National Vital Statistics Reports





Volume 49, Number 8 September 21, 2001

Deaths: Final Data for 1999

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Abstract

Objectives—This report presents final 1999 data on U.S. deaths and death rates according to demographic and medical characteristics. Trends and patterns in general mortality, life expectancy, and infant and maternal mortality are also described. A previous report presented preliminary mortality data for 1999.

Methods—In 1999 a total of 2,391,399 deaths were reported in the United States. This report presents tabulations of information reported on the death certificates completed by funeral directors, attending physicians, medical examiners, and coroners. Original records are filed in the State registration offices. Statistical information is compiled into a national data base through the Vital Statistics Cooperative Program of the National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention. For the first time in a final mortality data report, age-adjusted death rates are based upon the year 2000 population and causes of death are processed in accordance with the Tenth Revision of the International Classification of Diseases (ICD-10).

Results—The 1999 age-adjusted death rate for the United States was 881.9 deaths per 100,000 standard population, a 0.7 percent increase from the 1998 rate, and life expectancy at birth remained the same at 76.7 years. For all causes of death, age-specific death rates rose for those 45–54 years, 75–84 years, and 85 years and over and declined for a number of age groups including those 5–14 years, 55–64 years, and 65–74 years. Aortic aneurysm and dissection made its debut in the list of leading causes of death and atherosclerosis exited from the list. Heart disease and cancer continued to be the leading and second leading causes of death. The age-adjusted death rate for firearm injuries decreased for the sixth consecutive year, declining 6.2 percent between 1998 and 1999. The infant mortality rate, 7.1 infant deaths per 1,000 live births, was not statistically different from the rate in 1998.

Conclusions—Generally, mortality continued long-term trends. Life expectancy in 1999 was unchanged from 1998 despite a slight increase in the age-adjusted death rate from the record low achieved in 1998. Although statistically unchanged from 1998, the trend in infant mortality has been of a steady but slowing decline. Some mortality measures for women and persons 85 years and over worsened between 1998 and 1999.

Keywords: deaths • mortality • cause of death • life expectancy • vital statistics • ICD-10

Highlights

Mortality experience in 1999

- In 1999 a total of 2,391,399 deaths occurred in the United States.
- The age-adjusted death rate, which eliminates the effects of the aging of the population, was 881.9 deaths per 100,000 U.S. standard population.
- Life expectancy at birth was 76.7 years.
- The leading causes of death in 1999 were as follows:

Diseases of heart (heart disease)

Malignant neoplasms (cancer)

Cerebrovascular diseases (stroke)

Chronic lower respiratory diseases (chronic respiratory disease)

Accidents (unintentional injuries)

Diabetes mellitus (diabetes)

Influenza and pneumonia (influenza and pneumonia)

Alzheimer's disease

Acknowledgments

This report was prepared in the Division of Vital Statistics under the general direction of Harry M. Rosenberg, Special Assistant, and James A. Weed, Acting Chief, Mortality Statistics Branch (MSB). Robert N. Anderson and Peter B. de Turk of the Mortality Statistics Branch provided content related to life expectancy. Robert N. Anderson of the Mortality Statistics Branch, David W. Justice of the Data Acquisition and Evaluation Branch, and Van L. Parsons of the Office of Research and Methodology contributed to the Technical notes. Thomas D. Dunn of the Systems, Programming and Statistical Resources Branch provided statistical tables and content review. Gail A. Parr, Jordan A. Sacks, Manju Sharma, and Charles E. Royer of the Systems, Programming and Statistical Resources Branch provided computer programming support. Steven J. Steimel and David P. Johnson of the Systems, Programming and Statistical Resources Branch prepared the mortality file. Staff of the Mortality Statistics Branch provided content and table review. Registration Methods Branch staff and staff of the Data Acquisition and Evaluation Branch provided consultation to State vital statistics offices regarding collection of the death certificate data on which this report is based. This report was edited by Thelma W. Sanders, typeset by Jacqueline M. Davis, and the graphics produced by Jarmila G. Ogburn of the Publications Branch, Division of Data

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Nephritis, nephrotic syndrome and nephrosis (kidney disease)

Septicemia (septicemia)

Intentional self-harm (suicide)

Chronic liver disease and cirrhosis (chronic liver disease)

Essential (primary) hypertension and hypertensive renal disease (hypertension)

Assault (homicide)

Aortic aneurysm and dissection (aortic aneurysm)

- In 1999 the infant mortality rate was 7.1 infant deaths per 1,000 live births.
- The leading causes of infant death were as follows:

Congenital malformations, deformations, and chromosomal abnormalities (congenital malformations)

Disorders relating to short gestation and low birth weight, not elsewhere classified (low birthweight)

Sudden infant death syndrome (SIDS)

Newborn affected by maternal complications of pregnancy (maternal complications)

Respiratory distress syndrome (RDS)

Newborn affected by complications of placenta, cord, and membranes (cord and placental complications)

Accidents (unintentional injuries)

Bacterial sepsis of newborn (bacterial sepsis)

Diseases of the circulatory system (circulatory diseases)

Atelectasis (atelectasis)

Trends

- The age-adjusted death rate increased between 1998 and 1999; however, the 1999 rate is the second lowest rate ever.
- Life expectancy is 76.7 years, the same as the record high achieved in 1998. New record life expectancy levels were achieved by the total black population, white males, and black males. Life expectancy for women decreased for the first time since 1995 reflecting increases in mortality from chronic respiratory disease, diabetes, septicemia, and hypertension that were greater than decreases in other causes of death.
- Age-adjusted death rates decreased for 6 of the 15 leading causes of death and increased for 5 of the 15 leading causes of death.
 Decreasing trends for cancer, stroke, suicide, homicide, and firearm injuries continue. Increasing trends for chronic respiratory disease, diabetes, septicemia, and hypertension continue.
- Gaps between men and women continue to narrow with the age-adjusted death rates for men 1.4 times greater than women and life expectancy for men lagging behind that for women by 5.5 years.
- Gaps between the black and white population persist with ageadjusted death rates 1.3 times greater, infant mortality rates 2.5
 times greater, and maternal mortality 3.8 times greater for the
 black population than that for the white population. Life expectancy
 for the white population exceeds that for the black population by
 5.9 years continuing the trend toward convergence in life expectancy and age-adjusted death rates.
- Infant mortality rate continues to trend downward although single year changes have not been statistically different for several years.

Technical changes

- Year 2000 Population Standard: Magnitude of age-adjusted death rates is much greater than in previous years' report because rates are calculated using a different standard population, with an older age structure. Trends are generally unaffected, but differentials in age-adjusted death rates between groups are affected by the change in standard population.
- ICD-10: new titles and codes are introduced with the implementation of a new cause-of-death classification, International Classification of Diseases (ICD-10). Breaks are created in the comparability of cause-of-death statistics because of coding and classification changes, but preliminary measurements of comparability between revisions are available. Leading causes of death are restructured with the implementation of ICD-10.

Introduction

This report represents the release of final national mortality statistics for 1999 and presents detailed data on deaths and death rates according to a number of social, demographic, and medical characteristics. These data provide information on mortality patterns among Americans by such variables as age, sex, race, Hispanic origin, marital status, educational attainment, injury at work, State of residence, and cause of death. Information on these mortality patterns is important for understanding changes in the health and well-being of the U.S. population (1). Preliminary data for 1999 were presented in the report Deaths: Preliminary Data for 1999 using a 99-percent sample of 1999 U.S. deaths weighted to independent control totals (2). The findings in this report based on the final mortality file are generally consistent with those based on preliminary data; the final mortality file incorporates some modifications to the preliminary file as described in the Technical notes. Separate companion reports present additional details on leading causes of death and geographic patterns of mortality (3,4).

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

Methods

Data in this report are based on information from all death certificates filed in the 50 States and the District of Columbia. It is believed that more than 99 percent of deaths occurring in this country are registered (5). Tables showing data by State also provide information for Puerto Rico, the 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 *Tenth Revision, International Classification of Diseases* (ICD-10) (6). A discussion of the cause-of-death classification is provided below and in the *Technical* notes.

Mortality data on specific demographic and medical characteristics except educational attainment cover all 50 States and the District of Columbia. Educational attainment data are provided for 46 States and

the District of Columbia. Details on reporting areas for educational attainment are provided in the Technical notes.

Measures of mortality in this report include the number of deaths; crude, age-specific, and age-adjusted death rates; infant, neonatal, postneonatal, and maternal mortality rates; life expectancy; and rate ratios. Changes in death rates from 1998 to 1999 and differences in death rates across demographic groups in 1999 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 is presented in the Technical notes. Data in this report are based in part on unpublished work tables. These and other data are available on the NCHS Web site, at http://www.cdc.gov/nchs/about/major/dvs/mortdata.htm and on the forthcoming CD-ROM entitled, https://www.cdc.gov/nchs/about/major/dvs/mortdata.htm and on the forthcoming CD-ROM entitled, https://www.cdc.gov/nchs/about/major/dvs/mort

Change in the population standard for age-adjusted death rates

This is the first report of final mortality statistics that uses the new standard population for age-adjusting death rates, the estimated year 2000 population, which replaces the prior standard, the estimated year 1940 population. The statistical consequences of the new standard are generally to increase the magnitude of rates and to affect differentials between groups and over time but not to alter trends (also see section on Computing rates in Technical notes) (7). Age-adjusted death rates using the year 2000 standard population for data years before 1999 are available on the NCHS Web page, at http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs/hist-tabs.htm.

Introduction to the Tenth Revision (ICD-10)

Effective with data for 1999, causes of death are classified by the *Tenth Revision International Classification of Diseases* (ICD-10) (6), replacing the Ninth Revision (ICD-9)(8) used for 1979-98 data. This change has had several consequences: 1) new cause-of-death titles and corresponding cause-of-death codes; 2) breaks in comparability over time for cause-of-death statistics; and 3) restructuring of the leading causes of death.

Cause-of-death titles in ICD-10 differ in some cases from those in ICD-9 (table I). For 7 of the 15 leading causes of death the titles for ICD-10 are the same as for ICD-9. The 10 leading causes of infant death were also affected by the introduction of ICD-10. For 4 of the 10 leading causes of infant death (table II), the titles for ICD-10 are the same as for ICD-9.

Breaks in the comparability of some cause-of-death statistics result from changes in category titles, changes in the structure and content of the classification, and from changes in the coding rules used to select the underlying cause of death. The measures of comparison—the "comparability ratio"—for the causes of death shown in this report are published in a separate report (9) and are reproduced in tables III and IV in the Technical notes (for further discussion see section on Comparability between ICD–9 and ICD–10 for mortality in Technical notes). The measures of comparability are "preliminary" in that they are based on a large sample believed to be relatively

representative of the entire mortality file. Final comparability ratios will result from a study currently underway.

For two causes of death—Alzheimer's disease and kidney disease—caution must be exercised in interpreting differences in mortality between 1998 and 1999 data due to possible underestimates of comparability ratios (see section on Selected causes of death with problems of interpretation in Technical notes). For three other causes of death, major breaks occurred in comparability between ICD—9 and ICD—10 (table III): septicemia had 19 percent more deaths assigned under ICD—10 than under ICD—9; hypertension, 12 percent more; and influenza and pneumonia, 30 percent fewer. Smaller discontinuities occurred for three additional leading causes of death. Stroke had an estimated 6 percent more deaths; chronic respiratory disease, 5 percent more; and chronic liver disease, 4 percent more. For the remaining 7 of the 15 leading causes of death, little or no change occurred in the number of deaths assigned in the successive revisions.

For two infant causes of death—atelectasis and SIDS—caution must be exercised in interpreting differences in mortality between 1998 and 1999 data due to possible limitations in the comparability ratio estimates (see section on Selected causes of death with problems of interpretation in Technical notes). For three of the leading causes of infant death, major breaks occurred in comparability between ICD—9 and ICD—10 (table IV): low birthweight had 11 percent more deaths assigned under ICD—10 than ICD—9; and circulatory diseases, 29 percent fewer. Smaller discontinuities occurred for four conditions: congenital malformations and bacterial sepsis each had an estimated 9 percent fewer deaths; Cord and placental complications, 5 percent more. The remaining leading causes of death had less than 2 percent change in the number of deaths assigned in the successive revisions.

In tables 8 and 19–21 age-adjusted death rates by cause of death for 1999 are compared with the "comparability-modified" 1998 age-adjusted death rates. The comparability-modified rates are comparable quantitatively to the 1999 rates. Differences between the rates represent estimates of the true changes that occurred between 1998 and 1999, taking into account the break in comparability resulting from implementing the Tenth Revision of the ICD (for further discussion, see sections on Comparability between ICD–9 and ICD–10 for mortality and Random variation in Technical notes).

As a consequence of the major effort involved in implementing a new revision of the ICD, a number of States did not confirm cause of death for selected rare causes of death that normally are rigorously verified, such as Cholera or Exposure to radiation (see Technical notes on Rare causes of death).

Results and discussion

Deaths and death rates

In 1999 a total of 2,391,399 deaths were registered in the United States, 54,143 more than in 1998. The crude death rate for 1999, 877.0 deaths per 100,000 population, was 1.4 percent higher than the 1998 rate (864.7).

The age-adjusted death rate in 1999 was 881.9 deaths per 100,000 U.S. standard population, 0.7 percent higher than the record-low rate of 875.8 in 1998. 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.

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(For a discussion of age-adjusted death rates, see Technical notes.) Thus, they 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. Also, age-adjusted death rates 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 compositions. Since 1980 the age-adjusted death rate has decreased every year except 1983, 1985, 1988, 1993, and 1999, when influenza outbreaks contributed to increased mortality in the United States (10–13). Between 1980 and 1999 the age-adjusted death rate declined 15.1 percent (figure 1 and table 1).

Race—The 1999 age-adjusted death rates for the major race groups were as follows: the rate for the white population was 860.7 deaths per 100,000 U.S. standard population; black population, 1,147.1; American Indian, 716.1; and Asian or Pacific Islander, 517.5. Rates for the American Indian and Asian or Pacific Islander populations should be interpreted with caution because of reporting problems on the death certificate and in population censuses and surveys. The net effect of the reporting problems is for the American Indian rate to be approximately 21 percent understated and the Asian or Pacific Islander rate to be approximately 11 percent understated (14).

In 1999 the age-adjusted death rate for males of all races was 1.4 times that for females (table C), less than in the previous year and continuing the convergence in mortality risk between males and females. During 1940–80 rates for males and females diverged as the rates for females declined more than for males (48.9 and 31.8 percent, respectively). However, since 1980, age-adjusted death rates have decreased considerably less for females than males (9.1 and 21.2 percent, respectively), with the result that the gap between male and female mortality is narrowing (table 1).

In 1999 the age-adjusted death rate for the black population was 1.3 times that for the white population (table C); that is, the average risk of death for the black population is about one-third higher than for the white population. The ratio was the same in 1998. For 1960–82 rates for the black and white populations declined by similar percents (22.6 and 26.5 percent, respectively). For 1982–88 rates diverged (15)

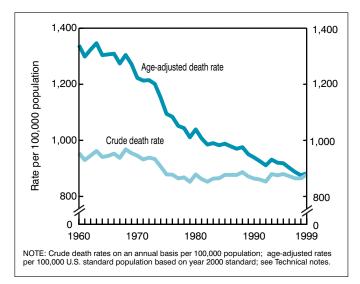


Figure 1. Crude and age-adjusted death rates: United States, 1960–99

as they increased 5.2 percent for the black population and decreased 1.7 percent for the white population. Since 1988 rates between the two major race groups have converged slightly, as rates declined by 10.7 percent for the black and by 9.2 percent for the white population.

