991–1999 and 2001–2009—the denominators for the rates. To produce death rates by race, the reported population data for multiple-race persons had to be "bridged" to single-race categories. To provide uniformity and comparability of data during the transition period, before all or most of the data become available in the multiple-race format, the responses of those for whom more than one race was reported must be "bridged" to a single race. The bridging procedure is similar to that used to bridge multiracial population estimates (10,51). Multiracial decedents are imputed to a single race (white, black, AIAN, or API) according to their combination of races, Hispanic origin, sex, and age indicated on the death certificate. The imputation procedure is described in detail at http://www.cdc.gov/nchs/data/dvs/Multiple_race_documentation_5-10-04.pdf. Similarly, when calculating infant mortality rates, multiracial infants are bridged to a single race. The bridging procedure for multiple-race mothers and fathers is based

**Table I. Year state started reporting multiple race and year state began using the revised standard certificate of death: Each state, 2003–2010**

| State | Year[1] state began reporting multiple race | Year state began using the 2003 standard certificate |
|---|---|---|
| Alabama | ... | ... |
| Alaska | ... | ... |
| Arizona | 2010 | 2010 |
| Arkansas | 2008 | 2008 |
| California | 2003 | 2003 |
| Colorado | ... | ... |
| Connecticut | 2005 | 2005 |
| Delaware | 2007 | 2007 |
| District of Columbia | [2]2005 | [3]2005 |
| Florida | 2005 | 2005 |
| Georgia | 2008 | 2008 |
| Hawaii | 2003 | ... |
| Idaho | 2003 | 2003 |
| Illinois | 2008 | 2008 |
| Indiana | 2008 | 2008 |
| Iowa | ... | ... |
| Kansas | 2005 | 2005 |
| Kentucky | [4]2010 | [5]2010 |
| Louisiana | ... | ... |
| Maine | 2003 | [6]2010 |
| Maryland | ... | ... |
| Massachusetts | ... | ... |
| Michigan | 2004 | 2004 |
| Minnesota | 2004 | ... |
| Mississippi | ... | ... |
| Missouri | 2010 | 2010 |
| Montana | 2003 | 2003 |
| Nebraska | 2005 | 2005 |
| Nevada | 2008 | 2008 |
| New Hampshire | [7]2004 | [8]2004 |
| New Jersey | 2004 | 2004 |
| New Mexico | 2006 | 2006 |
| New York | 2003 | 2003 |
| North Carolina | ... | ... |
| North Dakota | 2008 | 2008 |
| Ohio | 2007 | 2007 |
| Oklahoma | 2004 | 2004 |
| Oregon | 2006 | 2006 |
| Pennsylvania | ... | ... |
| Rhode Island | 2006 | 2006 |
| South Carolina | 2005 | 2005 |
| South Dakota | 2004 | 2004 |
| Tennessee | ... | ... |
| Texas | 2006 | 2006 |
| Utah | 2005 | 2005 |
| Vermont | [4]2008 | [5]2008 |
| Virginia | ... | ... |
| Washington | 2004 | 2004 |
| West Virginia | ... | ... |
| Wisconsin | 2003 | ... |
| Wyoming | 2004 | 2004 |

... Not applicable.

[1]Indicates year in which NCHS first received multiple-race data from the state, although the state may have begun collecting such data at an earlier date.

[2]Began reporting multiple race in March. [3]Began implementing the revised certificate in March.

[4]Began reporting multiple race in July. [5]Began implementing the revised certificate in July.

[6]Began implementing the revised certificate in June.

[7]Began reporting multiple race in mid-April.

[8]Began implementing the revised certificate in mid-April.

on the procedure used to bridge the multiple-race population estimates (26); see the following subsection on "*Infant mortality rates*."

Race and Hispanic origin are reported separately on the death certificate. Therefore, data shown by race include persons of Hispanic and non-Hispanic origin, and data for Hispanic origin include persons of any race. In this report, unless otherwise specified, deaths of persons of Hispanic origin are included in the totals for each race group—white, black, AIAN, and API—according to the decedent's race as reported on the death certificate.

Mortality data for the Hispanic-origin population are based on deaths of residents of all 50 states and the District of Columbia.

*Quality of race and Hispanic origin data*—Death rates for Hispanic, AIAN, and API persons should be interpreted with caution because of inconsistencies in reporting Hispanic origin or race on the death certificate compared with censuses, surveys, and birth certificates. Studies have shown underreporting on death certificates of AIAN, API, and Hispanic decedents, as well as undercounts of these groups in censuses (9,12,52,53).

A number of studies have been conducted on the reliability of race reported on the death certificate by comparing it with race reported on another data collection instrument, such as the census or a survey (9,12,52,53). Inconsistencies may arise because of differences in who provides race information on the compared records. Race information on the death certificate is reported by a funeral director as provided by an informant or, in the absence of an informant, on the basis of observation. In contrast, race on the census or the U.S. Census Bureau's American Community Survey (ACS) is obtained while the person is alive; in these cases, race is self-reported or reported by another member of the household familiar with the person and, therefore, may be considered more valid. A high level of agreement between the death certificate and the census or survey report is essential to ensure unbiased death rates by race.

Studies (52,53) show that a person self-reported as AIAN or API on census or survey records was sometimes reported as white on the death certificate. The net effect of misclassification is an underestimation of deaths and death rates for races other than white and black. In addition, undercoverage of minority groups in the census and resultant population estimates introduces biases into death rates by race (9,12,52–55). Unlike the 1990 census, coverage error in the 2000 census was found to be statistically significant only for the non-Hispanic white population (overcounted by approximately 1.13%) and non-Hispanic black population (undercounted by approximately 1.84%) (55). Overall, the 2010 census coverage error was minor with a net overcount of 0.01%. The net undercounts were statistically different from zero for the following groups: non-Hispanic black (2.06%), non-Hispanic white (–0.83%), Hispanic (1.54%), and AIAN (4.88% on reservations and –1.95% off reservations) populations. The net undercounts were not statistically different from zero for the Asian (0.08%) and NHOPI (1.34%) populations (56).

Using the National Longitudinal Mortality Study, Arias et al. examined the reliability of race and Hispanic origin reported on about 250,000 death certificates compared with that reported on a total of 26 Current Population Surveys (CPSs) conducted by the U.S. Census Bureau for 1979–1998 (12,13). Agreement between the two sources was found to be excellent for the white and black populations, both exhibiting CPS-to-death certificate ratios of 1.00. On the other hand,

**Table II. Deaths by race: Arizona, Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Kansas, Kentucky, Maine, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, Wisconsin, and Wyoming, 2010**

[By state of occurrence]

| Race | Deaths | Percent of deaths |
|---|---|---|
| Total | 1,803,680 | 100.0 |
| One race | 1,796,251 | 99.6 |
| White | 1,541,441 | 85.5 |
| Black | 186,142 | 10.3 |
| Asian | 41,455 | 2.3 |
| Other[1] | 13,059 | 0.7 |
| AIAN[2] | 12,080 | 0.7 |
| NHOPI[3] | 2,074 | 0.1 |
| Two or more races | 7,429 | 0.4 |
| Two races | 6,875 | 0.4 |
| AIAN[2] and white | 2,826 | 0.2 |
| Asian and white | 1,246 | 0.1 |
| Black and white | 971 | 0.1 |
| Asian and NHOPI[3] | 699 | 0.0 |
| NHOPI[3] and white | 590 | 0.0 |
| Black and AIAN[2] | 285 | 0.0 |
| Black and Asian | 170 | 0.0 |
| Black and NHOPI[3] | 51 | 0.0 |
| AIAN[2] and Asian | 28 | 0.0 |
| AIAN[2] and NHOPI[3] | 9 | 0.0 |
| Three races | 535 | 0.0 |
| Asian, NHOPI[3], and white | 374 | 0.0 |
| Black, AIAN[2], and white | 93 | 0.0 |
| AIAN[2], Asian, and white | 20 | 0.0 |
| Black, Asian, and white | 17 | 0.0 |
| Black, AIAN[2], and Asian | 9 | 0.0 |
| AIAN[2], NHOPI[3], and white | 9 | 0.0 |
| Black, NHOPI[3], and white | 8 | 0.0 |
| AIAN[2], Asian, and NHOPI[3] | 4 | 0.0 |
| Black, Asian, and NHOPI[3] | 1 | 0.0 |
| Four races | 19 | 0.0 |
| AIAN[2], Asian, NHOPI[3], and white | 10 | 0.0 |
| Black, Asian, AIAN[2], and white | 4 | 0.0 |
| Black, Asian, NHOPI[3], and white | 3 | 0.0 |
| Black, AIAN[2], NHOPI[3], and white | 2 | 0.0 |

0.0 Quantity more than zero but less than 0.05.

[1]Includes records for which race was reported as "other." Future processing assigns "other" race to one of the recognized categories. "Other" race comprises a wide variety of responses; however, the most common is to check "other" and not provide further specification or to report a Hispanic group as a race.

[2]AIAN is American Indian or Alaska Native.

[3]NHOPI is Native Hawaiian or Other Pacific Islander.

substantial differences were found for other race groups. The ratio of CPS to death certificates was found to be 1.30 for the AIAN population and 1.07 for the API population, indicating net underreporting on death certificates of 30% for AIAN and 7% for API. The ratio of deaths for CPS to death certificates for Hispanics was found to be 1.05, indicating a net underreporting on death certificates for the Hispanic population of 5%.

Data on the Central and South American and Other Hispanic origin populations are affected by whether a state submits literal text to NCHS, thereby making it possible to identify decedents as being of Central and South American origin. Before 2008, decedents identified as "Dominican" were classified as Central and South American. Starting in 2008, Dominican decedents are included among "Other and unknown Hispanic" and are no longer counted among Central and South American decedents. Data year 1997 was the first year in which mortality data for the Hispanic population were available for the entire United States.

*Other races and race not stated*—Beginning in 1992, all records coded as "other races" (0.42% of total deaths in 2010) were assigned to the specified race of the previous record. Records for which race was unknown, not stated, or not classifiable (0.14%) were assigned the racial designation of the previous record.

*Infant mortality rates*—For 1989–2010, as in previous years, infant deaths continue to be tabulated by the race of the decedent. However, beginning with the 1989 data year, the method of tabulating live births by race was changed from race of parents to race of mother, as stated on the birth certificate (57). This change affects infant mortality rates because live births are the denominators of these rates

(58,59). To improve continuity and ease of interpretation, trend data by race in this report have been retabulated by race of mother for all years beginning with the 1980 data year.

Quantitatively, the change in the basis for tabulating live births by race of mother results in more white births and fewer black births and births of other races. Consequently, infant mortality rates under the new tabulating procedure tend to be about 2% lower for white infants and about 5% higher for black infants than when they are computed by the previous method of tabulating live births by race of parents. Rates for most other minority races also are higher when computed by race of mother (59).