Between 1998 and 1999 age-adjusted death rates increased for two of the four major race-sex groups after record lows for all groups in 1998. The increases were 1.8 percent for black females (955.0) and 1.5 percent for white females (725.7) (tables A and 1). The 1999 rates for white and black males were not statistically different from the 1998 rates. Age-adjusted death rates declined most years between 1980 and 1999 for white males and females. The rate for white males last rose in 1993 while the previous increase for white females was in 1995. For black males age-adjusted death rates tended to decrease except for a period of increase between 1983 and 1988; rates for black females have tended to decrease but with considerable fluctuation from year to year.

Hispanic origin—Problems of race and Hispanic-origin classification affect the level of Hispanic death rates and the relative levels compared with the non-Hispanic population (see Technical notes). Mortality of Hispanics is somewhat understated because of net underreporting of Hispanic origin on the death certificate. Hispanic origin on the death certificate may be underreported by an estimated 7 percent (14) (see Technical notes). Mitigating this somewhat is undercoverage of the Hispanic population in the census and in annual population estimates based on the census (14). Between 1998 and 1999 the age-adjusted death rate (table B) increased by 0.8 percent for the Hispanic, total non-Hispanic, and non-Hispanic white populations and by 1.2 percent for the non-Hispanic black population. However, the increase for the Hispanic population was not statistically significant.

Among Hispanic males the difference in age-adjusted death rates between 1998 and 1999 was not statistically significant (table B). For females the rate increased between 1998 and 1999 for the Hispanic population (2.5 percent).

In 1999 the age-adjusted death rate (tables 3 and 4), which controls for age-composition differences, was 31 percent lower for the Hispanic population than for the non-Hispanic white population and 49 percent lower than for the non-Hispanic black population. The large differences in mortality between the Hispanic and non-Hispanic populations is largely a function of the Hispanic population's lower age-specific death rates at older ages. Part of the difference is also due to underreporting of Hispanic origin on the death certificate (see Technical notes).

Within the Hispanic population the age-adjusted death rate for males was 1.5 times that for females. The male-to-female ratio differed substantially by age, with Hispanic males experiencing rates more than two times those for Hispanic females for 10-year age groups in the range 15–54 years. The ratio ranged between 1.2 and 1.4 for ages under 15 years and between 1.1 and 1.9 for ages 55 years and over.

The age-adjusted death rates among the Hispanic subgroups ranged from a low of 555.5 for the Cuban population to a high of 829.9 for the Puerto Rican population. Differences between each subgroup, especially between each subgroup and the Puerto Rican population, were not statistically significant, likely a function of large variation in age-specific death rates for some of the Hispanic subgroups, reflecting their relatively small population sizes. Data aggregated over several years confirm differences among the Hispanic subgroups in mortality (16).

Table A. Percent change in death rates and age-adjusted death rates between 1998 and 1999 by age, race, and sex: United States

[Age-adjusted death rates based on year 2000 U.S. standard population; see Technical notes]

		All races ¹			White			Black	
Age	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
					Percent chang	је			
All ages:									
Crude	1.4	0.6	2.2	1.5	0.8	2.3	1.1	0.3	2.0
Age-adjusted	0.7	-0.3	1.5	0.7	-0.3	1.5	1.0	0.1	1.8
Jnder 1 year ²	-2.6	-2.0	-3.4	-3.8	-2.3	-5.5	-0.3	-1.4	0.9
–4 years	0.3	2.4	-1.9	2.0	4.3	-0.4	-4.4	-4.6	-4.5
–14 years	-3.5	-5.1	-0.6	-2.7	-4.2	-0.7	-2.4	-2.8	-2.2
5–24 years	-1.3	-2.8	2.8	-1.2	-2.5	2.4	-2.7	-4.6	3.6
5–34 years	-1.2	-1.0	-1.8	0.2	0.4	-0.2	-5.3	-4.8	-6.2
5–44 years	-0.2	-0.7	0.7	0.0	-0.5	1.1	-1.5	-2.0	-0.8
5–54 years	0.9	0.7	1.1	1.1	0.9	1.3	-0.1	-0.1	-0.2
5–64 years	-0.9	-1.3	-0.2	-0.8	-1.3	-0.2	-1.2	-1.1	-1.3
5–74 years	-0.4	-1.1	0.3	-0.6	-1.3	0.2	0.2	-0.1	0.3
5–84 years	0.8	-0.3	1.7	0.8	-0.3	1.6	2.0	0.5	3.2
35 years and over	2.4	1.0	3.0	2.4	0.9	3.0	4.5	3.3	5.0

¹Includes races other than white and black.

Death rates by age and sex

Between 1998 and 1999 age-specific death rates for the total population increased for age groups 45–54 years, 75–84 years, and 85 years and over but decreased for age groups under 1 year (see also Infant mortality), 5–14 years, 55–64 years, and 65–74 years (table A and figure 2). The largest decrease occurred for age group 5–14 years (3.5 percent), and the largest increase for the age group 85 years and over (2.4 percent).

The death rate for males declined between 1998 and 1999 for age groups 5–14 years, 15–24 years, 55–64 years, and 65–74 years, but increased for age group 85 years and over (table A). The largest decrease for males was for those aged 5–14 (5.1 percent), while the increase among 85 years and over was 1.0 percent. For females the death rate decreased (3.4 percent) for infants under 1 year but increased for age groups 75–84 years and 85 years and over. The largest increase for females was for those aged 85 years and over (3.0 percent).

Table B. Percent change in death rates and age-adjusted death rates between 1998 and 1999 by age, Hispanic origin, race for non-Hispanic population, and sex: United States

[Age-adjusted death rates based on year 2000 U.S. standard population. 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]

		All origin	s ¹		Hispani	С	N	on-Hispa	nic ²	Whi	te non-Hi	spanic	Blac	k non-Hi	spanic
Age	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both	Male	Female	Both sexes	Male	Female
							Pe	ercent cha	ange						
All ages:	4.4	0.0	0.0	1.0	0.4	0.0	4.7	0.0	0.4	1.0	1.0	0.5	4.0	0.4	0.0
Crude	1.4	0.6	2.2	1.8	0.4	3.6	1.7	0.9	2.4	1.8	1.0	2.5	1.3	0.4	2.2
Age adjusted	0.7	-0.3	1.5	8.0	-1.0	2.5	8.0	-0.2	1.6	8.0	-0.2	1.5	1.2	0.2	2.0
Under 1 year ³	-2.6	-2.0	-3.4	-2.1	-3.4	-0.5	-2.5	-1.7	-3.6	-4.5	-2.3	-7.2	0.3	-0.9	1.8
1–4 years	0.3	2.4	-1.9	5.6	3.6	8.0	-0.6	2.3	-4.0	1.0	3.5	-3.0	-4.5	-3.6	-5.5
5–14 years	-3.5	-5.1	-0.6	-1.7	-4.0	2.1	-3.4	-5.0	-0.6	-2.8	-4.3	-0.7	-2.6	-3.5	-1.7
15–24 years	-1.3	-2.8	2.8	-1.1	-3.0	7.1	-1.3	-2.6	2.2	-1.2	-2.5	1.7	-2.1	-3.9	3.5
25–34 years	-1.2	-1.0	-1.8	1.7	2.2	1.6	-1.5	-1.4	-1.9	0.0	0.2	-0.2	-5.3	-4.9	-6.3
35–44 years	-0.2	-0.7	0.7	0.7	-0.3	3.3	-0.2	-0.8	0.7	-0.1	-0.7	0.9	-1.3	-1.9	-0.5
45–54 years	0.9	0.7	1.1	1.2	1.6	0.4	0.9	0.7	1.3	1.1	0.9	1.4	-0.0	-0.1	-0.0
55–64 years	-0.9	-1.3	-0.2	-0.8	-0.4	-1.4	-0.8	-1.3	-0.1	-0.8	-1.3	-0.0	-1.1	-1.0	-1.1
65–74 years	-0.4	-1.1	0.3	-2.2	-2.9	-1.3	-0.2	-0.9	0.5	-0.4	-1.1	0.4	0.4	0.1	0.6
75–84 years	0.8	-0.3	1.7	1.4	-0.9	3.4	0.9	-0.2	1.8	0.8	-0.2	1.6	2.3	0.7	3.5
85 years and over	2.4	1.0	3.0	3.4	-1.0	6.0	2.5	1.1	3.1	2.4	1.0	3.0	4.6	3.2	5.2

¹All origins includes origin not stated; specified origins exclude origin not stated.

²Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births).

²Includes races other than white and black.

³Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births).

Table C. Percent of total deaths, death rates, age-adjusted death rates for 1999, percent change in age-adjusted death rates from 1998 to 1999 and ratio of age-adjusted death rates by race and sex for the 15 leading causes of death for the total population in 1999: United States

[Death rates on an annual basis per 100,000 population; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes]

						Age	e-adjusted	death rat	ie .
				1999		Percen	change ²		Ratio
Rank ¹	Cause of death (Based on the Tenth Revision International Classification of Diseases, 1992)	Number	Percent of total deaths	crude death rate	1999	1998 to 1999	Male to female	Black to white	Hispanic to white non-Hispanic
	All causes	2,391,399	100.0	877.0	881.9	0.7	1.4	1.3	0.7
1	Diseases of heart	725,192	30.3	265.9	267.8	-0.3	1.5	1.3	0.7
2	Malignant neoplasms	549,838	23.0	201.6	202.7	-0.5	1.5	1.3	0.6
3	Cerebrovascular diseases	167,366	7.0	61.4	61.8	-1.9	1.0	1.4	0.7
4	Chronic lower respiratory diseases	124,181	5.2	45.5	45.8	4.1	1.5	0.7	0.4
5	Accidents (unintentional injuries)	97,860	4.1	35.9	35.9	-0.6	2.2	1.1	0.9
6	Diabetes mellitus	68,399	2.9	25.1	25.2	3.3	1.2	2.2	1.5
7	Influenza and pneumonia	63,730	2.7	23.4	23.6	-2.5	1.3	1.1	0.7
8	Alzheimer's disease	44,536	1.9	16.3	16.5	³ 23.1	0.8	0.7	0.4
9	Nephritis, nephrotic syndrome and nephrosisN00-N07,N17-N19,N25-N27	35,525	1.5	13.0	13.1	³ 8.3	1.4	2.5	0.9
10	Septicemia	30,680	1.3	11.3	11.3	6.6	1.2	2.5	8.0
11	Intentional self-harm (suicide)	29,199	1.2	10.7	10.7	-5.3	4.4	0.5	0.5
12	Chronic liver disease and cirrhosis	26,259	1.1	9.6	9.7	-1.0	2.2	1.1	1.7
13	Essential (primary) hypertension and hypertensive renal disease I10,I12	16,968	0.7	6.2	6.3	5.0	1.0	3.0	1.0
14	Assault (homicide)	16,889	0.7	6.2	6.2	-4.6	3.2	5.4	2.9
15	Aortic aneurysm and dissection	15,807	0.7	5.8	5.8	-4.9	2.3	8.0	0.4
	All other causes	378,970	15.8	139.0					

⁻ Quantity zero.

Race—Among white males age-specific death rates were lower in 1999 than in 1998 for age groups 15–24 years, 55–64 years, 65–74 years, but increased for age 85 years and over (0.9 percent). The largest decrease was for age group 15–24 years (2.5 percent). For black males the death rate declined for age groups 15–24 years and 25–34 years, but increased 3.3 percent for those aged 85 years and over. The largest decrease was for those aged 25–34 (4.8 percent). For white females the rate decreased for under 1 year (5.5 percent) and increased for the age groups 75–84 years (1.6 percent) and 85 years and over (3.0 percent). The rate for black females decreased for age 25–34 years (6.2 percent) while the rate increased for those aged 85 years and over (5.0 percent).

Hispanic origin—Between 1998 and 1999 (table B) the age-specific death rate declined for age group 65–74 years (2.2 percent) and increased for age group 85 years and over (3.4 percent). Among Hispanic males age-specific death rates decreased for age group 65–74 years (2.9 percent). For Hispanic females the death rate increased for age groups 75–84 and 85 years and over, 3.4 and 6.0 percent, respectively.

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 infants were to experience throughout life the age-specific death rates present at birth. The life table methodology used to calculate the life expectancies shown in this report was revised beginning with the 1997 data year (see

Technical notes). The new methodology provides values similar to the method used prior to 1997 but is more comparable to decennial life table methods, provides more accurate estimates, and provides more age detail. In 1999 life expectancy at birth remained at the record high of 76.7 years (tables 5–7), the same as in 1998. The stability in life expectancy between 1998 and 1999 follows five consecutive years of improvement and a general upward trend in U.S. life expectancy observed throughout the 20th century.

In 1999 life expectancy for females was 79.4 years, a 0.1-year decrease from 1998, while for males it was 73.9 years, a 0.1-year increase. From 1900 to the late 1970's, the sex gap in life expectancy widened from 2.0 years to 7.8 years. Since the peak in the 1970's, this gap has been narrowing. The difference in life expectancy between the sexes declined from 5.7 years in 1998 to 5.5 years in 1999.

Between 1998 and 1999 life expectancy increased 0.1 year for the black population to a record high of 71.4 years. Life expectancy did not change for the white population. The difference in life expectancy between the white and black populations was 5.9 years, 0.1 year less than in 1998. The white-black difference in life expectancy was the smallest in 1982 at 5.7 years, but by 1989 had widened to 7.1 years. Since then the gap has gradually narrowed.

Among the four race-sex groups (figure 3), white females continued to have the highest life expectancy at birth (79.9 years), followed by black females (74.7 years), white males (74.6 years), and black males (67.8 years). Record high life expectancies were reached for white and black males. Life expectancy for black males declined every year from 1984 to 1989 then resumed the long-term trend of increase from 1990 to 1992 and 1994 to 1999 (table 7). For white females life

^{...} Category not applicable.

¹Rank based on number of deaths; see Technical notes.

²Percent change is based on a comparison of the 1999 age-adjusted death rate with the 1998 comparability-modified, age-adjusted death rate. See Technical notes.

³Percent change is not reliable because of problems in measuring comparability, see Technical notes.

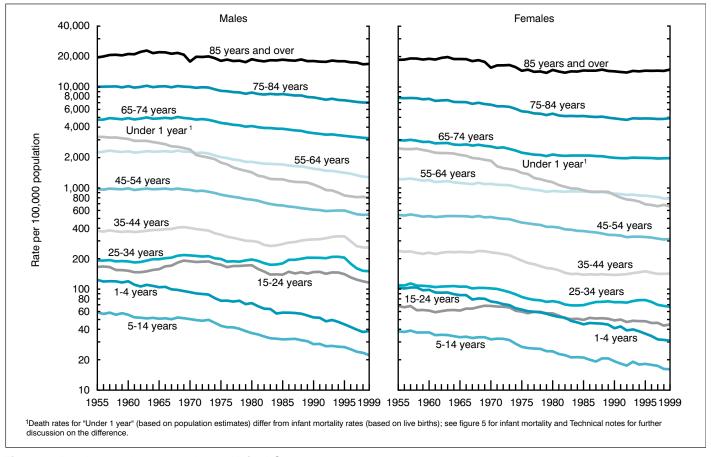


Figure 2. Death rates by age and sex: United States, 1955-99

expectancy increased most years from 1970 to 1998, when it reached a record high of 80.0 years. In 1999 life expectancy for white females fell below this high by 0.1 year. Between 1988 and 1992 and between 1995 and 1998, life expectancy for black females increased. In 1999 life expectancy for black females declined as it did for white females by 0.1 year. Between 1998 and 1999 the largest gain was for black males (0.2 years), followed by white males (0.1).

Life tables shown in this report may be used to compare life expectancies at selected ages from birth to 100 years. For example, a person who has reached 65 years may look forward to living to an older age, on the average, than one who has reached 50 years. On the basis of mortality experienced in 1999, a person aged 50 years could expect to live an average of 29.8 more years for a total of 79.8 years, a person aged 65 years could expect to live an average of 17.7 more years for a total of 82.7 years, and a person aged 85 years could expect to live an average of 6.3 more years for a total of 91.3 years (tables 5 and 6).

Leading causes of death

The 15 leading causes of death in 1999 accounted for 84.2 percent of all deaths in the United States (table C). (Causes of death are ranked according to number of deaths. For ranking procedures, see Technical notes.) In order, the 15 leading causes in 1999 were 1) heart disease, 2) cancer, 3) stroke, 4) chronic respiratory disease, 5) unintentional injuries, 6) diabetes, 7) influenza and pneumonia, 8)

Alzheimer's disease, 9) kidney disease, 10) septicemia, 11) suicide, 12) chronic liver disease, 13) hypertension, 14) homicide, and 15) aortic aneurysm.

The introduction of ICD–10 affects ranking of leading causes of death. In 1999, 14 of the 15 causes remained among the leading causes (see section on Tabulation lists and cause-of-death ranking in Technical notes) as published in 1998 using ICD–9 (10), but the ranking changed as follows: diabetes increased in rank from 7th to 6th; influenza and pneumonia dropped from 6th to 7th; Alzheimer's disease rose from 12th to 8th; suicide dropped from 8th to 11th; septicemia rose from 11th to 10th; chronic liver disease dropped from 10th to 12th; hypertension rose from 15th to 13th; and homicide dropped from 13th to 14th. Atherosclerosis had been on the leading cause list for at least four decades before falling from among the 15 leading causes in 1999. New among the 15 leading causes in 1999 was aortic aneurysm as the 15th leading cause.

Two factors explain the changes in rank order between 1998 and 1999. First, introduction of a new cause-of-death classification, and second, differences in mortality levels between 1998 and 1999. The changes in the classification of diseases and the coding rules for selecting the underlying cause of death between ICD–9 and ICD–10 (see section on Tabulation lists and cause-of-death ranking in Technical notes) had substantial impact. This impact is evident in comparing 1998 counts with 1998 comparability-modified counts (data not shown). ICD–10 did not affect the ranking of the first five leading causes of death (9) but affected the ranking for diabetes, influenza and pneumonia,

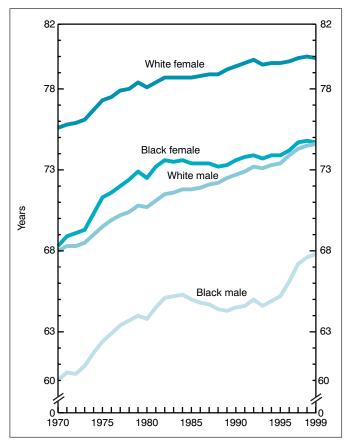


Figure 3. Life expectancy by sex: United States, 1970-99

Alzheimer's disease, suicide, and chronic liver disease. Changes in the tabulation list used to rank causes explain the entry of aortic aneurysm among the leading causes of death.

The differences in mortality levels between 1998 and 1999 also influenced changes in ranking. This influence can be determined by comparing 1999 counts with 1998 comparability-modified counts (data not shown). The first nine leading causes of death in 1999 were the same as in comparability-modified 1998 data. Suicide dropped in rank from 10th to 11th; septicemia increased from 11th to 10th; homicide dropped from 13th to 14th; aortic aneurysm dropped from 14th to 15th; and hypertension rose from 15th to 13th.

Because the age pattern of mortality can vary greatly by cause of death, changes in crude death rates over time can be greatly influenced by the changing composition of the population. In contrast, age-adjusted death rates eliminate the influence of such shifts in the population age structure. Therefore, age-adjusted death rates are better indicators than crude rates for showing changes in mortality risk over time and among causes of death. Consequently, age-adjusted rates are used to depict trends for causes of death (figure 4).

Overall, mortality between 1998 and 1999 increased only slightly in the United States. This reflected offsetting influences of increases for a number of leading causes of death, almost entirely compensated for by decreases in other causes of death.

Among the leading causes of death, age-adjusted death rates for six of the 15 leading causes decreased from 1998 to 1999 (table C). The rate for cancer, the second leading cause of death, declined by 0.5 percent from the comparability-modified rate of 201.7 in 1998. Cancer mortality has shown a gradual but consistently downward trend

since 1993. The rate for stroke, the third leading cause of death, declined by 1.9 percent between 1998 and 1999. Stroke generally declined between 1950 and 1992, increased 2.9 percent between 1992 and 1995, and has declined since 1995. Influenza and pneumonia, the seventh leading cause, decreased 2.5 percent from 1997, also a year in which influenza outbreaks occurred (10); however, influenza outbreaks in 1999 (11–13) had important impacts upon certain groups such as black females. Suicide, the 11th leading cause of death, decreased for the 6th consecutive year, declining 5.3 percent between 1998 and 1999. Homicide, the 14th leading cause, continued a generally downward trend observed since 1991, declining 4.6 percent between 1998 and 1999. This follows a 31.6 percent decline from 1992 to 1998; between 1987 and 1991 homicide mortality rose 22 percent. Aortic aneurysm, the 15th leading cause of death, decreased by 4.9 percent; this condition had generally been increasing.

Age-adjusted death rates increased for 5 of the 15 leading causes from 1998 to 1999. The fourth leading cause, Chronic respiratory disease, increased 4.1 percent. Chronic respiratory disease has shown a continuous increasing trend since 1995. The sixth leading cause, diabetes, increased 3.3 percent. Between 1986 and 1998 diabetes mortality increased. An anomalous 14-percent increase in the ageadjusted rate for diabetes during 1988-89 has been attributed in part to the 1989 revision of the death certificate (17). Kidney disease, the ninth leading cause, increased 8.3 percent; however, this increase is believed to be overstated (see section on Selected causes of death with problems of interpretation in Technical notes). Kidney disease increased since 1994. The 10th leading cause, septicemia, has generally increased since 1994, and increased 6.6 percent between 1998 and 1999. Hypertension, the 13th leading cause, increased 5.0 percent between 1998 and 1999, continuing a generally increasing trend since 1984.

Age-adjusted death rates for three leading causes of death, heart disease (the leading cause), unintentional injuries (5th), and chronic liver disease (12th) did not change significantly between 1998 and 1999. The large increase (23.1 percent) for Alzheimer's disease, the eighth leading cause of death, between 1998 and 1999 may be spurious. The estimated increase would be eliminated if the comparability ratio is understated as it is believed to be (see section on Selected causes of death with problems of interpretation in Technical notes).

Even though mortality from Human immunodeficiency virus disease (HIV disease) has not been on the list of 15 leading causes of death since 1997 (18), it is still considered a major public health problem. In 1999 a total of 14,802 persons died from HIV disease. The age-adjusted death rate declined for the fourth consecutive year, decreasing 3.6 percent from 1998 to 1999. The rate of decline in mortality from this cause slowed considerably.

Changes in mortality levels by age and cause influence life expectancy. Life expectancy at birth remained unchanged between 1998 and 1999 (76.7 years) because the decreases in mortality from cancer, heart disease, stroke, suicide, and homicide were completely offset by increases in mortality from chronic respiratory disease, diabetes, septicemia, and hypertension. (For discussion of contribution to the change in life expectancy, see Technical notes.) For males life expectancy improved from 73.8 years in 1998 to 73.9 years in 1999 primarily because of decreases in mortality from heart disease, cancer, stroke, suicide, and homicide, despite increases in mortality from chronic respiratory disease, septicemia, and diabetes. For females life

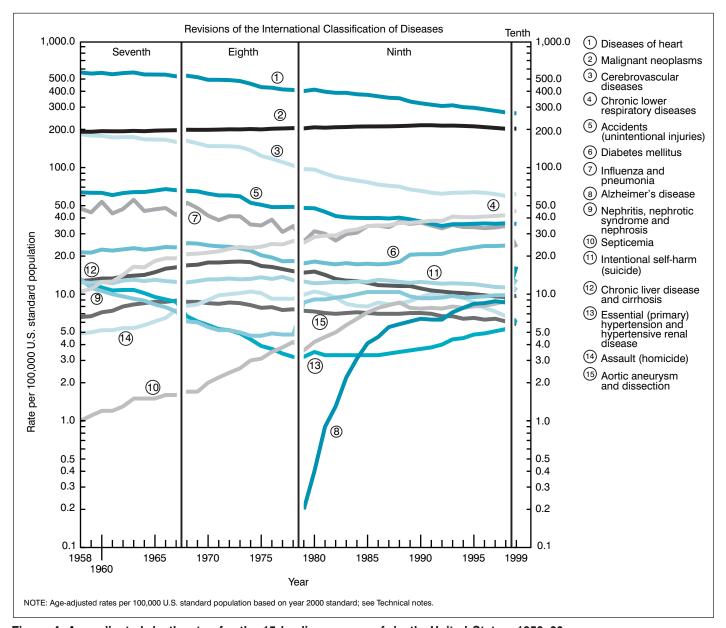


Figure 4. Age-adjusted death rates for the 15 leading causes of death: United States, 1958–99

expectancy decreased by 0.1 years between 1998 and 1999 due to increasing mortality from chronic respiratory disease, diabetes, septicemia, and hypertension; but improvements were made for stroke, cancer, suicide, and homicide.

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 leading causes of death (table C), with 8 rates for males at least 1.5 times those for females. The largest ratio (4.4) was for suicide. Other large ratios were homicide (3.2), aortic aneurysm (2.3), accidents (2.2), chronic liver disease (2.2), heart disease (1.5), cancer (1.5), and chronic respiratory disease (1.5).

The gap in life expectancy between males and females narrowed from 5.7 years in 1998 to 5.5 years in 1999. This narrowing was due to greater improvements in mortality for males for heart disease, cancer, suicide, and homicide.

Rates for the black population compared with the white population were at least 1.5 times greater for five of the leading causes of death

(table C). The largest ratio was for homicide (5.4). Other causes for which the ratio was large include hypertension (3.0), septicemia (2.5), kidney disease (2.5), and diabetes (2.2). For four of the leading causes, age-adjusted rates were lower for the black than the white population: the smallest was for suicide (0.5).

The gap in life expectancy between blacks and whites narrowed from 6.0 years in 1998 to 5.9 years in 1999. This narrowing was due to greater improvements in mortality for blacks for homicide, cancer, stroke and HIV disease.

Rates for the Hispanic population were greater than the non-Hispanic white population for three causes: homicide (2.9), chronic liver disease (1.7), and diabetes (1.5). For eight of the leading causes, age-adjusted rates for the Hispanic population were 0.7 times that for the non-Hispanic white population or less. The smallest ratios were for chronic respiratory disease, aortic aneurysm, and Alzheimer's disease (0.4). Other causes for which the ratio was small include suicide (0.5), cancer (0.6), and heart disease, stroke, and influenza and pneumonia (0.7).

Leading causes of death for the total population and for specific subpopulations are examined in a separate report on leading causes by age, race, ethnicity, and sex (3).

Firearm mortality

In 1999 a total of 28,874 persons died from firearm injuries in the United States (tables 17 and 19). This number was 5.7 percent lower than the comparability-modified 30,625 deaths in 1998. Firearm suicide and homicide, the two major component causes, accounted for 57.5 and 37.5 percent, respectively, of all firearm injury deaths in 1999. The other components-firearm accidents, firearm injuries of undetermined intent, and legal intervention involving firearms—account for 2.9, 1.1, and 1.0 percent, respectively. Among those aged 19 years and under, the number of firearm deaths was 10.7 percent lower than in 1998. Despite the decrease, in 1999 children under 20 years accounted for 11.7 percent of all firearm deaths.

Of the firearm injury deaths in 1999, 62.1 percent were white males, 21.4 percent were black males, 11.1 percent were white females, and 2.9 percent were black females. The largest number of firearm deaths for males were for the age group 20-24 years; the largest number of firearm deaths for females were for the age group 35-39 years. Although the number of firearm deaths was highest for white males, age-adjusted death rates for firearm injuries were greatest for black males, followed by white males, black females, and white females. Over the age of 50, age-specific death rates for firearm injury with the exception of age group 55-59 years were highest for white males (table 18).

Between 1998 and 1999 age-specific death rates for firearm injuries declined for all age groups. The largest decline in firearm mortality between 1998 and 1999 was 26.1 percent for the age group 10-14 years.

In 1999 the age-adjusted death rate for firearm injuries was 10.6 deaths per 100,000 U.S. standard population, 6.2 percent lower than the rate of 11.3 in 1998. The rate decreased by 6.5 percent for black males, 6.3 percent for white males, and 6.7 for white females. The change for black females was not statistically significant. In 1999 the rate for males was 6.3 times that for females, and the rate for the black population was 2.0 that of the white population.

The age-adjusted death rate decreased 9.3 percent for firearm homicide, 6.2 percent for firearm suicide, and remained the same for firearm accidents between 1998 and 1999. In 1999 age-specific death rates for firearm homicide were highest for the age group 20-24 years. Black males aged 20-24 years had the highest rate at 100.8 per 100,000 population. The highest rate for suicide by firearms was 43.5 for white males 85 years and over.

Drug-induced mortality

In 1999 a total of 19,102 persons died of drug-induced causes in the United States (table 20). The category "drug-induced causes" includes not only deaths from dependent and nondependent use of drugs (legal and illegal use), but also poisoning from medically prescribed and other drugs. It excludes accidents, homicides, and other causes indirectly related to drug use. Also excluded are newborn deaths due to mother's drug use. (For drug-induced causes, see Technical notes.) Between 1998 and 1999 the age-adjusted death rate for drug-induced causes decreased 6.7 percent from the

comparability-modified 7.5 deaths per 100,000 U.S. standard population to 7.0. In 1999 the rate for males was 2.2 times that of females, and the rate for the black population was 1.4 times that of the white population.

Alcohol-induced mortality

In 1999 a total of 19,171 persons died of alcohol-induced causes in the United States (table 21). The category "alcohol-induced causes" includes not only deaths from dependent and nondependent use of alcohol but also accidental poisoning by alcohol. It excludes accidents, homicides, and other causes indirectly related to alcohol use as well as deaths due to fetal alcohol syndrome. (For alcohol-induced causes, see Technical notes.) The age-adjusted death rate for alcohol-induced causes remained unchanged at 7.1 deaths per 100,000 U.S. standard population between 1998 (comparability-modified data) and 1999. In 1999 the rate for males was 3.6 times the rate for females, and the rate for the black population was 1.4 times that of the white population.

Marital status

Among those aged 15 years and over, the number of deaths in 1999 of persons who were married was 947,981; widowed, 913,912; never married, 234,167; and divorced, 244,739 (table 22) (see Technical notes). For the total population, but not for males and females separately, those never married had the highest age-adjusted death rate, followed by divorced, widowed, and married persons, respectively. The never-married group had an age-adjusted death rate 67 percent higher than the ever married and 2.2 times the rate for the currently married. Rates for widowed and divorced persons were 81 percent and 86 percent higher, respectively, than for those who were currently married at the time of death.

For all age groups 15 years and over, death rates for married persons were much lower than those for never-married persons. For ages 25–34 years, widowed persons had the highest death rates; but beginning at age 35, those who never married had the highest death rates.

For each marital status group, males had higher age-adjusted death rates than females, ranging from 43 percent greater among the never married to 83 percent greater among the currently married in 1999. Married and widowed black persons had significantly higher age-adjusted death rates than white persons, with rates 42 percent and 14 percent higher, respectively. Differences between black and white never married and divorced persons were not statistically significant.