In 2010, multiple race was reported on the revised birth certificates of California, Colorado, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana (for births occurring after January 1), Maryland, Michigan, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, New York, North Carolina (for births occurring after January 1), North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Washington, and Wyoming, and on the unrevised birth certificates of Hawaii, Minnesota, and Rhode Island (60).

Infant mortality rates for the Hispanic-origin population are based on numbers of resident infant deaths reported to be of Hispanic origin and numbers of resident live births by Hispanic origin of mother for the United States. In computing infant mortality rates, deaths and live births of unknown origin are not distributed among the specified Hispanic and non-Hispanic groups. In the United States in 2010, the percentage of infant deaths of unknown origin was 0.9%, and the percentage of live births to mothers of unknown origin was 0.7%.

Small numbers of infant deaths for specific Hispanic-origin groups result in infant mortality rates subject to relatively large random variation (see following section on "Random variation").

Infant mortality rates calculated from the general mortality file for specified race and Hispanic origin contain errors because of reporting problems that affect the classification of race and Hispanic origin on the birth and death certificates for the same infant. Infant mortality rates by specified race and Hispanic origin are more accurate when based on the linked file of infant deaths and live births (26). The linked file computes infant mortality rates using the race and Hispanic origin of the mother from the birth certificate in both the numerator and denominator of the rate. In addition, the mother's race and Hispanic origin from the birth certificate is considered to be more accurately reported than the infant's race and Hispanic origin from the death certificate—on the birth certificate, race is generally reported by the mother at the time of delivery, whereas on the death certificate, the infant's race and Hispanic origin is reported by an informant, usually the mother but sometimes the funeral director. Estimates of reporting errors have been made by comparing rates based on the linked files with those in which the infant's race is based on information from the death certificate (26,52).

## Life tables

The life table provides a comprehensive measure of the effect of mortality on life expectancy. It is composed of sets of values showing the mortality experience of a hypothetical group of infants born at the same time and subject throughout their lifetime to the age-specific death rates of a particular time period, usually a given year. Prior to data year 1997, U.S. life tables were abridged and constructed by reference to a standard table (61). In addition, the age range for these life tables was limited to 5-year age groups ending with the age group 85 and over. Beginning with final data reported for 1997, complete life tables were constructed by single years of age extending to age 100 (62) using a methodology similar to that of the 1989–1991 decennial life tables (63). The methodology was again revised for data years 2000–2007 using a methodology similar to that of the 1999–2001 decennial life tables (64).

Research into the methodology used for the 1999–2001 decennial life tables, which was applied to the 2000–2007 annual life tables, revealed that it is not necessary to model (or "smooth") the probabilities of death beginning at age 66. The observed blended vital statistics and Medicare data for ages 66–85 are robust enough and do not require additional smoothing. Beginning with final data reported for 2008 (22), the life table methodology was refined by changing the smoothing technique used to estimate the life table functions at the oldest ages. This revision improves upon the methodologies used previously. Beginning with the 2008 data year, the methodology used to produce the life tables does not model the probabilities of death beginning at age 66 but rather at ages above 85 or so. (The exact ages at which smoothing techniques are used depend on the population.) See "United States Life Tables, 2008" for a detailed description of the new methodology (65).

Historically, NCHS has produced annual life tables by race including the white and black populations, but it did not produce life tables for other racial or ethnic groups. Beginning with data year 2006 (originally published elsewhere) (66), NCHS began producing life tables by Hispanic origin after conducting research into the quality of race and ethnicity reporting on death certificates and developing methodologies to correct for misclassification of these populations on death certificates (12,13). These methods that adjust for misclassification are applied to the production of the life tables, but not to the death rates shown throughout this report. Life tables by Hispanic origin are shown in this report with trend data from 2006 to 2010 (Table 8).

Life expectancy data presented in this report for 2001–2009 were re-estimated using the new life table methodology presented with final data year 2008 and with revised 2001–2009 intercensal population estimates produced by the U.S. Census Bureau (65). Although the life table methodology used produces complete life tables (by single years of age), the life table data shown in this report are summarized in 5-year age groupings.

## Causes of death contributing to changes in life expectancy

A life table partitioning technique was used to estimate causes of death contributing to changes in life expectancy in this report. The method partitions changes into component additive parts and identifies the causes of death having the greatest influence, positive or negative, on changes in life expectancy (67–69).

## Infant mortality

Infant mortality rates are the most commonly used index for measuring the risk of dying during the first year of life. The rates presented in this report are calculated by dividing the number of infant deaths in a calendar year by the number of live births

registered for the same period, and are presented as rates per 1,000 or per 100,000 live births. For final birth figures used in the denominator for infant mortality rates, see "Births: Final Data for 2010" (60). In contrast to infant mortality rates based on live births, infant death rates are based on the estimated population under age 1 year. Infant death rates that appear in tabulations of age-specific death rates in this report are calculated by dividing the number of infant deaths by the April 1, 2010, population estimate of persons under age 1, based on 2010 census populations. These rates are presented per 100,000 population in this age group. Because of differences in the denominators, infant death rates may differ from infant mortality rates.

There are two sources of infant mortality data: the general mortality file, and the linked file of live births and infant deaths. Data from the linked file differ from the infant mortality data presented in this report because the linked file includes only events in which both the birth and the death occur in the United States, and late-filed births. Processing of the linked file allows for further exclusion of infant records due to duplicates and records with additional information that raise questions about an infant's age. Although the differences are usually minuscule, infant mortality rates based on the linked file tend to be somewhat smaller than those based on data from the general mortality file as presented in this report. The linked file is the preferred source for infant mortality by race because it uses the mother's self-reported race from the child's birth certificate (26), which is more reliable than the infant's race listed on the death certificate, and because the numerator and denominator are referring to the same person's race.

## Other variables available online

### Marital status

Mortality data by marital status no longer appear in the printed version of this report but are available in Internet Table I–7 from the NCHS website at: http://www.cdc.gov/nchs/data/nvsr/nvsr61/nvsr61_04_tables.pdf. Mortality data by marital status are generally of high quality. A study of death certificate data using the 1986 National Mortality Followback Survey showed a high level of consistency in reporting marital status (55).

Age-specific rates in Table I–7 were computed using population estimates from the 2010 1-year ACS (70) (for additional detail, see the following "Population bases for computing rates" section). Age-adjusted death rates were computed based on age-specific rates and the standard population for those aged 25 and over. Prior to data year 2010, death rates by marital status were computed using population estimates from CPS. Rates computed using population estimates from ACS may not be comparable to rates computed using population estimates from CPS. Furthermore, previously published rates by marital status for 2001–2009 were computed using population estimates based on the 2000 census; therefore, rates by marital status for 2010 are not comparable to previously published rates for earlier years.

Although Table I–7 shows age-specific death rates by marital status for the age group 15–24, these rates are not included in the computation of the age-adjusted rate because of their high variability, particularly for the widowed population. Furthermore, age groups 75–84 and 85 and over are combined because of high variability in death rates among those aged 85 and over, particularly for the never-married population.

### Educational attainment

Mortality data by educational attainment no longer appear in the printed version of this report but are available in Internet Table I–8 from the NCHS website. Beginning in 2003, some registration areas adopted the new U.S. Standard Certificate of Death, which includes a revised educational attainment item. The revised item is consistent with U.S. Census Bureau efforts to improve the ability to identify specific degrees and persons who had completed 12 years of education but did not hold either a high school diploma or a General Educational Development high school equivalency diploma, known as GED. Based on Census Bureau testing, the new item identifies about 2% more persons with less than a high school diploma or equivalent, 13% fewer persons with a high school diploma, and 8% more persons with at least some college (71). In 2010, the District of Columbia and 31 states used the revised item: Arizona, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Michigan, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming. The unrevised education item continued to be used by 16 states: Alabama, Alaska, Colorado, Hawaii, Iowa, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, North Carolina, Pennsylvania, Tennessee, Virginia, West Virginia, and Wisconsin. Kentucky and Maine implemented the revised certificate after January 1, using the old education item for part of the year and the revised item for part of the year.

Because some states do not yet use the new educational attainment item and because the revised and unrevised versions are not fully comparable, data by educational attainment are shown separately according to the revision status of the decedent's state of occurrence. Table I–8 shows mortality data by educational attainment for states using the 2003 version of the standard death certificate and, separately, for states using the 1989 version. Data were approximately 80% or more complete on a state-of-occurrence basis. Data for Kentucky and Maine are excluded because they did not use the new item for the entire year (see the previous "Nature and sources of data" section). Data for Rhode Island were not included because the educational attainment item was not on their certificate. Age-adjusted death rates by educational attainment were computed based on the age-specific rates and the standard population for those aged 25–64. Data for those aged 65 and over are not shown because reporting quality is poorer at older ages (72).

Rates by educational attainment for states using the unrevised certificate are affected by differences between measurement of education for the numerator, which is based on the number of years of education completed as reported on the 1989 revision of the death certificate, and the denominator, which is based on highest degree completed as reported on the 2010 census and the ACS (70).

Table III shows a 2002-to-2010 comparison of the percent distribution of deaths by measures of educational attainment for areas using the 2003 revised certificate in 2010 and for areas using the 1989 revision. Georgia and South Dakota are excluded because those states were not reporting education in 2002 and, therefore, do not have comparison data.

**Table III. Percent distribution of deaths by educational attainment: Arizona, Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Idaho, Illinois, Indiana, Kansas, Michigan, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, Texas, Utah, Vermont, Washington, and Wyoming, 2002 and 2010**

[By state of occurrence. Excludes nonresidents of the United States. Because of rounding, the sum of the subgroups may not add to the total]

| 2002 | | 2010 | |
|---|---|---|---|
| Years of school completed | Percent distribution | Educational attainment | Percent distribution |
| Total | 100.0 | Total | 100.0 |
| Under 12 years | 27.8 | Less than high school diploma or GED | 24.3 |
| 12 years | 39.5 | High school diploma or GED | 41.6 |
| 13 years or more | 25.7 | Some college or collegiate degree | 32.0 |
| Not stated | 7.0 | Not stated | 2.1 |

NOTE: GED is General Educational Development high school equivalency diploma.

### Injury at work

Mortality data by injury at work are available in Internet Tables I–9 and I–10 from the NCHS website. Information on deaths attributed to injuries at work is derived from a separate item on the death certificate that asks the medical certifier whether the death resulted from an injury sustained at work. This item is on the death certificate of all states. Number of deaths, age-specific death rates, and age-adjusted death rates for injury at work are shown in Tables I–9 and I–10. Deaths, crude death rates, and age-adjusted death rates for injury at work are shown for those aged 15 and over. Age-adjusted death rates for injury at work were computed using age-specific death rates and the 2000 U.S. standard population for those aged 15 and over; see the following "Computing rates" section.