Educational attainment

Age-specific and age-adjusted death rates are shown by educational attainment for age groups in the range 25-64 years (table 23). In 46 reporting States and the District of Columbia, a total of 213,929 decedents aged 25-64 years completed 12 years of education, compared with 149,346 who completed 13 years or more and 111,037 who completed less than 12 years. For the total population, and for males and females separately, mortality is inversely associated with educational attainment; that is, the average risk of death decreases markedly with increasing educational attainment. The age-adjusted death rate for those with less than 12 years of education was 585.3 per 100,000 U.S. standard population-23.3

percent higher than the rate of 474.5 for those with 12 years of education and 2.7 times the rate for those with 13 years of education or more. Rates are shown only for ages 25-64 years because persons under age 25 may not have completed their education. Rates are not shown for the older ages because of misreporting of educational attainment on the death certificate (see Technical notes). Data on educational attainment must be interpreted with caution because of misreporting on the death certificate and biases that result from differences between the classification of educational attainment on the death certificate and in census surveys (see Technical notes).

Injury at work

For persons aged 15 years and over, a total of 5,651 deaths were reported on death certificates due to injuries at work (table 24). Rates were lowest for age groups 15-24 years and 65 years and over. The risk of work-related death was much greater for males than for females; the age-adjusted death rate for males was 5.0 deaths per 100,000 U.S. standard population compared with 0.4 for females, resulting in a mortality ratio of 12.5. The age-adjusted rate for the white population (2.7) was 3.8 percent higher than the rate for the black population (2.6). The male-to-female ratios for the white and black populations were 12.5 and 10.4, respectively.

In 1998 and 1999 the age-adjusted death rate for injury at work was 2.6 deaths per 100,000 U.S. standard population (tables 24 and 25). The rate increased by 2.0 percent for males and decreased by 20 percent for females. However, these changes were not statistically significant. Between 1998 and 1999 the age-adjusted death rate for injury-at-work remained at 2.7 percent for the white population. The 8.3-percent increase for the black population was not statistically significant.

State of residence

Mortality varies considerably by State (table 26). The State with the highest mortality was Mississippi with a rate 21 percent above the national average and the State with the lowest rate was Hawaii with a rate 23 percent below the national average. The rate for the District of Columbia was 1,082 deaths per 100,000 standard population, 23 percent above the national average; however, the District of

Columbia, as a city, is not comparable with the States. Variations in mortality by State are associated with differences in socioeconomic status, race, and ethnic composition as well as differences in risk for specific causes of death (19). Geographic variation will be examined in more detail in a separate report (4).

Infant mortality

In 1999 a total of 27,937 deaths occurred in children under 1 year (table D), 434 fewer than in 1998. The infant mortality rate of 7.1 infant deaths per 1,000 live births, although the lowest rate ever recorded for the United States, was not statistically different from the rate in 1998 (figure 5 and table 27). In contrast, the decrease in the infant death rate mentioned under Death rates by age and sex was statistically significant (for a discussion of the differences between infant death rates and infant mortality rates, see Infant mortality in Technical notes). The mortality rate for white infants decreased to 5.8 in 1999, whereas the rate for black infants was not statistically different from 1998 (14.3 in 1998 and 14.6 in 1999). Race cited on the death certificate is considered relatively accurate for white and black infants (14). However, for other race groups race may be misreported on the death certificate; consequently, infant mortality by race for these population groups is better measured using data from the linked file of live births and infant deaths (20).

The ratio of the black-to-white infant mortality rates was 2.5 in 1999 compared with 2.4 in 1998. During 1960–71 infant mortality rates converged as a result of the rates declining more for the black than the white population (31.6 and 25.3 percent, respectively). From 1971 to 1990 rates diverged as rates for the black population declined less than for the white population (43.9 and 55.0 percent, respectively). Since 1990 rates for the white population declined 23.7 percent and for the black population by 18.9 percent.

Between 1998 and 1999 the neonatal mortality rate (deaths to infants age 0-27 days per 1,000 live births) decreased for all races (4.7) and for white neonates (3.9) (table 27). For black neonates the rate (9.8) did not change significantly from 1998. The postneonatal mortality rate (deaths to infants age 28 days-1 year per 1,000 live births) declined for all races combined and for white postneonates, but the rate for black postneonates (4.8) did not change from 1998.

The 10 leading causes of infant death in 1999 accounted for 67.6 percent of all infant deaths in the United States (table E). In order,

Table D. Number of infant, neonatal, and postneonatal deaths and mortality rates, by race and sex: United States, 1999 [Rates are infant (under 1 year), neonatal (under 28 days), and postneonatal (28 days-11 months) deaths per 100,000 live births in specified group. For infant mortality rates by Hispanic origin or by detailed race, refer to data from the linked file of live births and infant deaths; see Technical notes]

	Infa	ant	Neor	natal	Postneo	onatal
Race and sex	Number	Rate	Number	Rate	Number	Rate
Il races ¹	27,937	705.6	18,728	473.0	9,209	232.6
Male	15,646	771.9	10,355	510.9	5,291	261.0
Female	12,291	636.0	8,373	433.3	3,918	202.7
/hite	18,067	576.8	12,164	388.3	5,903	188.4
Male	10,197	635.1	6,734	419.4	3,463	215.7
Female	7,870	515.4	5,430	355.6	2,440	159.8
lack	8,822	1,455.8	5,920	976.9	2,902	478.9
Male	4,897	1,591.6	3,297	1,071.6	1,600	520.0
Female	3,925	1,315.8	2,623	879.3	1,302	436.5

¹Includes races other than white and black

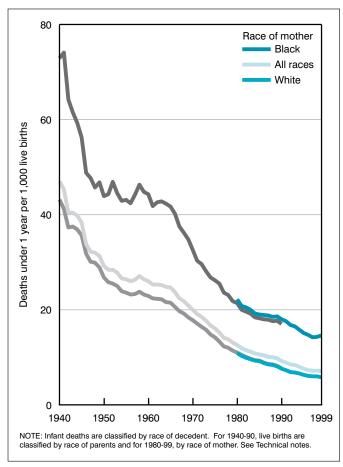


Figure 5. Infant mortality rates by race: United States, 1940–99

the 10 leading causes were: 1) congenital malformations, 2) low birth weight, 3) SIDS, 4) maternal complications, 5) RDS, 6) cord and placental complications, 7) unintentional injuries, 8) bacterial sepsis, 9) circulatory diseases, and 10) atelectasis.

Introduction of ICD-10 affects ranking of leading causes of infant death. Seven of the 10 causes from 1998 (10) remained among the leading causes in 1999. The rankings did not change for the first six leading causes of death while unintentional injuries rose from eighth to seventh leading cause. The remaining three causes (bacterial sepsis, circulatory diseases, and atelectasis) are new entries.

Changes in rank order between 1998 and 1999 reflect the transition from ICD-9 to ICD-10 and differences in mortality levels between 1998 and 1999. Comparing the number of deaths in 1998 with the comparability-modified 1998 deaths (data not shown) reveals the effect of the changes in the cause-of-death classification (see section on Tabulation lists and cause-of-death ranking in Technical notes). The entry of bacterial sepsis, circulatory diseases, and atelectasis among the leading causes all reflect changes in the list used to rank order causes under the new classification (ICD-10) (see section on Cause of death classification in Technical notes). ICD-10 also affects the ranking of cord and placental complications and unintentional injuries.

Differences in mortality levels between 1998 and 1999 also influenced the ranking. This influence is evident in the comparison of 1999 counts with 1998 comparability-modified counts (data not shown). The first 7 and 10th leading causes of death in 1999 are the same as in comparability-modified 1998 data. Circulatory disease dropped in rank from eighth to ninth and bacterial sepsis rose from ninth to eighth.

No change in rates by cause of death among the 10 leading causes was statistically significant. Changes in mortality for atelectasis are not believed to be reliable (see section on Selected causes of death with problems of interpretation).

Hispanic infant mortality—The infant mortality rate was 5.8 deaths to Hispanic infants and non-Hispanic white infants under 1 year of age per 1,000 live births in the United States (data not shown). Infant

Table E. Number of infant deaths, percent of total infant deaths, and infant mortality rates for 1999, and percent change in infant mortality rates from 1998 to 1999 for the 10 leading causes of infant death in 1999: United States

[Rates are infant deaths per 100,000 live births; see Technical notes]

Rank order ¹	Cause of death (Based on the Tenth Revision International Classification of Diseases, 1992)	Number	Percent of total deaths	Rate	Percent change ² from 1998 to 1999
	All causes	27,937	100.0	705.6	-2.0
1	Congenital malformations, deformations and chromosomal abnormalities Q00–Q99	5,473	19.6	138.2	-3.2
2	Disorders relating to short gestation and low birthweight, not elsewhere classified P07	4,392	15.7	110.9	-3.5
3	Sudden infant death syndrome	2,648	9.5	66.9	³ –9.9
4	Newborn affected by maternal complications of pregnancy P01	1,399	5.0	35.3	0.7
5	Respiratory distress syndrome	1,110	4.0	28.0	-16.8
6	Newborn affected by complications of placenta, cord, and membranes P02	1,025	3.7	25.9	1.5
7	Accidents (unintentional injuries)	845	3.0	21.3	13.5
8	Bacterial sepsis of newborn	691	2.5	17.5	2.1
9	Diseases of the circulatory system	667	2.4	16.8	-6.4
10	Atelectasis	647	2.3	16.3	³ 45.9
	All other causes	9,040	32.4	228.3	

^{...} Category not applicable.

¹Rank based on number of deaths: see Technical notes.

Percent change is based on a comparison of the 1999 infant mortality rate with the 1998 comparability-modified infant mortality rate. See Technical notes.

mortality rates by specified Hispanic origin and race for non-Hispanic origin are somewhat understated and are better measured using data from the linked file of live births and infant deaths (14, 20) (see Technical notes).

Maternal mortality

In 1999 a total of 391 women were reported to have died of maternal causes (table 30). The number of maternal deaths is highly variable from one year to the next, but the change in the number of maternal deaths between 1998 and 1999 also reflects the consequences of implementing ICD-10, which assigned to maternal deaths those deaths aggravated by pregnancy, previously assigned to other conditions (see section on Maternal mortality in Technical notes). The break in comparability for maternal mortality has not been quantified yet. As in previous years, the number of maternal deaths does not include all deaths occurring to pregnant women, but only to those deaths reported on the death certificate and assigned to those causes related to or aggravated by pregnancy or pregnancy management (ICD-10 codes O00-O95, O98-O99, and A34). Further, the number excludes deaths occurring more than 42 days after the termination of pregnancy and deaths of pregnant women due to external causes (unintentional injuries, homicides, and suicides) (6).

The maternal mortality rate for 1999 was 9.9 deaths per 100,000 live births. Black women have a substantially higher risk of maternal death than white women. In 1999 the maternal mortality rate for black women was 25.4, 3.7 times the rate of 6.8 for white women.

New categories are provided in ICD-10 (6) to capture deaths related to or aggravated by pregnancy or pregnancy management, but which occur more than 42 days after the termination of pregnancy. In 1999 a total of 15 deaths were reported with 5 late maternal deaths occurring more than 42 days but less than 1 year after delivery and 10 deaths occurring more than a year after delivery from obstetric complications of pregnancy, labor, and puerperium, or from interventions and treatment.

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Table 1. Number of deaths, death rates, and age-adjusted death rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1980-1999

[Crude rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; 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. 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]

		All races ¹			White			Black		Ame	erican Indian	12	Asian or	r Pacific Islaı	nder ³
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
								Number							
999	_/11_/11		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	15,34
998			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	14,32
997			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	13,69
996 995	_''		1,151,121 1,139,173	1,992,966 1,987,437	991,984 997,277	1,000,982 990,160	282,089 286,401	149,472 154,175	132,617 132,226	10,127 9,997	5,563 5,574	4,564 4,423	29,508 28,297	16,550 15,933	12,95 12,36
994	_''		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	11,69
993			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	10,85
992	0.1==.01		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	10,09
991			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	9,44
990	2,148,46		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	8,91
989			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	8,35
988			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	7,80
987			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	7,19
986			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	6,71
985			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	6,44
984 983			962,855 947,278	1,781,897 1,765,582	934,529 931,779	847,368 833,803	235,884 233,124	129,147 127,911	106,737 105,213	6,949 6,839	4,117 4,064	2,832 2,775	14,483 13,554	8,627 8,126	5,85 5,42
983 982			947,276	1,705,562	919,239	809,846	226,513	125,610	100,213	6,679	3,974	2,775	12,430	7,564	4,86
981	1 0 00		914,209	1,731,233	925,490	805,743	228,560	127,296	101,264	6,608	4,016	2,703	11,475	6,908	4,56
980			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	4,26
	1,921,03		842,553	1,682,096	942,437	739,659	225,647	127,540	98,107	5,675	3.391	2.284			-,
960	.''		736,334	1,505,335	860,857	644,478	196,010	107,701	88,309	4,528	2,658	1,870			-
950	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			-
940	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			
								Rate							
999			872.2	917.7	911.2	924.1	817.7	880.0	761.3	471.8	513.3	431.2	311.2	352.7	272.
998	864.	7 876.4	853.5	904.0	904.4	903.7	808.7	877.7	746.4	459.5	513.2	407.0	304.4	349.8	262.
997															
	864.	880.8	849.2	902.0	906.3	897.8	814.6	893.9	742.8	455.5	519.2	392.6	306.6	351.7	
996	864. 872.	7 880.8 5 896.4	849.2 849.7	906.9	918.1	896.2	842.0	939.9	753.5	442.6	489.8	396.0	302.8	350.7	257.
996 995		880.8 896.4 914.1	849.2 849.7 847.3	906.9 911.3	918.1 932.1	896.2 891.3	842.0 864.2	939.9 980.7	753.5 759.0	442.6 445.9	489.8 502.3	396.0 390.6	302.8 304.7	350.7 354.9	257. 257.
996 995 994	864. 872. 880. 875.	7 880.8 5 896.4 0 914.1 4 915.0	849.2 849.7 847.3 837.6	906.9 911.3 905.4	918.1 932.1 931.6	896.2 891.3 880.1	842.0 864.2 864.3	939.9 980.7 987.8	753.5 759.0 752.9	442.6 445.9 436.1	489.8 502.3 502.6	396.0 390.6 371.0	302.8 304.7 301.5	350.7 354.9 354.0	257. 257. 252.
996 995 994		7 880.8 5 896.4 0 914.1 4 915.0 923.5	849.2 849.7 847.3 837.6 838.6	906.9 911.3 905.4 908.5	918.1 932.1 931.6 938.8	896.2 891.3 880.1 879.4	842.0 864.2 864.3 876.8	939.9 980.7 987.8 1,006.3	753.5 759.0 752.9 760.1	442.6 445.9 436.1 440.0	489.8 502.3 502.6 503.9	396.0 390.6 371.0 377.3	302.8 304.7 301.5 293.9	350.7 354.9 354.0 346.6	257. 257. 252. 244.
996 995 994 993		880.8 896.4 914.1 915.0 923.5 901.6	849.2 849.7 847.3 837.6 838.6 806.5	906.9 911.3 905.4 908.5 880.0	918.1 932.1 931.6 938.8 917.2	896.2 891.3 880.1 879.4 844.3	842.0 864.2 864.3 876.8 850.5	939.9 980.7 987.8 1,006.3 977.5	753.5 759.0 752.9 760.1 736.2	442.6 445.9 436.1 440.0 417.7	489.8 502.3 502.6 503.9 487.7	396.0 390.6 371.0 377.3 348.9	302.8 304.7 301.5 293.9 283.1	350.7 354.9 354.0 346.6 332.7	257. 257. 252. 244. 235.
996 995 994 993 992		880.8 896.4 914.1 915.0 923.5 9 901.6 8 912.1	849.2 849.7 847.3 837.6 838.6	906.9 911.3 905.4 908.5 880.0 886.2	918.1 932.1 931.6 938.8 917.2 926.2	896.2 891.3 880.1 879.4 844.3 847.7	842.0 864.2 864.3 876.8	939.9 980.7 987.8 1,006.3 977.5 998.7	753.5 759.0 752.9 760.1	442.6 445.9 436.1 440.0 417.7 407.2	489.8 502.3 502.6 503.9	396.0 390.6 371.0 377.3	302.8 304.7 301.5 293.9 283.1 277.3	350.7 354.9 354.0 346.6 332.7 325.6	257. 257. 252. 244. 235. 231.
996 995 994 993 992 991	864. 872. 880. 875. 880. 852. 860. 863.	880.8 896.4 914.1 915.0 923.5 9 901.6 8 912.1 918.4	849.2 849.7 847.3 837.6 838.6 806.5 811.0	906.9 911.3 905.4 908.5 880.0	918.1 932.1 931.6 938.8 917.2	896.2 891.3 880.1 879.4 844.3	842.0 864.2 864.3 876.8 850.5 864.9	939.9 980.7 987.8 1,006.3 977.5	753.5 759.0 752.9 760.1 736.2 744.5	442.6 445.9 436.1 440.0 417.7	489.8 502.3 502.6 503.9 487.7 471.2	396.0 390.6 371.0 377.3 348.9 343.9	302.8 304.7 301.5 293.9 283.1	350.7 354.9 354.0 346.6 332.7	257. 257. 252. 244. 235. 231. 234.
996 995 994 993 992 991		880.8 896.4 914.1 915.0 923.5 9 901.6 8 912.1 918.4 926.3	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0	906.9 911.3 905.4 908.5 880.0 886.2 888.0	918.1 932.1 931.6 938.8 917.2 926.2 930.9	896.2 891.3 880.1 879.4 844.3 847.7 846.9	842.0 864.2 864.3 876.8 850.5 864.9 871.0	939.9 980.7 987.8 1,006.3 977.5 998.7 1,008.0	753.5 759.0 752.9 760.1 736.2 744.5 747.9	442.6 445.9 436.1 440.0 417.7 407.2 402.8	489.8 502.3 502.6 503.9 487.7 471.2 476.4	396.0 390.6 371.0 377.3 348.9 343.9 330.4	302.8 304.7 301.5 293.9 283.1 277.3 283.3	350.7 354.9 354.0 346.6 332.7 325.6 334.3	257. 257. 252. 244. 235. 231. 234. 229.
996		880.8 896.4 914.1 915.0 923.5 901.6 8 912.1 918.4 945.1	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9	939.9 980.7 987.8 1,006.3 977.5 998.7 1,008.0 1,026.7	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 339.0	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 282.0 278.9	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5	257 257 252 244 235 231 234 229 227
996 995 994 993 992 991 991 990 989 988		880.8 896.4 914.1 14 915.0 923.5 901.6 8 912.1 8 926.3 945.1 4 939.3 7 944.7	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2 910.5 900.1	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 864.9	939.9 980.7 987.8 1,006.3 977.5 998.7 1,008.0 1,026.7 1,026.1 1,006.2 1,002.6	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 339.0 325.9	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 282.0 278.9 276.2	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1	257. 257. 252. 244. 235. 231. 234. 229. 227. 222.
996 995 994 993 992 991 991 990 989 988 988		880.8 896.4 914.1 14 915.0 923.5 9 901.6 8 912.1 8 926.3 7 945.1 4 939.3 7 944.6	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3 809.1	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2 910.5 900.1 900.1	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6 963.6	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 864.9	939.9 980.7 987.8 1,006.3 977.5 998.7 1,008.0 1,026.7 1,026.1 1,006.2 1,002.6 989.3	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5 416.4	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 339.0 325.9 342.5	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 282.0 278.9 276.2 283.4	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6	257. 257. 252. 244. 235. 231. 234. 229. 227. 222. 219.
996	864. 872. 880. 875. 880. 852. 860. 863. 871. 876. 876.	880.8 896.4 914.1 14 915.0 923.5 9 901.6 3 912.1 8 918.4 926.3 7 945.1 14 939.3 7 944.7 9 948.6 9 938.8	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3 809.1 794.7	906.9 911.3 905.4 908.5 880.0 886.2 883.0 993.2 910.5 900.1 900.1 900.4 887.8	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6 963.6 954.1	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 840.1 824.6	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 864.9 854.8	939.9 980.7 987.8 1,006.3 977.5 998.7 1,008.0 1,026.7 1,026.1 1,006.2 1,002.6 989.3 968.5	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5 416.4 419.6	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 339.0 325.9 342.5 338.4	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 282.0 278.9 276.2 283.4 275.9	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6 336.5	257. 257. 252. 244. 235. 231. 234. 229. 227. 222. 219. 224. 218.
996 995 994 993 992 992 991 990 988 988 987 986 985	864. 872. 880. 875. 880. 852. 860. 863. 871. 886. 876. 876.	880.8 896.4 914.1 14 915.0 923.5 901.6 8 912.1 8 926.3 7 945.1 4 939.3 7 944.7 948.6 938.8 938.8 938.8	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3 809.1 794.7 788.4	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2 910.5 900.1 900.1 900.4 887.8 885.4	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6 963.6 954.1	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 840.1 824.6 816.4	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 854.8 836.1	939.9 980.7 987.8 1,006.3 977.5 998.7 1,008.0 1,026.7 1,002.6 989.3 968.5 971.2	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4 715.9	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 409.5 416.4 419.6 428.5	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7 515.1	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.0 325.9 342.5 342.5 343.9	302.8 304.7 301.5 293.9 283.1 277.3 280.9 282.0 278.9 276.2 283.4 275.9 276.1	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6 336.5 339.1	257. 257. 252. 244. 235. 231. 234. 229. 227. 222. 219. 224. 218.
996 995 994 993 992 9991 9991 9990 988 988 988 985 985	864. 872. 880. 875. 880. 852. 860. 863. 871. 886. 876. 876. 876.	880.8 896.4 914.1 1 915.0 923.5 9 901.6 8 912.1 8 926.3 7 945.1 4 939.3 7 944.6 938.8 938.8 943.2 1 938.4	849.2 849.7 847.3 837.6 838.6 806.5 811.0 818.9 831.2 816.7 812.3 809.1 794.7 788.4 771.2	906.9 911.3 905.4 908.5 880.0 886.2 888.0 93.2 910.5 900.1 900.4 887.8 885.4 873.1	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6 963.6 954.1 957.7	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 840.1 824.6 816.4 798.2	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 854.8 836.1 836.6 823.4	939.9 980.7 987.8 1,006.3 977.5 998.7 1,026.7 1,026.1 1,006.2 1,002.6 989.3 968.5 971.2	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4 715.9 695.5	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5 416.4 419.6 428.5 434.5	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7 515.1 522.9	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 339.0 325.9 342.5 338.4 343.9	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 282.0 278.9 276.2 283.4 275.9 276.1 271.3	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6 336.5 339.1 338.3	257. 257. 252. 244. 235. 231. 234. 229. 227. 222. 219. 224. 218. 216.
996	864. 872. 880. 875. 880. 852. 860. 863. 871. 876. 876. 876. 876. 876. 876. 876.	880.8 896.4 914.1 14 915.0 923.5 9 901.6 3 912.1 8 926.3 7 945.1 4 939.3 7 944.7 9 948.6 9 938.8 7 943.2 9 943.2	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3 809.1 794.7 788.4 771.2 775.0	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2 910.5 900.1 900.1 900.4 887.8 885.4 873.1 880.4	918.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6 963.6 954.1 957.7 951.8	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 844.1 824.6 816.4 798.2	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 854.8 836.1 836.6 823.4	939.9 980.7 987.8 1,006.3 977.5 998.7 1,026.7 1,026.1 1,002.6 989.3 968.5 971.2 966.2	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4 715.9 695.5	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5 416.4 419.6 428.5 434.5	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7 515.1 522.9 547.9	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 325.9 342.5 338.4 343.9 345.6	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 276.2 283.4 275.9 276.1 271.3 272.3	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 341.6 336.5 339.1 343.3 336.5	257. 257. 252. 244. 235. 234. 229. 227. 222. 219. 224. 218. 216. 207.
996 995 994 993 9992 9990 9990 988 988 987 986 987 986 987 986	864. 872. 880. 875. 880. 852. 860. 863. 871. 886. 876. 876. 876. 864. 863. 852.	880.8 896.4 914.1 915.0 923.5 901.6 8 912.1 8 926.3 7 945.1 4 939.3 7 944.7 944.6 9 938.8 9 938.8 9 938.8 9 938.9	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3 809.1 778.4 771.2 775.0 785.3	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2 910.5 900.1 900.1 900.4 887.8 885.4 873.1 880.4	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.7 958.6 963.6 954.1 957.7 951.8 965.2 983.3	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 840.1 824.6 816.4 798.2 799.8 806.1	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 864.9 854.8 836.1 836.6 823.4 842.4	939.9 980.7 987.8 1,006.3 977.5 998.7 1,026.7 1,026.1 1,002.6 989.3 968.5 971.2 966.2 992.6 1,034.1	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4 715.9 695.5 707.7	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5 416.4 419.6 428.5 434.5 434.5 445.6 487.4	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7 515.1 522.9 547.9 597.1	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.0 325.9 342.5 338.4 343.9 348.1 345.6 380.1	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 276.2 283.4 275.9 276.1 271.3 272.3 296.9	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6 336.5 338.3 338.3 336.5	257. 257. 252. 244. 235. 231. 234. 229. 227. 219. 224. 218. 207. 211. 222.
996 995 994 993 992 999 9991 990 988 988 988 985 986 985 985	864. 872. 880. 875. 880. 852. 860. 863. 871. 886. 876. 876. 876. 863. 863. 874. 863.	880.8 896.4 914.1 915.0 923.5 901.6 8 912.1 8 926.3 945.1 4 939.3 7 945.1 9 948.6 9 38.8 7 943.2 4 938.4 9 938.4 9 976.9 9 976.9	849.2 849.7 847.3 837.6 838.6 806.5 811.0 818.9 831.2 816.7 812.3 809.1 794.7 7788.4 771.2 775.0 85.3 807.8	906.9 911.3 905.4 908.5 880.0 886.2 910.5 900.1 900.1 900.4 887.8 885.4 873.1 880.4 892.5 946.3	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.9 952.7 958.6 963.6 954.1 957.7 951.8 965.2 983.3 1,086.7	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 840.1 824.6 816.4 799.8 806.1 812.6	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 868.9 854.8 836.1 836.6 823.4 842.4 875.4	939.9 980.7 987.8 1,006.3 977.5 998.7 1,026.7 1,026.1 1,002.6 989.3 968.5 971.2 966.2 992.6 1,034.1 1,186.6	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4 715.9 695.5 707.7 733.3	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 419.5 416.4 419.6 428.5 434.5 445.6 487.4	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7 515.1 522.9 547.9	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.9 325.9 342.5 338.4 343.9 345.6	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 278.9 276.2 283.4 275.9 276.1 271.3 272.3 296.9	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6 336.5 339.1 338.3 336.2	264. 257. 257. 252. 244. 235. 231. 234. 229. 227. 222. 219. 224. 216. 207. 211.
996 995 994 993 9992 9990 9990 988 988 987 986 987 986 987 986	864. 872. 880.0 875. 880.0 852. 860.3 863. 871. 886. 876. 876. 876. 876. 876. 876. 876	80.8 896.4 914.1 14 915.0 923.5 9 901.6 8 912.1 8 926.3 7 945.1 4 939.3 7 944.7 9 948.6 9 938.8 9 943.2 4 938.4 9 954.0 9 954.0	849.2 849.7 847.3 837.6 838.6 806.5 811.0 812.0 818.9 831.2 816.7 812.3 809.1 778.4 771.2 775.0 785.3	906.9 911.3 905.4 908.5 880.0 886.2 888.0 893.2 910.5 900.1 900.1 900.4 887.8 885.4 873.1 880.4	918.1 932.1 931.6 938.8 917.2 926.2 930.9 936.5 957.7 958.6 963.6 954.1 957.7 951.8 965.2 983.3	896.2 891.3 880.1 879.4 844.3 847.7 846.9 851.8 865.3 849.8 844.3 840.1 824.6 816.4 798.2 799.8 806.1	842.0 864.2 864.3 876.8 850.5 864.9 871.0 887.9 888.3 864.9 854.8 836.1 836.6 823.4 842.4	939.9 980.7 987.8 1,006.3 977.5 998.7 1,026.7 1,026.1 1,002.6 989.3 968.5 971.2 966.2 992.6 1,034.1	753.5 759.0 752.9 760.1 736.2 744.5 747.9 763.2 764.6 745.7 741.5 734.2 717.4 715.9 695.5 707.7	442.6 445.9 436.1 440.0 417.7 407.2 402.8 430.5 411.7 410.7 409.5 416.4 419.6 428.5 434.5 434.5 445.6 487.4	489.8 502.3 502.6 503.9 487.7 471.2 476.4 510.7 485.0 483.8 494.9 492.5 502.7 515.1 522.9 547.9	396.0 390.6 371.0 377.3 348.9 343.9 330.4 351.3 339.0 325.9 342.5 348.4 343.9 348.1	302.8 304.7 301.5 293.9 283.1 277.3 283.3 280.9 276.2 283.4 275.9 276.1 271.3 272.3 296.9	350.7 354.9 354.0 346.6 332.7 325.6 334.3 334.5 339.0 338.3 335.1 344.6 336.5 338.3 338.3 336.5	257. 257. 252. 244. 235. 231. 234. 229. 227. 219. 224. 218. 216. 207. 211.

Table 1. Number of deaths, death rates, and age-adjusted death rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1980-1999 - Con.