### Maternal mortality

Maternal mortality data are not included in this year's report. The 2003 revision of the U.S. Standard Certificate of Death introduced a checkbox question format with categories to take advantage of additional codes available in ICD–10 for deaths with a connection to pregnancy, childbirth, and the puerperium. As states revise their certificates, most are adopting the checkbox format, resulting in wider adoption of a pregnancy status question nationwide and greater standardization of the particular question used. As of 2010, 41 states and the District of Columbia have a separate question related to pregnancy status of female decedents around the time of their death. However, at least five different questions were used in the 41 states and the District of Columbia, reflecting the mix of 34 states and the District of Columbia using the 2003 standard format and 7 states with pre-existing questions.

Adopting a pregnancy status question consistent with the standard death certificate increases the identification of maternal deaths (73,74). Maternal mortality rates are consistently greater for those states with the additional information from the separate question than for the states without it. In addition, state maternal mortality rates tend to be greater after adopting the standard question than before. Research on this issue (74–76) indicates that this increase represents an improvement in identifying maternal deaths. For example, a study in Maryland that used multiple data sources as the standard showed an improvement in identifying maternal deaths (from 62% to 98%) after adoption of a pregnancy checkbox item consistent with the 2003 standard certificate (76).

## Population bases for computing rates

Populations used for computing death rates and life tables shown in this report (except for rates by Hispanic subgroup in Table 5, rates by marital status in Table I–7, and rates by educational attainment in Table I–8) represent the population residing in the United States, enumerated as of April 1 for census years and estimated as of July 1 for all other years. Population estimates used to compute death rates for the United States for 2010 are shown for 5-year age groups by race in Table IV and by Hispanic origin for the total Hispanic population in Table V. These estimates are available by single years of age from: http://www.cdc.gov/nchs/nvss/bridged_race.htm (7).

Population estimates and their standard errors in Table VI for specified Hispanic populations (Mexican, Puerto Rican, Cuban, Central and South America, and Other Hispanic populations), in Table VII by marital status, and in Table VIII by educational attainment were prepared by the U.S. Census Bureau. These estimates are based on the 2010 1-year ACS (70) adjusted to resident population control totals and, as such, are subject to sampling variation; see the following "Random variation" section. The control totals used for population estimates in Tables VI and VII are 2010-based postcensal estimates for the United States for July 1, 2010. The control totals used for population estimates in Table VIII are 2010-based postcensal estimates for July 1, 2010, for the 31 states and District of Columbia that reported mortality data by educational attainment using the 2003 version of the U.S. Standard Certificate of Death, and for the 16 states that reported using the 1989 version.

Previously, population estimates based on CPS were used to compute death rates by educational attainment, by marital status, and for Mexican, Puerto Rican, Cuban, Central and South America, and Other Hispanic populations. Beginning in 2010, population estimates based on ACS were used to compute these rates. ACS estimates are more statistically reliable and represent the entire U.S. population. ACS estimates are based on a 4.5 million sample of the U.S. population, including all households (civilian and military) and the

**Table IV. Estimated population, by 5-year age groups, specified race, and sex: United States, 2010**

[Populations are based on the 2010 census, as of April 1, 2010; see Technical Notes]

| Age (years) | All races | | | White | | | Black | | | American Indian or Alaska Native | | | Asian or Pacific Islander | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| Total | 308,745,538 | 151,781,326 | 156,964,212 | 245,423,340 | 121,403,489 | 124,019,851 | 42,065,334 | 20,100,692 | 21,964,642 | 4,263,538 | 2,142,654 | 2,120,884 | 16,993,326 | 8,134,491 | 8,858,835 |
| Under 1 year | 3,944,153 | 2,014,276 | 1,929,877 | 2,969,621 | 1,518,287 | 1,451,334 | 671,508 | 341,156 | 330,352 | 77,743 | 39,263 | 38,480 | 225,281 | 115,570 | 109,711 |
| 1–4 | 16,257,209 | 8,305,151 | 7,952,058 | 12,274,062 | 6,280,845 | 5,993,217 | 2,731,786 | 1,388,288 | 1,343,498 | 315,983 | 160,468 | 155,515 | 935,378 | 475,550 | 459,828 |
| 5–9 | 20,348,657 | 10,389,638 | 9,959,019 | 15,508,869 | 7,938,462 | 7,570,407 | 3,297,413 | 1,676,649 | 1,620,764 | 377,904 | 191,263 | 186,641 | 1,164,471 | 583,264 | 581,207 |
| 10–14 | 20,677,194 | 10,579,862 | 10,097,332 | 15,804,588 | 8,104,922 | 7,699,666 | 3,402,184 | 1,731,444 | 1,670,740 | 372,896 | 189,252 | 183,644 | 1,097,526 | 554,244 | 543,282 |
| 15–19 | 22,040,343 | 11,303,666 | 10,736,677 | 16,698,630 | 8,582,975 | 8,115,655 | 3,775,192 | 1,917,774 | 1,857,418 | 393,320 | 202,036 | 191,284 | 1,173,201 | 600,881 | 572,320 |
| 20–24 | 21,585,999 | 11,014,176 | 10,571,823 | 16,523,087 | 8,485,714 | 8,037,373 | 3,384,409 | 1,673,391 | 1,711,018 | 362,892 | 189,810 | 173,082 | 1,315,611 | 665,261 | 650,350 |
| 25–29 | 21,101,849 | 10,635,591 | 10,466,258 | 16,300,403 | 8,317,627 | 7,982,776 | 3,026,996 | 1,455,016 | 1,571,980 | 340,576 | 176,238 | 164,338 | 1,433,874 | 686,710 | 747,164 |
| 30–34 | 19,962,099 | 9,996,500 | 9,965,599 | 15,390,368 | 7,821,208 | 7,569,160 | 2,840,107 | 1,346,001 | 1,494,106 | 311,098 | 159,913 | 151,185 | 1,420,526 | 669,378 | 751,148 |
| 35–39 | 20,179,642 | 10,042,022 | 10,137,620 | 15,649,646 | 7,898,133 | 7,751,513 | 2,784,256 | 1,307,906 | 1,476,350 | 292,412 | 148,548 | 143,864 | 1,453,328 | 687,435 | 765,893 |
| 40–44 | 20,890,964 | 10,393,977 | 10,496,987 | 16,499,370 | 8,310,099 | 8,189,271 | 2,816,383 | 1,331,148 | 1,485,235 | 280,013 | 141,570 | 138,443 | 1,295,198 | 611,160 | 684,038 |
| 45–49 | 22,708,591 | 11,209,085 | 11,499,506 | 18,258,382 | 9,106,178 | 9,152,204 | 2,959,859 | 1,394,147 | 1,565,712 | 283,889 | 140,773 | 143,116 | 1,206,461 | 567,987 | 638,474 |
| 50–54 | 22,298,125 | 10,933,274 | 11,364,851 | 18,148,456 | 8,989,622 | 9,158,834 | 2,804,072 | 1,313,373 | 1,490,699 | 253,858 | 123,510 | 130,348 | 1,091,739 | 506,769 | 584,970 |
| 55–59 | 19,664,805 | 9,523,648 | 10,141,157 | 16,253,415 | 7,958,850 | 8,294,565 | 2,285,170 | 1,047,860 | 1,237,310 | 197,306 | 95,271 | 102,035 | 928,914 | 421,667 | 507,247 |
| 60–64 | 16,817,924 | 8,077,500 | 8,740,424 | 14,173,246 | 6,881,409 | 7,291,837 | 1,744,098 | 784,603 | 959,495 | 148,434 | 71,887 | 76,547 | 752,146 | 339,601 | 412,545 |
| 65–69 | 12,435,263 | 5,852,547 | 6,582,716 | 10,621,656 | 5,050,726 | 5,570,930 | 1,199,769 | 520,533 | 679,236 | 97,909 | 46,372 | 51,537 | 515,929 | 234,916 | 281,013 |
| 70–74 | 9,278,166 | 4,243,972 | 5,034,194 | 7,950,547 | 3,674,986 | 4,275,561 | 878,159 | 365,247 | 512,912 | 66,019 | 30,087 | 35,932 | 383,441 | 173,652 | 209,789 |
| 75–79 | 7,317,795 | 3,182,388 | 4,135,407 | 6,369,103 | 2,804,683 | 3,564,420 | 634,493 | 244,800 | 389,693 | 43,090 | 18,355 | 24,735 | 271,109 | 114,550 | 156,559 |
| 80–84 | 5,743,327 | 2,294,374 | 3,448,953 | 5,098,092 | 2,061,411 | 3,036,681 | 436,713 | 150,974 | 285,739 | 26,959 | 10,802 | 16,157 | 181,563 | 71,187 | 110,376 |
| 85 and over | 5,493,433 | 1,789,679 | 3,703,754 | 4,931,799 | 1,617,352 | 3,314,447 | 392,767 | 110,382 | 282,385 | 21,237 | 7,236 | 14,001 | 147,630 | 54,709 | 92,921 |

SOURCE: Centers for Disease Control and Prevention, National Center for Health Statistics. Estimates of the April 1, 2010, U.S. resident population by age, sex, race, and Hispanic origin, prepared under a collaborative arrangement with the U.S. Census Bureau. 2011.

## Table V. Estimated population, by 5-year age groups, according to Hispanic origin, race for non-Hispanic population, and sex: United States, 2010

[Populations are based on the 2010 census, as of April 1, 2010; see Technical Notes]