[Crude rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; 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. 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]

		All races ¹			White			Black		Ame	erican Indiar	1 2	Asian or	Pacific Isla	nder ³
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
							Age-ad	usted death	rate ⁴						
1999	881.9 875.8 887.3 902.4 918.5 920.2 931.5 910.9 925.5 938.7 950.5 975.7 970.0 978.6 988.1 982.5 990.0 1,007.1 1,039.1 1,222.6	1,061.8 1,064.6 1,090.5 1,117.5 1,150.3 1,160.9 1,181.8 1,161.2 1,182.6 1,202.8 1,215.0 1,250.7 1,246.1 1,261.7 1,271.4	743.6 732.7 736.3 742.8 748.2 745.0 751.0 731.2 741.6 750.9 761.8 781.0 774.2 778.7 784.5 779.8 783.3 776.6 792.7 817.9 971.4	860.7 854.7 864.9 877.6 890.0 891.6 902.0 909.8 920.2 947.6 943.4 952.8 963.6 959.7 967.3 963.6 984.0 1,012.7 1,193.3 1,311.3	1,035.8 1,038.5 1,062.5 1,086.1 1,112.7 1,123.4 1,143.0 1,125.6 1,146.4 1,165.9 1,176.6 1,215.9 1,213.4 1,230.5 1,244.9 1,259.4 1,259.9 1,259.9 1,259.9 1,259.9 1,259.9	725.7 715.1 718.3 723.3 726.6 723.5 728.9 709.5 719.8 728.8 738.8 759.1 753.3 758.1 764.3 760.7 763.9 758.7 773.6 796.1	1,147.1 1,135.7 1,151.5 1,188.7 1,224.6 1,247.2 1,216.9 1,237.9 1,250.3 1,275.5 1,284.3 1,263.1 1,266.7 1,261.2 1,236.7 1,240.5 1,258.4 1,314.8 1,518.1 1,577.5	1,412.5 1,410.6 1,446.7 1,513.9 1,589.8 1,629.3 1,591.4 1,622.0 1,644.5 1,670.1 1,670.1 1,650.3 1,650.3 1,600.8 1,600.7 1,580.4 1,626.6 1,697.8 1,873.9 1,873.9	955.0 938.2 940.7 956.3 970.1 965.0 977.7 954.4 968.0 975.1 1,006.8 989.7 994.4 976.9 980.7 960.1 986.6 1,033.3 1,228.7	716.1 705.2 711.6 702.6 716.5 708.6 740.8 709.7 710.5 716.3 761.6 719.8 720.8 731.7 757.3 757.0 784.6 867.0	842.0 856.7 880.3 838.5 864.2 882.5 925.9 899.2 889.0 916.2 999.8 917.4 899.3 926.7 926.1 946.0 940.1 1,030.2 1,111.5	608.5 582.2 574.0 590.5 592.8 567.7 596.6 560.3 567.7 561.8 583.7 549.3 577.2 567.9 605.5 604.4 588.0 662.4	517.5 516.8 533.9 539.7 616.0 607.6 603.4 558.3 582.0 581.3 577.3 576.4 586.5 574.4 565.1 550.4 544.7	640.6 642.3 671.1 678.0 788.1 775.7 769.0 698.3 697.9 716.4 729.6 732.0 732.4 730.5 755.4 724.7 718.8 738.2 710.3 786.5	424.0 420.4 429.7 433.2 488.4 480.6 475.2 445.3 444.4 451.0 448.1 445.4 456.7 443.1 428.8 410.3 405.3 425.9
1950 1940	1,446.0 1,785.0	1,674.2 1,976.0	1,236.0 1,599.4	1,410.8 1,735.3	1,642.5 1,925.2	1,198.0 1,550.4									

⁻⁻⁻ Data not available.

1 For 1940-91 includes deaths among races not shown separately; see Other races and race not stated in the Technical notes for information for 1992 to present. Includes Aleuts and Eskimos.

3 Includes Chinese, Filipino, Hawaiian, Japanese, and Other Asian or Pacific Islander.

4 For method of computation, see Technical notes.

Table 2. Number of deaths and death rates, by age, race, and sex: United States, 1999

[Rates per 100,000 population in specified group. 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]

		All races			White			Black		Ame	erican Indiar	1 1	r Pacific Isla	nder ²	
Age	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
								Number							
All ages	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
Under 1 year	27,937	15,646	12,291	18,067	10,197	7,870	8,822	4,897	3,925	343	180	163	705	372	333
1 - 4 years	5,249	2,975	2,274	3,690	2,084	1,606	1,311	746	565	82	48	34	166	97	69
5 - 9 years	3,474	1,964	1,510	2,450	1,376	1,074	880	519	361	48	21	27	96	48	48
10 - 14 years	4,121	2,528	1,593	3,043	1,852	1,191	909	577	332	57	34	23	112	65	47
15 - 19 years	13,778	9,780	3,998	10,355	7,222	3,133	2,849	2,157	692	245	179	66	329	222	107
20 - 24 years	16,878	12,634	4,244	11,997	8,981	3,016	4,217	3,191	1,026	295	217	78	369	245	124
25 - 29 years	17,703 23,363	12,542 15,734	5,161 7,629	12,569 16,831	9,015 11,534	3,554 5,297	4,444 5,671	3,073 3,650	1,371 2,021	281 364	180 238	101 126	409 497	274 312	135 185
30 - 34 years	36,804	23,681	13,123	27,024	17,792	9,232	8,663	5,171	3,492	453	293	160	664	425	239
35 - 39 years 40 - 44 years	52,452	33,437	19,015	38,583	25,122	13,461	12,378	7,396	4,982	574	352	222	917	567	350
45 - 49 years	68,120	43,303	24,817	50,895	32,778	18,117	15,304	9,392	5,912	628	415	213	1,293	718	575
50 - 54 years	84,854	52,356	32,498	66,116	41,130	24,986	16,455	9,906	6,549	700	430	270	1,583	890	693
55 - 59 years	104,884	63,441	41,443	83,876	51,133	32,743	18,359	10,751	7,608	783	452	331	1,866	1,105	761
60 - 64 years	134,095	79,283	54.812	109.706	65,404	44.302	21,117	12,018	9.099	891	468	423	2,381	1.393	988
65 - 69 years	186,695	107,529	79,166	157,260	91,520	65,740	25,461	13,862	11,599	1,037	558	479	2,937	1,589	1,348
70 - 74 years	265,905	147,391	118,514	230,177	128,922	101,255	30,661	15,732	14,929	1,127	590	537	3,940	2,147	1,793
75 - 79 years	338,349	174,853	163,496	299,701	155,859	143,842	32,927	15,873	17,054	1,151	587	564	4,570	2,534	2,036
80 - 84 years	360,241	166,117	194,124	326,788	151,591	175,197	28,274	11,966	16,308	913	400	513	4,266	2,160	2,106
85 years and over	646,141	209,989	436,152	591,949	191,610	400,339	46,285	14,768	31,517	1,339	449	890	6,568	3,162	3,406
Not stated	356	277	79	271	213	58	77	58	19	1	1	-	7	5	2
								Rate							
All ages ³	877.0	882.0	872.2	917.7	911.2	924.1	817.7	880.0	761.3	471.8	513.3	431.2	311.2	352.7	272.8
Under 1 year ⁴	731.4	801.5	658.1	596.8	658.1	532.6	1,551.1	1,694.0	1,403.3	806.3	839.5	772.5	388.6	403.4	373.4
1 - 4 years	34.7	38.5	30.8	30.7	33.9	27.4	58.9	66.0	51.5	51.4	59.4	43.1	23.0	26.6	19.4
5 - 9 years	17.4	19.2	15.5	15.6	17.1	14.0	28.0	32.5	23.3	21.9	18.9	25.0	11.0	10.6	11.3
10 - 14 years	21.1	25.3	16.7	19.8	23.5	15.9	29.4	36.8	21.9	22.9	26.9	18.8	13.6	15.4	11.7
15 - 19 years	69.8	96.3	41.7	66.2	89.5	41.3	93.6	139.3	46.3	104.4	151.8	56.5	40.0	53.4	26.3
20 - 24 years	93.6	137.6	48.0	83.5	121.8	43.1	156.4	239.3	75.3	151.8	221.7	80.9	48.1	64.5	32.0
25 - 29 years	97.2	138.5	56.4	86.7	123.7	49.3	170.2	246.1	100.6	145.4	181.7	107.3	45.5	65.5	28.0
30 - 34 years	118.4	161.0	76.6	105.7	144.5	66.7	212.0	290.5	142.4	201.3	258.1	142.2	52.7	71.2	36.6
35 - 39 years	163.2	211.1	115.8	146.0	191.3	100.3	298.5	378.9	227.2	243.8	314.2	172.8	69.6	93.3	48.0
40 - 44 years	235.5	302.9	169.3	209.2	271.9	146.2	450.0	573.9	340.8	331.9	414.8	252.1	101.7	132.9	73.7
45 - 49 years	351.9 516.0	455.8 654.6	251.8 384.7	314.1 470.8	407.3 595.5	222.1 350.1	683.3 974.3	915.6 1,307.0	487.0 703.5	438.3 621.0	596.8 794.1	288.9 460.9	168.5 263.4	200.6 318.3	140.4 215.6
50 - 54 years	814.6	1,026.1	619.2	470.8 757.2	950.6	574.6	1,424.0	1,307.0	1.049.3	937.6	1,145.1	751.5	203.4 439.0	552.8	338.0
55 - 59 years 60 - 64 years	1,275.4	1,595.9	988.3	1,211.4	1,510.1	937.6	2,000.0	2,667.9	1,503.0	1,379.3	1,145.1	1,227.2	706.2	892.1	545.9
65 - 69 years	1,976.2	2,479.5	1,549.1	1,920.4	2,410.3	1,496.9	2,722.6	3,464.9	2,167.6	2,071.8	2,471.2	1,743.5	1,074.9	1,358.4	862.7
70 - 74 years	3,031.6	3,816.5	2,414.2	2,962.4	3,740.4	2,342.1	4,124.9	5,116.9	3,425.2	2,785.7	3,246.0	2,410.1	1,812.5	2,394.6	1,403.9
75 - 79 years	4,616.3	5,719.8	3,826.7	4,551.6	5,647.4	3,760.8	5,903.6	7,297.1	5,012.6	3,666.0	4,358.5	3,145.7	2,933.9	3,828.0	2,273.1
80 - 84 years	7,478.2	9,156.8	6,464.2	7,459.1	9,163.1	6,425.3	8,533.4	10,335.9	7,565.3	4,770.9	5,165.3	4,502.8	4,979.3	5,957.6	4,261.6
85 years and over	15,476.1	16,931.3	14,861.2	15,688.0	17,202.1	15,053.8	14,787.7	16,047.8	14,262.9	6,569.8	6,946.2	6,395.1	9,596.9	11,343.5	8,396.6

Quantity zero.

¹ Includes Aleuts and Eskimos.

Includes Alieuts and Essamos.

Includes Chinese, Filipino, Hawaiian, Japanese, and Other Asian or Pacific Islander.

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

⁴ Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical notes.

Table 3. Number of deaths and death rates by Hispanic origin, race for non-Hispanic population, age, and sex: United States, 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; 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]

		All origins ¹			Hispanic		N	Ion-Hispanic	2	Non	-Hispanic V	Vhite	Non	-Hispanic B	lack
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	_							Number							
All ages	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
Under 1 year	27,937	15,646	12,291	4,412	2,411	2,001	23,126	12,998	10,128	13,553	7,718	5,835	8,589	4,765	3,824
1 - 4 years	5,249	2,975	2,274	882	481	401	4,343	2,479	1,864	2,819	1,605	1,214	1,283	734	549
5 - 9 years	3,474	1,964	1,510	464	266	198	3,001	1,692	1,309	1,990	1,115	875	869	508	361
10 - 14 years	4,121	2,528	1,593	550	326	224	3,559	2,193	1,366	2,498	1,528	970	902	573	329
15 - 19 years	13,778	9,780	3,998	1,871	1,432	439	11,861	8,323	3,538	8,490	5,799	2,691	2,813	2,133	680
20 - 24 years	16,878	12,634	4,244	2,634	2,115	519	14,182	10,474	3,708	9,378	6,878	2,500	4,167	3,153	1,014
25 - 29 years	17,703	12,542	5,161	2,527	1,956	571	15,091	10,525	4,566	10,048	7,056	2,992	4,390	3,038	1,352
30 - 34 years	23,363	15,734	7,629	2,870	2,128	742	20,380	13,522	6,858	13,938	9,393	4,545	5,602	3,595	2,007
35 - 39 years	36,804	23,681	13,123	3,624	2,601	1,023	32,997	20,947	12,050	23,345	15,144	8,201	8,563	5,104	3,459
40 - 44 years	52,452	33,437	19,015	4,174	2,875	1,299	47,952	30,325	17,627	34,285	22,147	12,138	12,207	7,280	4,927
45 - 49 years	68,120	43,303	24,817	4,767	3,213	1,554	62,981	39,813	23,168	45,974	29,448	16,526	15,131	9,266	5,865
50 - 54 years	84,854	52,356	32,498	5,109	3,284	1,825	79,321	48,754	30,567	60,834	37,703	23,131	16,246	9,760	6,486
55 - 59 years	104,884	63,441	41,443	5,495	3,409	2,086	98,934	59,720	39,214	78,170	47,570	30,600	18,176	10,627	7,549
60 - 64 years	134,095	79,283	54,812	6,824	4,081	2,743	126,725	74,820	51,905	102,623	61,122	41,501	20,887	11,866	9,021
65 - 69 years	186,695	107,529	79,166	8,843	5,026	3,817	177,240	102,119	75,121	148,130	86,299	61,831	25,217	13,720	11,497
70 - 74 years	265,905	147,391	118,514	10,358	5,757	4,601	254,712	141,091	113,621	219,360	122,856	96,504	30,350	15,539	14,811
75 - 79 years	338,349	174,853	163,496	11,081	5,860	5,221	326,279	168,453	157,826	288,018	149,671	138,347	32,618	15,706	16,912
80 - 84 years	360,241	166,117	194,124	9,831	4,457	5,374	349,451	161,229	188,222	316,326	146,857	169,469	28,016	11,846	16,170
85 years and over	646,141	209,989	436,152	17,358	6,253	11,105	627,035	203,128	423,907	573,327	184,938	388,389	45,895	14,628	31,267
Not stated	356	277	79	66	60	6	155	113	42	91	66	25	58	42	16
								Rate							
All ages ³	877.0	882.0	872.2	331.0	367.9	293.7	944.4	946.9	942.0	996.3	984.7	1,007.4	852.1	918.0	792.8
Under 1 year 4	731.4	801.5	658.1	611.5	655.3	565.9	746.4	820.5	668.9	572.7	636.5	505.6	1,623.6	1,773.3	1,469.1
1 - 4 years	34.7	38.5	30.8	32.1	34.3	29.8	35.1	39.2	30.8	29.7	32.9	26.2	61.8	69.8	53.7
5 - 9 years	17.4	19.2	15.5	14.3	16.1	12.5	18.0	19.8	16.1	15.6	17.0	14.1	29.3	33.8	24.8
10 - 14 years	21.1	25.3	16.7	20.1	23.3	16.7	21.2	25.5	16.7	19.3	23.1	15.4	30.8	38.6	22.8
15 - 19 years	69.8	96.3	41.7	67.3	99.1	32.9	69.9	95.6	42.8	64.7	85.9	42.3	97.3	145.2	47.8
20 - 24 years	93.6	137.6	48.0	97.9	151.6	40.1	92.5	134.5	49.1	78.8	112.9	43.0	163.0	249.7	78.4
25 - 29 years	97.2	138.5	56.4	98.3	148.3	45.6	96.5	136.0	57.8	82.6	116.0	49.2	177.4	257.1	104.5
30 - 34 years	118.4	161.0	76.6	107.9	154.7	57.7	119.4	161.1	79.1	103.2	139.5	67.1	222.1	304.9	149.5
35 - 39 years	163.2	211.1	115.8	140.3	195.8	81.5	165.3	211.9	119.6	144.5	187.1	101.7	311.6	396.8	236.7
40 - 44 years	235.5	302.9	169.3	192.8	262.6	121.4	238.5	305.0	173.5	208.0	268.6	147.4	466.2	596.0	352.7
45 - 49 years	351.9	455.8	251.8	287.6	392.4	185.2	355.9	458.6	256.9	312.7	403.1	223.4	706.9	948.9	503.9

Table 3. Number of deaths and death rates by Hispanic origin, race for non-Hispanic population, age, and sex: United States, 1999-Con.