| Hispanic origin, race for non-Hispanic population, and sex | Total | Age group (years) | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year | 1–4 | 5–9 | 10–14 | 15–19 | 20–24 | 25–29 | 30–34 | 35–39 | 40–44 | 45–49 | 50–54 | 55–59 | 60–64 | 65–69 | 70–74 | 75–79 | 80–84 | 85 and over |
| All origins | 308,745,538 | 3,944,153 | 16,257,209 | 20,348,657 | 20,677,194 | 22,040,343 | 21,585,999 | 21,101,849 | 19,962,099 | 20,179,642 | 20,890,964 | 22,708,591 | 22,298,125 | 19,664,805 | 16,817,924 | 12,435,263 | 9,278,166 | 7,317,795 | 5,743,327 | 5,493,433 |
| Male | 151,781,326 | 2,014,276 | 8,305,151 | 10,389,638 | 10,579,862 | 11,303,666 | 11,014,176 | 10,635,591 | 9,996,500 | 10,042,022 | 10,393,977 | 11,209,085 | 10,933,274 | 9,523,648 | 8,077,500 | 5,852,547 | 4,243,972 | 3,182,388 | 2,294,374 | 1,789,679 |
| Female | 156,964,212 | 1,929,877 | 7,952,058 | 9,959,019 | 10,097,332 | 10,736,677 | 10,571,823 | 10,466,258 | 9,965,599 | 10,137,620 | 10,496,987 | 11,499,506 | 11,364,851 | 10,141,157 | 8,740,424 | 6,582,716 | 5,034,194 | 4,135,407 | 3,448,953 | 3,703,754 |
| Hispanic | 50,477,594 | 1,012,391 | 4,102,097 | 4,790,771 | 4,525,242 | 4,532,155 | 4,322,275 | 4,310,471 | 4,124,483 | 3,856,340 | 3,442,400 | 3,022,074 | 2,441,454 | 1,841,432 | 1,372,385 | 948,576 | 700,142 | 510,808 | 351,488 | 270,610 |
| Male | 25,618,800 | 515,475 | 2,093,872 | 2,442,643 | 2,312,344 | 2,346,073 | 2,302,297 | 2,276,134 | 2,143,050 | 1,970,752 | 1,763,653 | 1,524,969 | 1,210,947 | 889,148 | 645,561 | 428,902 | 305,762 | 213,340 | 139,046 | 94,832 |
| Female | 24,858,794 | 496,916 | 2,008,225 | 2,348,128 | 2,212,898 | 2,186,082 | 2,019,978 | 2,034,337 | 1,981,433 | 1,885,588 | 1,678,747 | 1,497,105 | 1,230,507 | 952,284 | 726,824 | 519,674 | 394,380 | 297,468 | 212,442 | 175,778 |
| Non-Hispanic[1] | 258,267,944 | 2,931,762 | 12,155,112 | 15,557,886 | 16,151,952 | 17,508,188 | 17,263,724 | 16,791,378 | 15,837,616 | 16,323,302 | 17,448,564 | 19,686,517 | 19,856,671 | 17,823,373 | 15,445,539 | 11,486,687 | 8,578,024 | 6,806,987 | 5,391,839 | 5,222,823 |
| Male | 126,162,526 | 1,498,801 | 6,211,279 | 7,946,995 | 8,267,518 | 8,957,593 | 8,711,879 | 8,359,457 | 7,853,450 | 8,071,270 | 8,630,324 | 9,684,116 | 9,722,327 | 8,634,500 | 7,431,939 | 5,423,645 | 3,938,210 | 2,969,048 | 2,155,328 | 1,694,847 |
| Female | 132,105,418 | 1,432,961 | 5,943,833 | 7,610,891 | 7,884,434 | 8,550,595 | 8,551,845 | 8,431,921 | 7,984,166 | 8,252,032 | 8,818,240 | 10,002,401 | 10,134,344 | 9,188,873 | 8,013,600 | 6,063,042 | 4,639,814 | 3,837,939 | 3,236,511 | 3,527,976 |
| White | 200,127,372 | 2,082,860 | 8,663,830 | 11,259,203 | 11,777,400 | 12,670,731 | 12,685,843 | 12,452,886 | 11,690,434 | 12,155,961 | 13,375,418 | 15,514,144 | 15,930,658 | 14,570,778 | 12,912,426 | 9,744,649 | 7,300,792 | 5,892,264 | 4,768,688 | 4,678,407 |
| Male | 98,386,442 | 1,066,887 | 4,438,488 | 5,771,062 | 6,046,285 | 6,495,265 | 6,434,852 | 6,278,921 | 5,892,342 | 6,107,512 | 6,705,632 | 7,717,904 | 7,887,799 | 7,146,083 | 6,288,214 | 4,654,113 | 3,391,018 | 2,604,993 | 1,930,668 | 1,528,404 |
| Female | 101,740,930 | 1,015,973 | 4,225,342 | 5,488,141 | 5,731,115 | 6,175,466 | 6,250,991 | 6,173,965 | 5,798,092 | 6,048,449 | 6,669,786 | 7,796,240 | 8,042,859 | 7,424,695 | 6,624,212 | 5,090,536 | 3,909,774 | 3,287,271 | 2,838,020 | 3,150,003 |
| Black | 39,437,133 | 604,166 | 2,472,609 | 3,019,066 | 3,147,749 | 3,517,848 | 3,138,066 | 2,796,884 | 2,629,955 | 2,610,393 | 2,662,037 | 2,823,433 | 2,692,449 | 2,203,723 | 1,685,341 | 1,161,159 | 849,948 | 615,373 | 424,123 | 382,811 |
| Male | 18,812,260 | 306,745 | 1,255,739 | 1,534,565 | 1,601,544 | 1,786,472 | 1,550,237 | 1,342,341 | 1,245,147 | 1,226,242 | 1,257,524 | 1,329,666 | 1,260,649 | 1,009,656 | 757,918 | 503,596 | 353,284 | 237,296 | 146,421 | 107,218 |
| Female | 20,624,873 | 297,421 | 1,216,870 | 1,484,501 | 1,546,205 | 1,731,376 | 1,587,829 | 1,454,543 | 1,384,808 | 1,384,151 | 1,404,513 | 1,493,767 | 1,431,800 | 1,194,067 | 927,423 | 657,563 | 496,664 | 378,077 | 277,702 | 275,593 |

[1]Includes races other than white and black.

**Table VI. Estimated population and standard errors for the Mexican, Puerto Rican, Cuban, Central and South American, and Other Hispanic populations, by 10-year age group and sex: United States, 2010**

[Population estimates for Mexican, Puerto Rican, Cuban, Central and South American, and Other and unknown Hispanic are based on the American Community Survey adjusted to resident population control totals. The control totals are 2010-based population estimates for the United States for July 1, 2010; see Technical Notes. Population estimates for Hispanic total (shown in Table V) are based on the 2010 census, as of April 1, 2010. Population estimates by specified Hispanic origin in this table may not add to population estimates for total Hispanic in Table V. Standard errors are shown in parentheses below each population estimate]

| Hispanic origin and sex | All ages | Age group (years) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Under 1 year | 1–4 | 5–14 | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75–84 | 85 and over |
| Mexican | 32,929,705 | 637,305 | 2,966,770 | 6,641,050 | 5,935,585 | 5,495,365 | 4,708,910 | 3,225,415 | 1,838,040 | 888,005 | 445,555 | 147,705 |
| | (60,616) | (8,450) | (16,948) | (27,248) | (25,755) | (25,940) | (23,507) | (18,738) | (13,872) | (9,277) | (6,335) | (3,835) |
| Male | 16,915,995 | 321,780 | 1,511,825 | 3,383,935 | 3,142,100 | 2,893,725 | 2,451,300 | 1,657,680 | 905,620 | 405,970 | 188,490 | 53,570 |
| | (44,004) | (6,058) | (12,146) | (19,469) | (19,149) | (18,950) | (17,411) | (13,683) | (9,770) | (6,299) | (4,108) | (2,228) |
| Female | 16,013,710 | 315,525 | 1,454,945 | 3,257,115 | 2,793,485 | 2,601,640 | 2,257,610 | 1,567,735 | 932,420 | 482,035 | 257,065 | 94,135 |
| | (41,688) | (5,892) | (11,820) | (19,063) | (17,223) | (17,713) | (15,793) | (12,802) | (9,848) | (6,811) | (4,823) | (3,121) |
| Puerto Rican | 4,691,930 | 82,415 | 363,665 | 853,165 | 840,060 | 711,160 | 633,495 | 542,375 | 352,610 | 193,340 | 89,225 | 30,420 |
| | (23,436) | (2,835) | (6,876) | (10,211) | (9,959) | (9,203) | (8,755) | (7,755) | (6,041) | (4,559) | (2,962) | (1,711) |
| Male | 2,298,955 | 40,365 | 190,985 | 437,290 | 421,525 | 348,620 | 302,655 | 263,170 | 160,655 | 87,580 | 36,245 | 9,865 |
| | (16,412) | (2,129) | (5,038) | (6,985) | (7,104) | (6,485) | (5,921) | (5,623) | (4,222) | (3,024) | (1,874) | (981) |
| Female | 2,392,975 | 42,050 | 172,680 | 415,875 | 418,535 | 362,540 | 330,840 | 279,205 | 191,955 | 105,760 | 52,980 | 20,555 |
| | (16,730) | (1,872) | (4,680) | (7,447) | (6,980) | (6,530) | (6,450) | (5,341) | (4,320) | (3,412) | (2,294) | (1,402) |
| Cuban | 1,873,620 | 19,920 | 86,730 | 223,500 | 244,595 | 218,480 | 287,080 | 290,045 | 188,970 | 155,070 | 119,100 | 40,130 |
| | (15,318) | (1,657) | (3,297) | (5,197) | (5,700) | (5,527) | (6,226) | (6,161) | (4,602) | (3,993) | (3,551) | (2,131) |
| Male | 945,735 | 10,145 | 44,710 | 120,230 | 123,325 | 111,305 | 151,305 | 157,045 | 93,065 | 68,960 | 52,345 | 13,300 |
| | (10,953) | (1,103) | (2,388) | (3,837) | (4,015) | (3,877) | (4,598) | (4,580) | (3,276) | (2,672) | (2,415) | (1,165) |
| Female | 927,885 | 9,775 | 42,020 | 103,270 | 121,270 | 107,175 | 135,775 | 133,000 | 95,905 | 86,110 | 66,755 | 26,830 |
| | (10,709) | (1,236) | (2,273) | (3,505) | (4,046) | (3,940) | (4,198) | (4,121) | (3,232) | (2,967) | (2,603) | (1,784) |
| Central and South American | 7,483,685 | 114,960 | 519,530 | 1,068,150 | 1,228,510 | 1,455,400 | 1,225,595 | 953,100 | 528,865 | 247,250 | 112,020 | 30,305 |
| | (30,822) | (3,780) | (8,190) | (11,696) | (12,823) | (14,056) | (12,688) | (10,346) | (7,792) | (5,171) | (3,358) | (1,751) |
| Male | 3,754,635 | 55,945 | 265,150 | 537,365 | 664,225 | 779,485 | 620,465 | 451,725 | 237,605 | 97,765 | 37,555 | 7,350 |
| | (22,232) | (2,547) | (5,863) | (8,261) | (9,605) | (10,423) | (9,352) | (7,275) | (5,337) | (3,299) | (1,926) | (889) |
| Female | 3,729,050 | 59,015 | 254,380 | 530,785 | 564,285 | 675,915 | 605,130 | 501,375 | 291,260 | 149,485 | 74,465 | 22,955 |
| | (21,348) | (2,793) | (5,719) | (8,280) | (8,495) | (9,430) | (8,575) | (7,356) | (5,677) | (3,983) | (2,751) | (1,508) |
| Other and unknown Hispanic | 3,761,260 | 56,355 | 258,200 | 617,510 | 668,115 | 534,175 | 504,330 | 482,715 | 329,630 | 179,360 | 95,440 | 35,430 |
| | (20,799) | (2,517) | (5,509) | (8,187) | (8,710) | (8,328) | (7,905) | (7,504) | (5,869) | (4,285) | (2,960) | (1,815) |
| Male | 1,817,230 | 27,390 | 129,810 | 326,720 | 341,050 | 263,370 | 231,320 | 221,590 | 147,130 | 78,375 | 39,070 | 11,405 |
| | (14,542) | (1,702) | (3,925) | (5,909) | (6,326) | (5,798) | (5,443) | (5,146) | (3,981) | (2,843) | (1,923) | (940) |
| Female | 1,944,030 | 28,965 | 128,390 | 290,790 | 327,065 | 270,805 | 273,010 | 261,125 | 182,500 | 100,985 | 56,370 | 24,025 |
| | (14,870) | (1,855) | (3,866) | (5,667) | (5,987) | (5,978) | (5,732) | (5,462) | (4,312) | (3,205) | (2,250) | (1,553) |

SOURCE: Population estimates are based on unpublished tabulations prepared by the U.S. Census Bureau, American Community Survey, 2010 1–Year.

institutionalized population (persons living in group quarters). CPS estimates are based on an approximate 200,000 sample of only the civilian noninstitutionalized U.S. population.

Populations used for computing death rates by state, shown in Table IX, represent state-level populations, enumerated as of April 1, 2010. Population estimates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, also shown in Table IX, are based on the 2010 census, estimated as of July 1, 2010 (77). Population estimates for each state and territory are not subject to sampling variation because the sources used in demographic analysis are complete counts.

Rates for 2001–2009 shown in this report have been revised using revised intercensal population estimates based on the 2010 census, estimated as of July 1, and may differ from rates previously published (8). Death rates shown in this report for 1991–2000 are based on populations consistent with the 2000 census levels (78,79). These estimates were produced under a collaborative arrangement with the U.S. Census Bureau and are based on the 2000 census counts by age, race, and sex, modified for consistency with U.S. OMB race categories as of 1977 and historical categories for death data (50,80). The modification procedures are described in detail elsewhere (10,51). The bridged population data are anticipated to be used over the next few years for computing population-based rates by race.

## Computing rates

Except for infant mortality rates, rates are on an annual basis per 100,000 estimated population residing in the specified area. Infant mortality rates are per 1,000 or per 100,000 live births. Comparisons made in the text among rates, unless otherwise specified, are statistically significant at the 0.05 level of significance. Lack of comment in this report about any two rates does not mean that the difference was tested and found not to be significant at this level.

Age-adjusted rates ($R'$) are used to compare relative mortality risks among groups and over time. However, they should be viewed as relative indexes rather than as actual measures of mortality risk. They were computed by the direct method—that is, by applying age-specific death rates ($R_i$) to the U.S. standard population age distribution (Table X), as in

$$R' = \sum_i \frac{P_{si}}{P_s} R_i$$

where $P_{si}$ is the standard population for age group $i$ and $P_s$ is the total U.S. standard population (all ages combined).

**Table VII. Estimated population and standard errors for ages 15 and over, by marital status, 10-year age groups, and sex: 2010**

[Population estimates are from the American Community Survey, based on 2010 postcensal estimates as of July 1, 2010. Population estimates shown in this table may differ from population estimates based on the 2010 census as of April 1; see Technical Notes. Standard errors are shown in parentheses below each population estimate]

| Marital status and sex | Age group (years) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 15 and over | 15–24 | 25–34 | 35–44 | 45–54 | 55–64 | 65–74 | 75 and over |
| All races | 248,055,935 | 43,767,020 | 40,972,085 | 41,192,320 | 44,929,030 | 36,761,960 | 21,854,035 | 18,579,485 |
| | (126,777) | (42,606) | (55,903) | (57,714) | (50,339) | (49,531) | (38,461) | (36,530) |
| Never married | 79,640,005 | 40,525,130 | 19,288,305 | 8,501,630 | 6,251,265 | 3,158,825 | 1,115,295 | 799,555 |
| | (67,886) | (37,114) | (37,352) | (28,119) | (23,306) | (17,503) | (10,735) | (8,967) |
| Ever married | 168,415,930 | 3,241,890 | 21,683,780 | 32,690,690 | 38,677,765 | 33,603,135 | 20,738,740 | 17,779,930 |
| | (107,070) | (20,924) | (41,594) | (50,401) | (44,619) | (46,336) | (36,932) | (35,412) |
| Married | 126,445,850 | 3,016,790 | 19,140,500 | 27,060,975 | 29,905,065 | 24,928,225 | 14,211,580 | 8,182,715 |
| | (88,076) | (20,138) | (38,036) | (43,681) | (34,896) | (36,749) | (29,250) | (23,947) |
| Widowed | 14,944,345 | 19,825 | 92,540 | 290,640 | 921,945 | 2,038,015 | 3,438,990 | 8,142,390 |
| | (33,741) | (1,596) | (3,201) | (5,639) | (9,212) | (14,030) | (15,849) | (23,684) |
| Divorced | 27,025,735 | 205,275 | 2,450,740 | 5,339,075 | 7,850,755 | 6,636,895 | 3,088,170 | 1,454,825 |
| | (50,676) | (5,455) | (16,525) | (24,503) | (26,234) | (24,489) | (16,039) | (10,939) |
| All races, male | 120,742,590 | 22,437,765 | 20,553,205 | 20,494,595 | 22,100,090 | 17,723,300 | 10,155,595 | 7,278,040 |
| | (86,193) | (29,095) | (40,384) | (40,046) | (35,637) | (31,087) | (24,195) | (22,942) |
| Never married | 42,741,170 | 21,232,495 | 10,785,880 | 4,783,090 | 3,487,335 | 1,626,580 | 530,315 | 295,475 |
| | (49,367) | (25,748) | (26,820) | (21,966) | (17,803) | (13,013) | (7,613) | (5,303) |
| Ever married | 78,001,420 | 1,205,270 | 9,767,325 | 15,711,505 | 18,612,755 | 16,096,720 | 9,625,280 | 6,982,565 |
| | (70,655) | (13,549) | (30,192) | (33,485) | (30,871) | (28,232) | (22,966) | (22,321) |
| Married | 63,291,425 | 1,127,180 | 8,704,565 | 13,232,785 | 14,843,210 | 12,785,965 | 7,705,570 | 4,892,150 |
| | (61,013) | (13,137) | (28,041) | (29,582) | (25,398) | (22,765) | (19,516) | (18,560) |
| Widowed | 3,076,510 | 6,765 | 25,075 | 81,100 | 225,265 | 447,990 | 695,390 | 1,594,925 |
| | (15,675) | (945) | (1,959) | (3,067) | (5,085) | (6,258) | (7,276) | (10,659) |
| Divorced | 11,633,485 | 71,325 | 1,037,685 | 2,397,620 | 3,544,280 | 2,862,765 | 1,224,320 | 495,490 |
| | (31,996) | (3,178) | (11,021) | (15,386) | (16,796) | (15,480) | (9,676) | (6,334) |
| All races, female | 127,313,345 | 21,329,255 | 20,418,880 | 20,697,725 | 22,828,940 | 19,038,660 | 11,698,440 | 11,301,445 |
| | (92,969) | (31,125) | (38,656) | (41,560) | (35,553) | (38,561) | (29,897) | (28,427) |
| Never married | 36,898,835 | 19,292,635 | 8,502,425 | 3,718,540 | 2,763,930 | 1,532,245 | 584,980 | 504,080 |
| | (46,597) | (26,730) | (25,997) | (17,555) | (15,041) | (11,705) | (7,569) | (7,230) |
| Ever married | 90,414,510 | 2,036,620 | 11,916,455 | 16,979,185 | 20,065,010 | 17,506,415 | 11,113,460 | 10,797,365 |
| | (80,448) | (15,946) | (28,609) | (37,670) | (32,215) | (36,742) | (28,923) | (27,493) |
| Married | 63,154,425 | 1,889,610 | 10,435,935 | 13,828,190 | 15,061,855 | 12,142,260 | 6,506,010 | 3,290,565 |
| | (63,520) | (15,263) | (25,699) | (32,140) | (23,930) | (28,848) | (21,786) | (15,132) |
| Widowed | 11,867,835 | 13,060 | 67,465 | 209,540 | 696,680 | 1,590,025 | 2,743,600 | 6,547,465 |
| | (29,878) | (1,286) | (2,532) | (4,732) | (7,682) | (12,557) | (14,080) | (21,150) |
| Divorced | 15,392,250 | 133,950 | 1,413,055 | 2,941,455 | 4,306,475 | 3,774,130 | 1,863,850 | 959,335 |
| | (39,298) | (4,434) | (12,314) | (19,070) | (20,153) | (18,976) | (12,792) | (8,918) |

SOURCE: Population estimates are based on unpublished tabulations prepared by the U.S. Census Bureau, American Community Survey, 2010 1–Year.

Beginning with the 1999 data year, NCHS adopted a new population standard for use in age-adjusting death rates. Based on the projected year 2000 population of the United States, the new standard replaced the 1940 standard population that had been used for more than 50 years. The new population standard affects levels of mortality and, to some extent, trends and group comparisons. Of particular note are the effects on race mortality comparisons. For detailed discussion, see "Age Standardization of Death Rates: Implementation of the Year 2000 Standard" (81). Beginning with 2003 data, the traditional standard million population along with corresponding standard weights to six decimal places were replaced by the projected year 2000 population age distribution (Table X). The effect of the change is negligible and does not significantly affect comparability with age-adjusted rates calculated using the previous method.

All age-adjusted rates shown in this report are based on the 2000 U.S. standard population. Age-adjusted rates by marital status were computed by applying the age-specific death rates to the U.S. standard population for those aged 25 and over. Although age-specific death rates by marital status are shown for the age group 15–24, they are not included in the calculation of age-adjusted rates because of their high variability, particularly for the widowed population. Age groups 75–84 and 85 and over are combined because of high variability in death rates in the 85-and-over age group, particularly for the never-married population. The 2000 standard population used for computing age-adjusted rates by marital status is shown in Table XI.

Age-adjusted rates by educational attainment were computed by applying the age-specific death rates to the U.S. standard population for those aged 25–64. Data for those aged 65 and over are not shown because reporting quality is poorer for older ages (72). The year 2000 standard population used for computing age-adjusted rates by education is shown in Table XII.