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; 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]

	All origins ¹				Hispanic		No	on-Hispanic	2	Non-	Hispanic W	hite	Non-	-Hispanic B	lack
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
								Rate							
50 - 54 years	516.0 814.6 1,275.4 1,976.2 3,031.6 4,616.3	654.6 1,026.1 1,595.9 2,479.5 3,816.5 5,719.8	384.7 619.2 988.3 1,549.1 2,414.2 3,826.7	406.4 589.4 913.8 1,444.8 2,115.3 3.154.8	542.6 780.8 1,195.0 1,841.1 2,704.7 3.913.0	280.0 420.9 676.9 1,125.8 1,662.1 2,591.2	522.2 828.4 1,297.5 2,006.1 3,075.7 4,675.7	659.4 1,039.3 1,617.3 2,512.9 3,866.4 5,794.2	392.1 632.8 1,009.7 1,574.4 2,452.8 3,876.8	471.6 764.4 1,225.8 1,942.0 2,997.8 4.602.0	593.3 955.2 1,521.3 2,433.4 3,780.8 5,712.0	353.5 583.3 953.0 1,515.0 2,372.3 3,802.6	1,004.9 1,470.9 2,060.8 2,802.3 4,227.5 6.031.7	1,349.2 1,970.2 2,748.4 3,567.2 5,236.8 7,455.4	726.1 1,084.2 1,550.5 2,231.3 3,516.5 5,123.2
80 - 84 years 85 years and over	7,478.2 15,476.1	9,156.8 16,931.3	6,464.2 14,861.2	4,838.3 9,175.7	5,696.6 9,842.3	4,300.9 8,838.7	7,573.7 15,731.3	9,288.0 17,262.4	6,539.8 15,090.0	7,546.5 15,945.8	9,286.8 17,539.1	6,492.2 15,284.6	8,702.5 15,015.8	10,546.4 16,321.0	7,714.4 14,474.3

¹ All origins includes origin not stated; specified origins exclude origin not stated. 2 Includes races other than white and black.

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

⁴ Death rates for "Under1 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 age, and age-adjusted death rates, according to specified Hispanic origin, race for non-Hispanic population, and sex: United States, 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; 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	Under 1 year ¹	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Age not stated	Age- adjusted rate ²
							Num	nber						
All origins Male Female	1,175,460	27,937 15,646 12,291	5,249 2,975 2,274	7,595 4,492 3,103	30,656 22,414 8,242	41,066 28,276 12,790	89,256 57,118 32,138	152,974 95,659 57,315	238,979 142,724 96,255	452,600 254,920 197,680	698,590 340,970 357,620	646,141 209,989 436,152	356 277 79	
Hispanic Male Female Mexican Male Female Puerto Rican Male Female Cuban Male Female Cuban Male Female Central and South American Male Female Other and unknown Hispanic Male Female	103,740 57,991 45,749 57,425 33,099 24,326 13,909 7,807 6,102 11,029 5,561 5,468 9,064 4,708 4,356 12,313 6,816 5,497	4,412 2,411 2,001 3,159 1,721 1,438 426 225 201 66 34 32 295 156 139 466 275	882 481 401 637 353 284 71 43 28 12 5 7 73 36 37 89 44	1,014 592 422 697 417 280 99 54 45 21 13 8 97 58 39 100 50	4,505 3,547 958 3,156 2,524 632 414 300 114 64 44 20 484 377 107 387 302 85	5,397 4,084 1,313 3,452 2,679 773 681 463 218 117 87 30 700 530 170 447 325 122	7,798 5,476 2,322 4,430 3,179 1,251 1,320 873 447 319 236 83 876 584 292 853 604 249	9,876 6,497 3,379 5,483 3,619 1,864 1,788 1,230 558 513 354 159 1,021 605 416 1,071 689 382	12,319 7,490 4,829 6,662 3,990 2,672 2,070 1,343 727 1,071 690 381 1,186 668 518 1,330 799 531	19,201 10,783 8,418 10,668 5,908 4,760 2,592 1,443 1,149 2,127 1,349 778 1,601 760 841 2,213 1,323 890	20,912 10,317 10,595 10,847 5,533 5,314 2,577 1,189 1,388 3,204 1,603 1,601 1,526 589 937 2,758 1,403 1,355	17,358 6,253 11,105 8,214 3,156 5,058 1,870 644 1,226 3,507 1,141 2,366 1,203 343 860 2,564 969 1,595	66 60 6 20 20 - 1 1 8 5 3 2 2 2 - 35 33 2	
Non-Hispanic ³ Male Female White Male Female Black Male Female	1,112,718 1,166,607 1,953,197 944,913 1,008,284 281,979 143,883	23,126 12,998 10,128 13,553 7,718 5,835 8,589 4,765 3,824	4,343 2,479 1,864 2,819 1,605 1,214 1,283 734 549	6,560 3,885 2,675 4,488 2,643 1,845 1,771 1,081 690	26,043 18,797 7,246 17,868 12,677 5,191 6,980 5,286 1,694	35,471 24,047 11,424 23,986 16,449 7,537 9,992 6,633 3,359	80,949 51,272 29,677 57,630 37,291 20,339 20,770 12,384 8,386	142,302 88,567 53,735 106,808 67,151 39,657 31,377 19,026 12,351	225,659 134,540 91,119 180,793 108,692 72,101 39,063 22,493 16,570	431,952 243,210 188,742 367,490 209,155 158,335 55,567 29,259 26,308	675,730 329,682 346,048 604,344 296,528 307,816 60,634 27,552 33,082	627,035 203,128 423,907 573,327 184,938 388,389 45,895 14,628 31,267	155 113 42 91 66 25 58 42 16	
Not stated ⁴	8,334 4,751 3,583	399 237 162	24 15 9	21 15 6	108 70 38	198 145 53	509 370 139	796 595 201	1,001 694 307	1,447 927 520	1,948 971 977	1,748 608 1,140	135 104 31	
							Rate	5,6						
All origins Male Female	877.0 882.0 872.2	731.4 801.5 658.1	34.7 38.5 30.8	19.2 22.2 16.1	81.2 115.9 44.7	108.3 150.2 66.9	199.2 256.7 142.5	427.3 546.7 313.1	1,021.8 1,280.0 786.5	2,484.3 3,109.3 1,972.9	5,751.3 6,999.8 4,915.4	15,476.1 16,931.3 14,861.1		881.9 1,061.8 743.6
Hispanic Male Female Mexican Male Female Puerto Rican Male Female Female Female	331.0 367.9 293.7 280.3 313.8 244.7 472.3 550.0 399.9	611.5 655.3 565.9 616.7 659.2 572.4	32.1 34.3 29.8 32.1 35.4 28.8 30.7	16.9 19.4 14.4 16.7 19.4 13.9 18.2 19.2	82.4 124.9 36.4 83.3 125.9 35.4 81.9 121.5 44.1	103.2 151.6 51.8 98.5 145.7 46.4 150.9 219.5 90.7	164.2 226.0 99.9 151.4 207.7 89.7 300.3 429.3 189.2	338.8 456.3 226.7 321.0 412.8 224.2 562.7 825.3 330.7	733.7 962.6 536.0 721.0 885.9 564.1 1,072.2 *	1,742.8 2,219.4 1,366.8 1,784.4 2,172.7 1,460.5 2,036.3	3,771.8 4,525.1 3,245.6 3,711.1 4,171.0 3,329.0	9,175.2 9,842.3 8,838.0 *		601.0 736.0 490.1 595.3 694.1 503.2 829.9

Table 4. Number of deaths and death rates by age, and age-adjusted death rates, according to specified Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; 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	Under 1 year ¹	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Age not stated	Age- adjusted rate ²
							Rate	5,6						
Hispanic - Con.														
Cuban Male Female Other Hispanic ⁷ Male Female	820.4 859.7 783.9 325.9 366.2 288.8	574.5 *	34.0 31.0 37.5	17.3 19.6 15.2	47.0 * 83.7 129.9 37.1	66.7 * 104.3 153.1 54.0	153.1 210.6 * 147.1 205.9 90.5	302.0 * 291.0 409.7 198.0	616.9 * 647.9 973.0 441.6	1,467.3 * 1,646.4 1,218.9	3,280.6 * 4,190.6 *	* * * * *		555.5 721.7 437.2 559.5 738.2 441.5
Non-Hispanic ³ Male Female White Male Female Black Male Female Female	944.4 946.9 942.0 996.3 984.7 1,007.4 852.1 918.0 792.8	746.4 820.5 668.9 572.7 636.5 505.6 1,623.6 1,773.3 1,469.1	35.1 39.2 30.8 29.7 32.9 26.2 61.8 69.8 53.7	19.6 22.6 16.4 17.5 20.1 14.8 30.1 36.2 23.8	80.6 114.0 45.8 71.4 98.7 42.6 128.2 193.5 62.4	108.5 149.1 68.9 93.4 128.4 58.6 200.0 281.0 127.4	202.0 258.5 146.7 176.6 228.2 124.8 387.0 493.8 293.4	432.7 551.0 319.6 387.0 491.6 284.5 835.2 1,119.2 600.4	1,039.4 1,297.1 803.7 972.1 1,208.0 751.0 1,736.7 2,316.1 1,296.5	2,523.6 3,153.3 2,007.1 2,458.9 3,077.6 1,942.9 3,434.7 4,294.3 2,809.3	5,829.1 7,100.4 4,979.7 5,783.1 7,057.5 4,926.2 7,028.3 8,530.2 6,129.5	15,731.3 17,262.3 15,090.0 15,945.8 17,539.1 15,284.6 15,015.7 16,320.6 14,474.3		894.9 1,076.6 756.0 869.4 1,045.1 734.9 1,177.0 1,451.0 979.3

^{...} 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 Includes deaths for which Hispanic origin was not reported on the death certificate.

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

6 All origins includes origin not stated; specified origins exclude origin not stated.

7 Includes Central and South American and Other and unknown Hispanic

⁷ Includes Central and South American and Other and unknown Hispanic.

Table 5. Abridged life table for the total population, 1999

[For explanation of the columns of the life table, see United States Abridged Life Tables, 1998, National Vital Statistics Reports, Volume 48, Number 18]

Age interval	Proportion dying	Of 100,000	born alive	Stationa	ary population	Average remaining lifetime
Period of life between two exact ages stated in years (1)	Proportion of persons alive at beginning of age interval dying during interval (2)	Number living at beginning of age interval (3)	Number dying during age interval (4)	In the age interval (5)	In this and all subsequent age intervals (6)	Average number of years of life remaining at beginning of age interval (7)
<i>x</i> to <i>x</i> + <i>n</i>	nqx		nd_X	n ^L x		$\stackrel{o}{e_{\!\scriptscriptstyle X}}$
0-1	0.00706	100.000	706	99.384	7.672.728	76.7
1-5	0.00138	99,294	137	396,850	7,573,344	76.3
5-10	0.00088	99.157	87	495,553	7.176.494	72.4
10-15	0.00105	99,070	104	495,154	6,680,941	67.4
15-20	0.00349	98.966	345	494.048	6.185.787	62.5
20-25	0.00467	98,621	461	491,972	5,691,739	57.7
25-30	0.00485	98.160	476	489.624	5,199,767	53.0
30-35	0.00589	97,684	575	487,046	4,710,143	48.2
35-40	0.00811	97.109	788	483,681	4,223,097	43.5
40-45	0.01174	96,321	1.131	478,946	3,739,416	38.8
45-50	0.01753	95,190	1,669	472,027	3,260,470	34.3
50-55	0.02564	93,521	2,398	461,981	2,788,443	29.8
55-60	0.04028	91,123	3,670	447,053	2,326,462	25.5
60-65	0.06212	87,453	5,433	424,515	1,879,409	21.5
65-70	0.09432	82,020	7,736	391,815	1,454,894	17.7
70-75	0.14115	74,284	10,485	346,326	1,063,079	14.3
75-80	0.20804	63,799	13,273	286,913	716,753	11.2
80-85	0.31784	50,526	16,059	213,410	429,840	8.5
85-90	0.46485	34,467	16,022	131,252	216,430	6.3
90-95	0.61935	18,445	11,424	61,192	85,178	4.6
95-100	0.75858	7,021	5,326	19,623	23,986	3.4
100 and over	1.00000	1,695	1,695	4,363	4,363	2.6

Table 6. Life expectancy at selected ages by race and sex: United States, 1999

		All races ¹			White			Black	
Exact age in years	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
0	76.7	73.9	79.4	77.3	74.6	79.9	71.4	67.8	74.7
5	76.3	73.5	78.9	76.8	74.1	79.3	71.5	67.9	74.7
	72.4	69.6	75.0	72.9	70.2	75.4	67.6	64.1	70.9
10	67.4	64.7	70.0	67.9	65.2	70.5	62.7	59.2	66.0
	62.5	59.8	65.1	63.0	60.3	65.5	57.8	54.3	61.0
15 20	57.7	55.0	60.2	58.2	55.6	60.6	53.1	49.6	56.2
25	53.0	50.4	55.4	53.4	50.9	55.8	48.5	45.2	51.4
30	48.2	45.7	50.5	48.6	46.2	50.9	43.9	40.7	46.6
35	43.5	41.1	45.7	43.9	41.5	46.1	39.3	36.3	41.9
40	38.8	36.5	41.0	39.2	36.9	41.3	34.8	31.9	37.4
45	34.2	32.0	36.3	34.6	32.4	36.6	30.6	27.8	33.0
50	29.8	27.7	31.7	30.1	28.0	32.0	26.6	24.0	28.7
55	25.5	23.5	27.3	25.7	23.8	27.5	22.8	20.4	24.7
60	21.5	19.6	23.1	21.6	19.8	23.2	19.3	17.2	20.9
65	17.7	16.1	19.1	17.8	16.1	19.2	16.0	14.3	17.3
70	14.3	12.8	15.4	14.4	12.9	15.5	13.0	11.6	14.0
75 80	11.2	10.0	12.1	11.2 8.5	10.0	12.1	10.4	9.2	11.1
80	8.5	7.5	9.1	8.5	7.5	9.0	8.2	7.2	8.6
85	6.3	5.5	6.6	6.2	5.4	6.6	6.2	5.6	6.5
90	4.6	4.1	4.8	4.5	4.0	4.7	4.8	4.4	4.8
95	3.4	3.0	3.5	3.2	2.9	3.3	3.6	3.5	3.6
100	2.6	2.4	2.6	2.3	2.2	2.4	2.8	2.8	2.7

¹ Includes races other than white and black.

Table 7. Life expectancy at birth by race and sex: United States, 1940, 1950, 1960, 1970 and 1975-99

		All races ¹			White			Black	
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
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
997	76.5	73.6	79.4	77.1	74.3	79.9	71.1	67.2	74.7
996	76.1	73.1	79.1	76.8	73.9	79.7	70.2	66.1	74.2
995	75.8	72.5	78.9	76.5	73.4	79.6	69.6	65.2	73.9
994	75.7	72.4	79.0	76.5	73.3	79.6	69.5	64.9	73.9
993	75.5	72.2	78.8	76.3	73.1	79.5	69.2	64.6	73.7
992	75.8	72.3	79.1	76.5	73.2	79.8	69.6	65.0	73.9
991	75.5	72.0	78.9	76.3	72.9	79.6	69.3	64.6	73.8
990	75.4	71.8	78.8	76.1	72.7	79.4	69.1	64.5	73.6
989	75.4 75.1	71.7	78.5	75.9	72.7	79.2	68.8	64.3	73.3
988	74.9	71.7	78.3	75.6	72.2	78.9	68.9	64.4	73.2
987	74.9	71.4	78.3	75.6	72.1	78.9	69.1	64.7	73.4
986	74.7	71.4	78.2	75.4	71.9	78.8	69.1	64.8	73.4
985	74.7	71.2	78.2 78.2	75.4	71.8	78.7	69.3	65.0	73.4
984	74.7	71.1	78.2 78.2	75.3 75.3	71.8	78.7 78.7	69.5	65.3	73.4
	74.7	71.1	78.2 78.1	75.3 75.2	71.6	78.7 78.7	69.4	65.2	73.5
983	74.6 74.5	71.0	78.1 78.1	75.∠ 75.1	71.6	78.7 78.7	69.4 69.4	65.2 65.1	73.5
982									
981	74.1	70.4	77.8	74.8	71.1	78.4	68.9	64.5	73.2
980	73.7	70.0	77.4	74.4	70.7	78.1	68.1	63.8	72.5
979	73.9	70.0	77.8	74.6	70.8	78.4	68.5	64.0	72.9
978	73.5	69.6	77.3	74.1	70.4	78.0	68.1	63.7	72.4
977	73.3	69.5	77.2	74.0	70.2	77.9	67.7	63.4	72.0
976	72.9	69.1	76.8	73.6	69.9	77.5	67.2	62.9	71.6
975	72.6	68.8	76.6	73.4	69.5	77.3	66.8	62.4	71.3
970	70.8	67.1	74.7	71.7	68.0	75.6	64.1	60.0	68.3
960	69.7	66.6	73.1	70.6	67.4	74.1			
950	68.2	65.6	71.1	69.1	66.5	72.2			
940	62.9	60.8	65.2	64.2	62.1	66.6			

⁻⁻⁻ Data not available.