Age-adjusted rates for injury at work were computed by applying the age-specific death rates to the U.S. standard population for those

**Table VIII. Estimated population and standard errors for ages 25–64, by educational attainment and sex: Total of 31 reporting states and the District of Columbia using the 2003 version of the U.S. Standard Certificate of Death and total of 16 reporting states using the 1989 version of the U.S. Standard Certificate of Death, 2010**

[Population estimates are from the American Community Survey, based on 2010 postcensal estimates as of July 1, 2010. Population estimates shown in this table may differ from population estimates based on the 2010 census as of April 1; see Technical Notes. Standard errors are shown in parentheses below each population estimate]

| 31 reporting states and District of Columbia[1] using 2003 version of U.S. Standard Certificate of Death | | | | | | 16 reporting states[2] using 1989 version of U.S. Standard Certificate of Death | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Age group (years) | | | | | | Age group (years) | | | | |
| Education level and sex | 25–64 | 25–34 | 35–44 | 45–54 | 55–64 | Years of school completed and sex | 25–64 | 25–34 | 35–44 | 45–54 | 55–64 |
| All races | | | | | | All races | | | | | |
| Both sexes | 115,254,735 | 29,221,410 | 29,125,475 | 31,393,570 | 25,514,280 | Both sexes | 44,993,020 | 10,916,000 | 11,178,945 | 12,517,480 | 10,380,595 |
| | (101,051) | (52,677) | (53,854) | (49,829) | (45,314) | | (60,643) | (31,033) | (32,249) | (30,206) | (27,608) |
| Less than high school diploma or GED | 15,267,980 | 3,960,935 | 3,973,865 | 4,117,875 | 3,215,305 | Under 12 years | 4,787,650 | 1,209,160 | 1,132,460 | 1,309,790 | 1,136,240 |
| | (40,348) | (21,344) | (21,366) | (20,057) | (17,709) | | (22,333) | (11,740) | (11,370) | (11,204) | (10,302) |
| High school diploma or GED | 30,218,155 | 7,041,635 | 7,341,350 | 8,944,475 | 6,890,695 | 12 years | 12,953,650 | 2,730,130 | 3,025,950 | 3,986,905 | 3,210,665 |
| | (50,803) | (25,444) | (27,174) | (25,542) | (23,296) | | (31,454) | (15,487) | (16,761) | (15,827) | (14,768) |
| Some college or collegiate degree | 69,768,600 | 18,218,840 | 17,810,260 | 18,331,220 | 15,408,280 | 13 years or more | 27,251,720 | 6,976,710 | 7,020,535 | 7,220,785 | 6,033,690 |
| | (77,475) | (40,888) | (41,296) | (37,792) | (34,598) | | (46,792) | (24,194) | (25,095) | (23,161) | (20,928) |
| Male | 56,937,370 | 14,686,325 | 14,504,770 | 15,462,040 | 12,284,235 | Male | 22,158,810 | 5,451,815 | 5,546,550 | 6,140,115 | 5,020,330 |
| | (71,726) | (37,704) | (38,544) | (35,178) | (31,620) | | (42,742) | (22,137) | (22,603) | (21,177) | (19,430) |
| Less than high school diploma or GED | 8,262,160 | 2,290,265 | 2,183,775 | 2,235,330 | 1,552,790 | Under 12 years | 2,694,160 | 704,530 | 657,300 | 746,830 | 585,500 |
| | (29,910) | (16,252) | (16,005) | (14,914) | (12,325) | | (16,713) | (8,769) | (8,628) | (8,558) | (7,400) |
| High school diploma or GED | 15,726,820 | 3,996,535 | 3,993,050 | 4,623,785 | 3,113,450 | 12 years | 6,833,095 | 1,591,070 | 1,665,675 | 2,092,185 | 1,484,165 |
| | (37,034) | (19,101) | (20,305) | (18,291) | (16,118) | | (22,736) | (11,600) | (12,295) | (11,271) | (10,205) |
| Some college or collegiate degree | 32,948,390 | 8,399,525 | 8,327,945 | 8,602,925 | 7,617,995 | 13 years or more | 12,631,555 | 3,156,215 | 3,223,575 | 3,301,100 | 2,950,665 |
| | (53,652) | (28,153) | (28,587) | (26,087) | (24,252) | | (32,104) | (16,691) | (16,890) | (15,753) | (14,786) |
| Female | 58,317,365 | 14,535,085 | 14,620,705 | 15,931,530 | 13,230,045 | Female | 22,834,210 | 5,464,185 | 5,632,395 | 6,377,365 | 5,360,265 |
| | (71,181) | (36,787) | (37,611) | (35,290) | (32,458) | | (43,020) | (21,748) | (23,002) | (21,540) | (19,614) |
| Less than high school diploma or GED | 7,005,820 | 1,670,670 | 1,790,090 | 1,882,545 | 1,662,515 | Under 12 years | 2,093,490 | 504,630 | 475,160 | 562,960 | 550,740 |
| | (27,080) | (13,837) | (14,154) | (13,411) | (12,716) | | (14,813) | (7,805) | (7,405) | (7,231) | (7,168) |
| High school diploma or GED | 14,491,335 | 3,045,100 | 3,348,300 | 4,320,690 | 3,777,245 | 12 years | 6,120,555 | 1,139,060 | 1,360,275 | 1,894,720 | 1,726,500 |
| | (34,777) | (16,809) | (18,059) | (17,829) | (16,820) | | (21,735) | (10,260) | (11,392) | (11,110) | (10,675) |
| Some college or collegiate degree | 36,820,210 | 9,819,315 | 9,482,315 | 9,728,295 | 7,790,285 | 13 years or more | 14,620,165 | 3,820,495 | 3,796,960 | 3,919,685 | 3,083,025 |
| | (55,892) | (29,652) | (29,801) | (27,344) | (24,676) | | (34,042) | (17,515) | (18,560) | (16,978) | (14,811) |

[1]Includes data for Arizona, Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Michigan, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming; see Technical Notes.

[2]Includes data for Alabama, Alaska, Colorado, Hawaii, Iowa, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, North Carolina, Pennsylvania, Tennessee, Virginia, Wisconsin, and West Virginia; see Technical Notes.

NOTE: GED is General Educational Development high school equivalency diploma.

SOURCE: Population estimates are based on unpublished tabulations prepared by the U.S. Census Bureau, American Community Survey, 2010 1–Year.

aged 15 and over. The 2000 standard population used for computing age-adjusted rates for injury at work is shown in Table XIII.

Age-adjusted rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas were computed by applying the age-specific death rates to the U.S. standard population. The 2000 standard population used for computing age-adjusted rates for the territories is shown in Table X.

Using the same standard population, death rates for the total population and for each race-sex group were adjusted separately. The age-adjusted rates were based on 10-year age groups. Age-adjusted death rates are not comparable with crude rates.

Death rates for the Hispanic population are based only on events to persons reported as Hispanic. Hispanic origin is not imputed if it is not reported.

## Random variation

The mortality data presented in this report, with the exception of data for 1972, are not subject to sampling error. In 1972, mortality data were based on a 50% sample of deaths because of resource constraints. Mortality data, even based on complete counts, may be affected by random variation—that is, the number of deaths that actually occurred may be considered as one of a large series of possible results that could have arisen under the same circumstances (82,83). When the number of deaths is small, perhaps fewer than 100, random variation tends to be relatively large. Therefore, considerable caution must be observed in interpreting statistics based on small numbers of deaths.

*Measuring random variability*—To quantify the random variation associated with mortality statistics, an assumption must be made

**Table IX. Estimated population for the United States, each state, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 2010**

[Population estimates for the United States and each state are based on the 2010 census as of April 1, 2010. Populations for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas are postcensal estimates based on the 2010 census, estimated as of July 1, 2010]

| Area | Total | Area | Total |
|---|---|---|---|
| United States | 308,745,538 | Nevada | 2,700,551 |
| | | New Hampshire | 1,316,470 |
| Alabama | 4,779,736 | New Jersey | 8,791,894 |
| Alaska | 710,231 | New Mexico | 2,059,179 |
| Arizona | 6,392,017 | New York | 19,378,102 |
| Arkansas | 2,915,918 | North Carolina | 9,535,483 |
| California | 37,253,956 | North Dakota | 672,591 |
| Colorado | 5,029,196 | Ohio | 11,536,504 |
| Connecticut | 3,574,097 | Oklahoma | 3,751,351 |
| Delaware | 897,934 | Oregon | 3,831,074 |
| District of Columbia | 601,723 | Pennsylvania | 12,702,379 |
| Florida | 18,801,310 | Rhode Island | 1,052,567 |
| Georgia | 9,687,653 | South Carolina | 4,625,364 |
| Hawaii | 1,360,301 | South Dakota | 814,180 |
| Idaho | 1,567,582 | Tennessee | 6,346,105 |
| Illinois | 12,830,632 | Texas | 25,145,561 |
| Indiana | 6,483,802 | Utah | 2,763,885 |
| Iowa | 3,046,355 | Vermont | 625,741 |
| Kansas | 2,853,118 | Virginia | 8,001,024 |
| Kentucky | 4,339,367 | Washington | 6,724,540 |
| Louisiana | 4,533,372 | West Virginia | 1,852,994 |
| Maine | 1,328,361 | Wisconsin | 5,686,986 |
| Maryland | 5,773,552 | Wyoming | 563,626 |
| Massachusetts | 6,547,629 | | |
| Michigan | 9,883,640 | | |
| Minnesota | 5,303,925 | Puerto Rico | 3,721,978 |
| Mississippi | 2,967,297 | Virgin Islands | 106,267 |
| Missouri | 5,988,927 | Guam | 159,434 |
| Montana | 989,415 | American Samoa | 55,467 |
| Nebraska | 1,826,341 | Northern Marianas | 53,517 |

SOURCES: CDC/NCHS, estimates of April 1, 2010, U.S. resident population by age, sex, race, and Hispanic origin, prepared under a collaborative arrangement with U.S. Census Bureau, 2011, and international data base 2010, available from: http://www.census.gov/ipc/www/idb.

regarding the appropriate underlying distribution. Deaths, as infrequent events, can be viewed as deriving from a Poisson probability distribution. The Poisson distribution is simple conceptually and computationally, and provides reasonable, conservative variance estimates for mortality statistics when the probability of dying is relatively low (82). Using the properties of the Poisson distribution, the standard error (SE) associated with the number of deaths ($D$) is

1. $$\mathrm{SE}(D) = \sqrt{\mathrm{var}(D)} = \sqrt{D}$$

where var($D$) denotes the variance of $D$.

The SE associated with crude and age-specific death rates ($R$) assumes that the population denominator ($P$) is a constant and is

2. $$\mathrm{SE}(R) = \sqrt{\mathrm{var}\left(\frac{D}{P}\right)} = \sqrt{\frac{1}{P^2}\mathrm{var}(D)} = \sqrt{\frac{D}{P^2}} = \frac{R}{\sqrt{D}}$$

The coefficient of variation or relative standard error (RSE) is a useful measure of relative variation. The RSE is calculated by

**Table X. United States standard population**

| Age (years) | Population |
|---|---|
| All ages | 274,633,642 |
| Under 1 year | 3,794,901 |
| 1–4 | 15,191,619 |
| 5–14 | 39,976,619 |
| 15–24 | 38,076,743 |
| 25–34 | 37,233,437 |
| 35–44 | 44,659,185 |
| 45–54 | 37,030,152 |
| 55–64 | 23,961,506 |
| 65–74 | 18,135,514 |
| 75–84 | 12,314,793 |
| 85 and over | 4,259,173 |

**Table XI. United States standard population for ages 25 and over**

| Age (years) | Population |
|---|---|
| 25 and over | 177,593,760 |
| 25–34 | 37,233,437 |
| 35–44 | 44,659,185 |
| 45–54 | 37,030,152 |
| 55–64 | 23,961,506 |
| 65–74 | 18,135,514 |
| 75 and over | 16,573,966 |

**Table XII. United States standard population for ages 25–64**

| Age (years) | Population |
|---|---|
| 25–64 | 142,884,280 |
| 25–34 | 37,233,437 |
| 35–44 | 44,659,185 |
| 45–54 | 37,030,152 |
| 55–64 | 23,961,506 |

dividing the statistic (e.g., number of deaths or death rate) into its SE and multiplying by 100. For the number of deaths,

$$\mathrm{RSE}(D) = 100\,\frac{\mathrm{SE}(D)}{D} = 100\,\frac{\sqrt{D}}{D} = 100\sqrt{\frac{1}{D}}$$

For crude and age-specific death rates,

$$\mathrm{RSE}(R) = 100\,\frac{\mathrm{SE}(R)}{R} = 100\,\frac{R/\sqrt{D}}{R} = 100\sqrt{\frac{1}{D}}$$

Thus,

$$3.\qquad \mathrm{RSE}(D) = \mathrm{RSE}(R) = 100\sqrt{\frac{1}{D}}$$

The SE of the age-adjusted death rate ($R'$) is

$$4.\qquad \mathrm{SE}(R') = \sqrt{\sum_i \left(\frac{P_{si}}{P_s}\right)^2 \mathrm{var}\,(R_i)} = \sqrt{\sum_i \left\{\left(\frac{P_{si}}{P_s}\right)^2 \left(\frac{R_i^2}{D_i}\right)\right\}}$$

where

- $R_i$ is the age-specific rate for the $i$th age group.
- $P_{si}$ is the age-specific standard population for the $i$th age group from the U.S. standard population age distribution (see Table X and *Age-adjusted death rate* in the following "Definition of terms" section).
- $P_s$ is the total U.S. standard population (all ages combined).
- $D_i$ is the number of deaths for the $i$th age group.

The RSE for the age-adjusted rate, RSE($R'$), is calculated by dividing SE($R'$) from Formula 4 by the age-adjusted death rate, $R'$, and multiplying by 100, as in

$$\mathrm{RSE}(R') = 100\,\frac{\mathrm{SE}(R')}{R'}$$

**Table XIII. United States standard population for ages 15 and over**

| Age (years) | Population |
|---|---|
| 15 and over | 215,670,503 |
| 15–24 | 38,076,743 |
| 25–34 | 37,233,437 |
| 35–44 | 44,659,185 |
| 45–54 | 37,030,152 |
| 55–64 | 23,961,506 |
| 65 and over | 34,709,480 |

For tables showing infant mortality rates based on live births ($B$) in the denominator, calculation of the SE assumes random variability in both the numerator and denominator. The SE for the infant mortality rate ($IMR$) is

$$5.\qquad \mathrm{SE}(IMR) = \sqrt{\frac{\mathrm{var}(D) + IMR \bullet \mathrm{var}(B)}{E(B)^2}} = \sqrt{\frac{D}{B^2} + \frac{D^2}{B^3}}$$

where the number of births, $B$, is also assumed to be distributed according to a Poisson distribution, and $E(B)$ is the expectation of $B$.

The RSE for the $IMR$ is

$$6.\qquad \mathrm{RSE}(IMR) = 100\,\frac{\mathrm{SE}(IMR)}{IMR} = 100\sqrt{\frac{1}{D} + \frac{1}{B}}$$

Formulas 1–6 may be used for all tables presented in this report except for death rates and age-adjusted death rates shown in Tables 5, I–7, and I–8, which are calculated using population figures that are subject to sampling error.

*Tables 5, I–7, and I–8*—Death rates for Mexican, Puerto Rican, Cuban, Central and South American, and Other Hispanic populations in Table 5, by marital status in Table I–7, and by educational attainment in Table I–8 are based on population estimates derived from ACS (70) for 2010 and adjusted to resident population control totals. As a result, the rates are subject to sampling variability in the denominator as well as random variability in the numerator.

For crude and age-specific death rates ($R$), the standard error is calculated as

$$7.\qquad \mathrm{SE}(R) = R\sqrt{\frac{1}{D} + \left(\frac{SE(P)}{P}\right)^2}$$

For age-adjusted death rates ($R'$),

$$8.\qquad \mathrm{SE}(R') = \sqrt{\sum_i \left\{\left(\frac{P_{si}}{P_s}\right)^2 R_i^2 \left[\frac{1}{D_i} + \left(\frac{SE(P_i)}{P_i}\right)^2\right]\right\}}$$

where $SE(P)$ in Formulas 7 and 8 represents the SEs of ACS population estimates. The SEs of ACS population estimates used in this report are presented in Table VI by Mexican, Puerto Rican, Cuban, Central and South American, and Other Hispanic populations; in Table VII by marital status; and in Table VIII by educational attainment.

*Suppression of unreliable rates*—Beginning with 1989 data, an asterisk is shown in place of a crude or age-specific death rate based on fewer than 20 deaths, the equivalent of an RSE of 23% or more. The limit of 20 deaths is a convenient, if somewhat arbitrary, benchmark, below which rates are considered to be too statistically unreliable for presentation. For infant mortality rates, the same threshold of fewer than 20 deaths is used to determine whether an asterisk is presented in place of the rate. For age-adjusted death rates, the suppression criterion is based on the sum of age-specific deaths; that is, if the sum of the age-specific deaths is less than 20, an asterisk replaces the rate. These procedures are used throughout this report except for death rates shown in Tables 5, I–7, and I–8.

In Tables 5, I–7, and I–8, sampling variability in the population denominator has a substantial impact on the overall variability in the death rate. Therefore, the number of deaths in the numerator is not used as the sole suppression factor. RSEs for rates shown in Tables 5,

I–7, and I–8 are derived from Formulas 7 and 8 by dividing the result of Formula 7 by the crude or age-specific rate, and the result of Formula 8 by the age-adjusted rate, and then multiplying by 100. Rates are replaced by asterisks if the calculated RSE is 23% or more.

*Confidence intervals and statistical tests based on 100 deaths or more*—When the number of deaths is large, a normal approximation may be used in calculating confidence intervals and statistical tests. How large, in terms of number of deaths, is to some extent subjective. In general, for crude and age-specific death rates and for infant mortality rates, the normal approximation performs well when the number of deaths is 100 or greater. For age-adjusted rates, the criterion for use of the normal approximation is somewhat more complicated (58,81,83). Formula 9 is used to calculate 95% confidence limits for the death rate when the normal approximation is appropriate:

9. $L(R) = R - 1.96(SE(R))$ and $U(R) = R + 1.96(SE(R))$

where *L(R)* and *U(R)* are the lower and upper limits of the confidence interval, respectively. The resulting 95% confidence interval can be interpreted to mean that the chances are 95 in 100 that the "true" death rate falls between *L(R)* and *U(R)*. For example, suppose that the crude death rate for Malignant neoplasms is 186.0 per 100,000 population based on 565,469 deaths. Lower and upper 95% confidence limits using Formula 9 are calculated as

$L(186.0) = 186.0 - 1.96(.25) = 185.5$ and
$U(186.0) = 186.0 + 1.96(.25) = 186.5$

Thus, the chances are 95 in 100 that the true death rate for malignant neoplasms is between 185.5 and 186.5. Formula 9 can also be used to calculate 95% confidence intervals for the number of deaths, age-adjusted death rates, infant mortality rates, and other mortality statistics when the normal approximation is appropriate by replacing *R* with *D*, *R′*, *IMR*, or others.

When testing the difference between two rates, $R_1$ and $R_2$ (each based on 100 or more deaths), the normal approximation may be used to calculate a test statistic, *z*, such that

10. $$z = \frac{R_1 - R_2}{\sqrt{SE(R_1)^2 + SE(R_2)^2}}$$

If $|z| \geq 1.96$, then the difference between the rates is statistically significant at the 0.05 level. If $|z| < 1.96$, then the difference is not statistically significant. Formula 10 can also be used to perform tests for other mortality statistics when the normal approximation is appropriate (when both statistics being compared meet the normal criteria) by replacing $R_1$ and $R_2$ with $D_1$ and $D_2$, $R'_1$ and $R'_2$, or others. For example, suppose that the male age-adjusted death rate for Malignant neoplasms of trachea, bronchus, and lung (lung cancer) is 65.1 per 100,000 U.S. standard population in the previous year ($R_1$) and 63.6 per 100,000 U.S. standard population in the current data year ($R_2$). The SE for each of these figures, $SE(R_1)$ and $SE(R_2)$, is calculated using Formula 4. A test using Formula 10 can determine if the decrease in the age-adjusted rate is statistically significant:

$$z = \frac{65.1 - 63.6}{\sqrt{(0.222)^2 + (0.217)^2}} = 4.83$$

Because $z = 4.83 > 1.96$, the decrease from the previous data year to the current data year in the male age-adjusted death rate for lung cancer is statistically significant.

*Confidence intervals and statistical tests based on fewer than 100 deaths*—When the number of deaths is not large (fewer than 100), the Poisson distribution cannot be approximated by the normal distribution. The normal distribution is symmetrical, with a range from $-\infty$ to $+\infty$. As a result, confidence intervals based on the normal distribution also have this range. The number of deaths or the death rate, however, cannot be less than zero. When the number of deaths is very small, approximating confidence intervals for deaths and death rates using the normal distribution will sometimes produce lower confidence limits that are negative. The Poisson distribution, in contrast, is an asymmetric distribution with zero as a lower bound—confidence limits based on this distribution will never be less than zero. A simple method based on the more general family of gamma distributions, of which the Poisson is a member, can be used to approximate confidence intervals for deaths and death rates when the number of deaths is small (81,83). For more information regarding how the gamma method is derived, see "*Derivation of the gamma method*" at the end of this section.

Calculations using the gamma method can be made using commonly available spreadsheet programs or statistical software (e.g., Excel or SAS) that include an inverse gamma function. In Excel, the function "gammainv (probability, alpha, beta)" returns values associated with the inverse gamma function for a given probability between 0 and 1. For 95% confidence limits, the probability associated with the lower limit is 0.05/2 = 0.025, and with the upper limit, 1–(0.05/2) = 0.975. Alpha and beta are parameters associated with the gamma distribution. For the number of deaths and crude and age-specific death rates, alpha = *D* (the number of deaths) and beta = 1. In Excel, the following formulas can be used to calculate lower and upper 95% confidence limits for the number of deaths and crude and age-specific death rates:

$L(D)$ = GAMMAINV(.025, *D*, 1) and $U(D)$ = GAMMAINV(.975, *D*+1, 1)

Confidence limits for the death rate are then calculated by dividing *L(D)* and *U(D)* by the population *(P)* at risk of dying (Formula 17).

Alternatively, 95% confidence limits can be estimated using the lower and upper confidence limit factors shown in Table XIV. For the number of deaths, *D*, and the death rate, *R*,

11. $L(D) = L \times D$ and $U(D) = U \times D$

12. $L(R) = L \times R$ and $U(R) = U \times R$

where *L* and *U* in both formulas are the lower and upper confidence limit factors that correspond to the appropriate number of deaths, *D*, in Table XIV. For example, suppose that the death rate for AIAN females aged 1–4 is 39.5 per 100,000 and based on 50 deaths. Applying Formula 12, values for *L* and *U* from Table XIV for 50 deaths are multiplied by the death rate, 39.5, such that

$L(R) = L(39.5) = 0.742219 \times 39.5 = 29.3$ and
$U(R) = U(39.5) = 1.318375 \times 39.5 = 52.1$

These confidence limits indicate that the chances are 95 out of 100 that the actual death rate for AIAN females aged 1–4 is between 29.3 and 52.1 per 100,000.

**Table XIV. Lower and upper 95% confidence limit factors for the number of deaths and death rate when the number of deaths is less than 100**

| Number of deaths (*D*) | Lower confidence limit (*L*) | Upper confidence limit (*U*) | Number of deaths (*D*) | Lower confidence limit (*L*) | Upper confidence limit (*U*) |
|---|---|---|---|---|---|
| 1 | 0.025318 | 5.571643 | 51 | 0.744566 | 1.314815 |
| 2 | 0.121105 | 3.612344 | 52 | 0.746848 | 1.311367 |
| 3 | 0.206224 | 2.922424 | 53 | 0.749069 | 1.308025 |
| 4 | 0.272466 | 2.560397 | 54 | 0.751231 | 1.304783 |
| 5 | 0.324697 | 2.333666 | 55 | 0.753337 | 1.301637 |
| 6 | 0.366982 | 2.176579 | 56 | 0.755389 | 1.298583 |
| 7 | 0.402052 | 2.060382 | 57 | 0.757390 | 1.295616 |
| 8 | 0.431729 | 1.970399 | 58 | 0.759342 | 1.292732 |
| 9 | 0.457264 | 1.898311 | 59 | 0.761246 | 1.289927 |
| 10 | 0.479539 | 1.839036 | 60 | 0.763105 | 1.287198 |
| 11 | 0.499196 | 1.789276 | 61 | 0.764921 | 1.284542 |
| 12 | 0.516715 | 1.746799 | 62 | 0.766694 | 1.281955 |
| 13 | 0.532458 | 1.710030 | 63 | 0.768427 | 1.279434 |
| 14 | 0.546709 | 1.677830 | 64 | 0.770122 | 1.276978 |
| 15 | 0.559692 | 1.649348 | 65 | 0.771779 | 1.274582 |
| 16 | 0.571586 | 1.623937 | 66 | 0.773400 | 1.272245 |
| 17 | 0.582537 | 1.601097 | 67 | 0.774986 | 1.269965 |
| 18 | 0.592663 | 1.580431 | 68 | 0.776539 | 1.267738 |
| 19 | 0.602065 | 1.561624 | 69 | 0.778060 | 1.265564 |
| 20 | 0.610826 | 1.544419 | 70 | 0.779549 | 1.263440 |
| 21 | 0.619016 | 1.528606 | 71 | 0.781008 | 1.261364 |
| 22 | 0.626695 | 1.514012 | 72 | 0.782438 | 1.259335 |
| 23 | 0.633914 | 1.500491 | 73 | 0.783840 | 1.257350 |
| 24 | 0.640719 | 1.487921 | 74 | 0.785215 | 1.255408 |
| 25 | 0.647147 | 1.476197 | 75 | 0.786563 | 1.253509 |
| 26 | 0.653233 | 1.465232 | 76 | 0.787886 | 1.251649 |
| 27 | 0.659006 | 1.454947 | 77 | 0.789184 | 1.249828 |
| 28 | 0.664493 | 1.445278 | 78 | 0.790459 | 1.248045 |
| 29 | 0.669716 | 1.436167 | 79 | 0.791709 | 1.246298 |
| 30 | 0.674696 | 1.427562 | 80 | 0.792938 | 1.244587 |
| 31 | 0.679451 | 1.419420 | 81 | 0.794144 | 1.242909 |
| 32 | 0.683999 | 1.411702 | 82 | 0.795330 | 1.241264 |
| 33 | 0.688354 | 1.404372 | 83 | 0.796494 | 1.239650 |
| 34 | 0.692529 | 1.397400 | 84 | 0.797639 | 1.238068 |
| 35 | 0.696537 | 1.390758 | 85 | 0.798764 | 1.236515 |
| 36 | 0.700388 | 1.384422 | 86 | 0.799871 | 1.234992 |
| 37 | 0.704092 | 1.378368 | 87 | 0.800959 | 1.233496 |
| 38 | 0.707660 | 1.372578 | 88 | 0.802029 | 1.232028 |
| 39 | 0.711098 | 1.367033 | 89 | 0.803082 | 1.230586 |
| 40 | 0.714415 | 1.361716 | 90 | 0.804118 | 1.229170 |
| 41 | 0.717617 | 1.356613 | 91 | 0.805138 | 1.227778 |
| 42 | 0.720712 | 1.351709 | 92 | 0.806141 | 1.226411 |
| 43 | 0.723705 | 1.346993 | 93 | 0.807129 | 1.225068 |
| 44 | 0.726602 | 1.342453 | 94 | 0.808102 | 1.223747 |
| 45 | 0.729407 | 1.338079 | 95 | 0.809060 | 1.222448 |
| 46 | 0.732126 | 1.333860 | 96 | 0.810003 | 1.221171 |
| 47 | 0.734762 | 1.329788 | 97 | 0.810933 | 1.219915 |
| 48 | 0.737321 | 1.325855 | 98 | 0.811848 | 1.218680 |
| 49 | 0.739806 | 1.322053 | 99 | 0.812751 | 1.217464 |
| 50 | 0.742219 | 1.318375 | | | |

Although the calculations are similar, confidence intervals based on small numbers for age-adjusted death rates, infant mortality rates, and rates that are subject to sampling variability in the denominator are somewhat more complicated (58,83).

Refer to the most recent version of the Mortality Technical Appendix for more details at http://www.cdc.gov/nchs/products/vsus.htm.

When comparing the difference between two rates ($R_1$ and $R_2$), where one or both of the rates are based on fewer than 100 deaths, a comparison of 95% confidence intervals may be used as a statistical test. If the 95% confidence intervals do not overlap, then the difference can be said to be statistically significant at the 0.05 level. A simple rule of thumb is: If $R_1 > R_2$, then test if $L(R_1) > U(R_2)$, and if $R_2 > R_1$, then test if $L(R_2) > U(R_1)$. Positive tests denote statistical significance at the

0.05 level. For example, suppose that AIAN females aged 1–4 have a death rate ($R_1$) of 39.5 based on 50 deaths and API females aged 1–4 have a death rate ($R_2$) of 20.1 per 100,000 based on 86 deaths. The 95% confidence limits for $R_1$ and $R_2$ calculated using Formula 12 would be

$L(R_1) = L(39.5) = 0.742219 \times 39.5 = 29.3$ and
$U(R_1) = U(39.5) = 1.318375 \times 39.5 = 52.1$

$L(R_2) = L(20.1) = 0.799871 \times 17.9 = 16.1$ and
$U(R_2) = U(20.1) = 1.234992 \times 17.9 = 24.8$

Because $R_1 > R_2$ and $L(R_1) > U(R_2)$, it can be concluded that the difference between the death rates for AIAN females aged 1–4 and API females of the same age is statistically significant at the 0.05 level. That is, taking into account random variability, API females aged 1–4 have a death rate significantly lower than that for AIAN females of the same age.

This test may also be used to perform tests for other statistics when the normal approximation is not appropriate for one or both of the statistics being compared, by replacing $R_1$ and $R_2$ with $D_1$ and $D_2$, $R'_1$ and $R'_2$, or others.

Users of the method of comparing confidence intervals should be aware that this method is a conservative test for statistical significance—the difference between two rates may, in fact, be statistically significant even though confidence intervals for the two rates overlap (84). Caution should be observed when interpreting a nonsignificant difference between two rates, especially when the lower and upper limits being compared overlap only slightly.

*Derivation of the gamma method*—For a random variable $X$ that follows a gamma distribution $\Gamma(y,z)$, where $y$ and $z$ are the parameters that determine the shape of the distribution (85), $E(X) = yz$ and $Var(X) = yz^2$. For the number of deaths, $D$, $E(D) = D$ and $Var(D) = D$. It follows that $y = D$ and $z = 1$, and thus,

13. $D \sim \Gamma(D,1)$

From Equation 13, it is clear that the shape of the distribution of deaths depends only on the number of deaths.

For the death rate, $R$, $E(R) = R$ and $Var(R) = D/P^2$. It follows, in this case, that $y = D$ and $z = P^{-1}$, and thus,

14. $R \sim \Gamma(D,P^{-1})$

A useful property of the gamma distribution is that for $X \sim \Gamma(y,z)$, $X$ can be divided by $z$ such that $X/z \sim \Gamma(y,1)$. This converts the gamma distribution into a simplified, standard form, dependent only on parameter $y$. Expressing Equation 14 in its simplified form gives:

15. $\dfrac{R}{P^{-1}} = D \sim \Gamma(D,1)$

From Equation 15, it is clear that the shape of the distribution of the death rate is also dependent solely on the number of deaths.

Using the results of Equations 13 and 15, the inverse gamma distribution can be used to calculate upper and lower confidence limits. Lower and upper $100(1-\alpha)$ percent confidence limits for the number of deaths, $L(D)$ and $U(D)$, are estimated as

16. $L(D) = \Gamma^{-1}{}_{(D,1)}(\alpha/2)$ and $U(D) = \Gamma^{-1}{}_{(D+1,1)}(1-\alpha/2)$

where $\Gamma^{-1}$ represents the inverse of the gamma distribution and $D+1$ in the formula for $U(D)$ reflects a continuity correction, which is necessary because $D$ is a discrete random variable and the gamma distribution is a continuous distribution. For a 95% confidence interval, $\alpha = .05$. For the death rate, it can be shown that:

17. $L(R) = \dfrac{L(D)}{P}$ and $U(R) = \dfrac{U(D)}{P}$

For more detail regarding the derivation of the gamma method and its application to age-adjusted death rates and other mortality statistics, see "References" (58,83,85).

## Availability of mortality data

Mortality data are available in publications, unpublished tables, and electronic products as described on the NCHS mortality website: http://www.cdc.gov/nchs/deaths.htm. More detailed analysis than this report provides can be derived from the mortality public-use data set issued each data year. Since 1968, the data set has been available through NCHS in ASCII format and can now be downloaded from http://www.cdc.gov/nchs/data_access/Vitalstatsonline.htm. Additional resources available from NCHS include *Vital Statistics of the United States*, Mortality; *Vital and Health Statistics*, Series 20 reports; and *National Vital Statistics Reports*.

## Definition of terms

*Infant deaths*—Deaths of infants under age 1 year.

*Neonatal deaths*—Deaths of infants aged 0–27 days.

*Postneonatal deaths*—Deaths of infants aged 28 days–11 months.

*Crude death rate*—Total deaths per 100,000 population for a specified period. This rate represents the average chance of dying during a specified period for persons in the entire population.

*Age-specific death rate*—Deaths per 100,000 population in a specified age group, such as 1–4 or 5–9, for a specified period.

*Age-adjusted death rate*—The death rate used to make comparisons of relative mortality risks across groups and over time. This rate should be viewed as a construct or an index rather than a direct or actual measure of mortality risk. Statistically, it is a weighted average of age-specific death rates, where the weights represent the fixed population proportions by age.

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