1 Includes races other than white and black.

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Table 8. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 1999: United States, 1998, modified 1998, and 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes]

						A	ge						Age-
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992) and year	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	adjusted rate ³
All causes													
1999 1998 (modified) ⁴ 1998 ⁵	877.0 864.7 864.7	731.4 751.3 751.3	34.7 34.6 34.6	19.2 19.9 19.9	81.2 82.3 82.3	108.3 109.6 109.6	199.2 199.6 199.6	427.3 423.5 423.5	1,021.8 1,030.7 1,030.7	2,484.3 2,495.1 2,495.1	5,751.3 5,703.2 5,703.2	15,476.1 15,111.7 15,111.7	881.9 875.8 875.8
Diseases of heart (I00-I09,I11,I13,I20-I51) 1999	265.9	13.7	1.2	0.7	2.8	8.1	30.3	97.7	274.3	709.5	1,861.8	6,032.5	267.8
1998 (modified) ⁴ 1998 ⁵	264.4 268.2	15.9 16.1	1.4 1.4	0.8 0.8	2.8 2.8	8.2 8.3	30.1 30.5	100.0 101.4	282.8 286.9	725.1 735.5	1,870.4 1,897.3	5,924.3 6,009.6	268.5 272.4
Aalignant neoplasms (C00-C97) 1999	201.6	1.8	2.8	2.6	4.6	10.6	37.3	130.4	380.8	836.2	1.340.0	1.796.7	202.7
1998 (modified) ⁴ 1998 ⁵	201.7 200.3	2.1 2.1	2.4 2.4	2.6 2.6	4.6 4.6	11.4 11.3	38.5 38.2	133.2 132.3	386.4 383.8	847.0 841.3	1,335.3 1,326.3	1,761.3 1,749.4	203.8 202.4
erebrovascular diseases (160-169) 1999	61.4	2.7	0.3	0.2	0.5	1.5	5.7	15.5	41.3	132.2	472.8	1,606.7	61.8
1998 (modified) ⁴ 1998 ⁵	61.9 58.5	8.3 7.8	0.4 0.4	0.2 0.2	0.5 0.5	1.8 1.7	6.2 5.9	17.5 16.5	45.0 42.5	137.4 129.8	481.0 454.3	1,582.6 1,494.7	63.0 59.5
Chronic lower respiratory diseases (J40-J47) 1999	45.5	0.9	0.4	0.4	0.6	0.9	2.0	8.7	48.3	179.2	400.4	642.7	45.8
1998 (modified) ⁴ 1998 ⁵	43.6 41.6	1.0 1.0	0.3 0.3	0.4 0.4	0.6 0.6	0.8 0.8	2.1 2.0	8.6 8.2	46.9 44.8	177.1 169.0	383.2 365.7	596.4 569.2	44.0 42.0
ccidents (unintentional injuries) (V01-X59,Y85-Y86)	35.9	22.1	12.6	7.8	36.2	31.3	34.0	32.5	31.1	45.1	101.1	280.9	35.9
1998 (modified) ⁴	36.0 34.9	19.7	12.9	8.5 8.2	36.8	31.7	34.6	31.7	31.5	45.5	101.3 98.3	272.8	36.1 35.0
iabetes mellitus (E10-E14)		19.1	12.5		35.7	30.8	33.6	30.8	30.6	44.2		264.7	
1999 1998 (modified) ⁴	25.1 24.2	*	*	0.1 0.1	0.4 0.4	1.5 1.6	4.3 4.2	13.2 12.8	38.9 38.7	92.8 90.3	179.1 173.2	315.6 297.3	25.2 24.4
1998 ⁵ Ifluenza and pneumonia (J10-J18)	24.0			0.1	0.4	1.6	4.2	12.7	38.4	89.6	171.8	294.9	24.2
1999 1998 (modified) ⁴ 1998 ⁵	23.4 23.7	8.4 8.2	0.9 0.7	0.2 0.2	0.5 0.4	0.9 1.0	2.4 2.2	4.7 4.4	11.2 11.9	37.7 41.8	158.0 168.5	748.0 742.8	23.6 24.2
Izheimer's disease (G30)	34.0	11.7	1.0	0.3	0.6	1.4	3.1	6.3	17.0	59.8	241.4	1,063.9	34.6
1999 1998 (modified) ⁴ , ⁶	16.3 13.1	*	*	*	*	*	*	0.2 0.2	1.9 1.7	17.6 16.2	130.4 108.8	598.3 465.3	16.5 13.4
1998 ⁵ lephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	8.4	*	*	*	*	*	*	0.1	1.1	10.4	70.0	299.5	8.6
1999	13.0 12.0	4.3 4.6	*	0.1 0.1	0.2 0.1	0.7 0.5	1.6 1.2	4.1 3.3	12.2 9.9	37.6 32.0	98.2 93.4	267.5 267.6	13.1 12.1
1998 ⁵ epticemia (A40-A41)	9.7	3.7	*	0.1	0.1	0.4	1.0	2.7	8.0	26.0	75.8	217.2	9.8
1999	11.3 10.5	7.4 6.8	0.6 0.7	0.2 0.1	0.3 0.4	0.7 0.8	1.8 1.8	4.7 4.3	11.6 11.0	31.6 29.0	79.9 74.3	219.5 209.5	11.3 10.6
1998 ⁵	8.8	5.7	0.6	0.1	0.3	0.7	1.5	3.6	9.2	24.3	62.2	175.3	8.9
1999	10.7 11.3	*	*	0.6 0.8	10.3 11.1	13.5 13.7	14.4 15.3	14.2 14.7	12.4 13.1	13.6 14.0	18.3 19.6	19.2 20.9	10.7 11.3
1998 (modified) ⁴	11.3	*	*	0.8	11.1	13.8	15.4	14.7	13.1	14.1	19.7	21.0	11.3
nronic liver disease and cirrhosis (K70,K73-K74)	9.6	*	*	*	0.1	1.1	7.4	17.8	24.1	31.0	32.1	23.1	9.7
1998 (modified) ⁴	9.6 9.3	*	*	*	0.1 0.1	1.3 1.3	7.9 7.6	17.2 16.6	24.2 23.3	31.8 30.7	32.1 31.0	22.7 21.9	9.8 9.5
ssential (primary) hypertension and hypertensive renal disease (I10,I12)	0.5					0.0	0.7	0.5	F 2	45.4	40.0	454.0	
1999	6.2 5.9	*	*	*	*	0.2 0.1	0.7 0.6	2.2 1.9	5.6 5.6	15.4 15.2	43.8 42.9	151.3 143.7	6.3 6.0
1998 ⁵	5.3	*	*	*	*	0.1	0.5	1.7	5.0	13.6	38.3	128.4	5.4

Table 8. Death rates by age and age-adjusted death rates for the 15 leading causes of death in 1999: United States, 1998, modified 1998, and 1999 - Con.

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes]

						А	ge						
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992) and year	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Age- adjusted rate ³
Assault (homicide) (X85-Y09,Y87.1)													
1999	6.2	8.7	2.5	1.1	13.2	11.2	7.2	4.7	3.1	2.6	2.5	2.4	6.2
1998 (modified) ⁴	6.6	8.5	2.6	1.2	14.6	11.5	7.7	4.9	3.3	2.5	2.7	2.4	6.5
1998 ⁵	6.6	8.5	2.6	1.2	14.6	11.5	7.7	4.9	3.3	2.5	2.7	2.4	6.5
Aortic aneurysm and dissection (I71)													
1999	5.8	*	*	*	0.1	0.2	0.7	1.8	6.1	22.0	48.9	79.9	5.8
1998 (modified) ⁴	6.0	*	*	*	0.1	0.3	0.7	1.7	6.4	23.5	51.6	79.9	6.1
1998 ⁵	6.0	*	*	*	0.1	0.3	0.7	1.7	6.4	23.5	51.5	79.8	6.1

^{*} Figure does not meet standards of reliability or precision, see Technical notes.

Category not applicable.

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

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

Death rates for "Under I year (based on population estimates) direction in the little of computation, see Technical notes.

Age-specific and age-adjusted rates were modified with the comparability ratios shown in table III of the Technical notes.

The 1998 cause-of-death data are tabulated using ICD-9 codes that approximate ICD-10 categories as shown in table III of the Technical notes.

For a discussion of 1998-1999 comparisons, see Technical notes.

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Table 9. Number of deaths from 113 selected causes by age: United States, 1999

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
All causes	2,391,399	27,937	5,249	7,595	30,656	41,066	89,256	152,974	238,979	452,600	698,590	646,141	356
Salmonella infections (A01-A02)		3	-	-	2	-	2	2	3	7	12	7	-
Shigellosis and amebiasis (A03,A06)	10	-	1	1	-	-	1	-	1	1	1	4	-
Certain other intestinal infections (A04,A07-A09)	1,108	12	8	3	5	6	7	23	49	176	390	429	-
Tuberculosis (A16-A19)	930	2	2	3	11	19	57	106	130	173	253	173	1
Respiratory tuberculosis (A16)		1	1	1	8	14	45	76	109	139	216	153	1
Other tuberculosis (A17-A19)	166	1	1	2	3	5	12	30	21	34	37	20	-
Whooping cough (A37)	7	7	-	-	-	-	-	-	-	-	-	-	-
Scarlet fever and erysipelas (A38,A46)		-	-	-	-	-	-	-	-	2	1	2	-
Meningococcal infection (A39)	227	32	30	25	39	23	27	17	4	9	13	8	-
Septicemia (A40-A41)		283	87	77	121	275	812	1,685	2,714	5,750	9.710	9.166	-
Syphilis (A50-A53)		2	-	-	-	1	1	5	4	6	10	4	_
Acute poliomyelitis (A80)		_	_	_	_	_		-		-			_
Arthropod-borne viral encephalitis (A83-A84,A85.2)		_	_	_	_	_	_	_	_	2	_	1	_
Measles (B05)		1	_	_	_	_	_	_	1	_	_		_
Viral hepatitis (B15-B19)		2	3	3	14	88	722	1,506	786	881	651	197	_
Human immunodeficiency virus (HIV) disease	4,000	_	O	O		00	122	1,500	700	001	051	137	
(B20-B24)	14,802	14	24	66	198	2,729	6,232	3,907	1,149	398	70	14	1
Malaria (B50-B54)		1	24	-	130	2,723	0,232	5,307	1,143	2	70	14	
Other and unspecified infectious and parasitic diseases	,	· ·	=	_	_	2		_		2	_	_	_
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)	7,279	203	81	79	90	242	545	836	898	1,443	1,739	1,123	_
Malignant neoplasms (C00-C97)		68	418	1,012	1,724	4,005	16,732	46,681	89,067	152,338	162,770	75,014	9
Malignant neoplasms of lip, oral cavity and pharynx	0.0,000	00		.,0.2	.,	.,000	.0,.02	.0,00.	00,007	.02,000	.02,770	. 0,0	ŭ
(C00-C14)	7,486	_	2	6	27	43	291	1,061	1,616	1,896	1,744	800	_
Malignant neoplasm of esophagus (C15)		_	-	-		37	293	1,262	2,531	3,694	2,986	1,114	1
Malignant neoplasm of stomach (C16)		_	_	1	13	136	505	1,101	1,860	3,152	3,860	2,083	
Malignant neoplasms of colon, rectum and anus	12,711				10	100	303	1,101	1,000	0,102	0,000	2,000	
(C18-C21)	57,155	1	_	1	49	283	1,333	4,057	7,967	14,249	17,929	11,286	_
Malignant neoplasms of liver and intrahepatic bile ducts		'		'	43	200	1,000	4,037	7,307	14,243	17,323	11,200	
(C22)		8	29	11	43	78	444	1,492	2,091	3,491	3,425	1,270	
Malignant neoplasm of pancreas (C25)		1	29	111	3	55	594	2,353	4,707	8,293	8,933	4.142	1
Malignant neoplasm of larynx (C32)		'	-	-	-	6	78	405	904	1,239	892	291	'
	3,013	-	-	-	-	0	70	405	904	1,239	092	291	-
Malignant neoplasms of trachea, bronchus and lung	150 150			_	00	170	0.704	11 404	00.044	E4 040	44.004	10.000	0
(C33-C34)		1	-	5	20	179	2,724	11,434	29,344	51,848	44,261	12,339	2
Malignant melanoma of skin (C43)		1	-	1	39	194	625	1,120	1,263	1,652	1,639	681	-
Malignant neoplasm of breast (C50)		-	1	1	13	439	2,741	6,174	7,399	9,109	9,651	6,000	
Malignant neoplasm of cervix uteri (C53)	4,205	-	-	-	12	217	699	914	769	696	568	329	1
Malignant neoplasms of corpus uteri and uterus, part	0.400						4.40	400	4 0 4 0	4 007	0.000	200	
unspecified (C54-C55)		-	-	-	2	23	142	468	1,019	1,807	2,008	999	-
Malignant neoplasm of ovary (C56)		-	1	2	27	77	496	1,549	2,426	3,612	3,875	1,562	-
Malignant neoplasm of prostate (C61)	31,729	1	-	-	1	2	33	374	1,946	7,316	13,435	8,620	1
Malignant neoplasms of kidney and renal pelvis													
(C64-C65)		2	19	33	17	54	342	1,147	2,111	3,076	3,010	1,305	-
Malignant neoplasm of bladder (C67)	11,911	-	-	1	1	16	100	463	1,244	2,923	4,317	2,845	1
Malignant neoplasms of meninges, brain and other													
parts of central nervous system (C70-C72)	12,765	10	113	308	218	444	1,065	1,880	2,453	3,119	2,492	663	-
Malignant neoplasms of lymphoid, hematopoietic and													
related tissue (C81-C96)		30	137	351	720	960	1,913	3,950	7,554	14,332	18,089	8,282	-
Hodgkin's disease (C81)		-	1	9	94	148	165	165	178	283	262	98	-
Non-Hodgkin's lymphoma (C82-C85)		2	16	37	144	289	789	1,741	3,154	5,848	7,554	3,228	-
Leukemia (C91-C95)	21,014	27	119	305	482	500	799	1,370	2,516	5,012	6,460	3,424	-
Multiple myeloma and immunoproliferative neoplasms													
(C88,C90)	11,016	-	-	-	-	22	156	665	1,694	3,172	3,788	1,519	-
Other and unspecified malignant neoplasms of	*								•		•	*	
lymphoid, hematopoietic and related tissue (C96)	83	1	1	-	-	1	4	9	12	17	25	13	-

Table 9. Number of deaths from 113 selected causes by age: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
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)	66,251	14	116	291	519	762	2,314	5,477	9,863	16,834	19,656	10,403	2
In situ neoplasms, benign neoplasms and neoplasms of													
uncertain or unknown behavior (D00-D48)	13,227	58	63	101	98	171	342	662	1,133	2,684	4,472	3,443	-
Anemias (D50-D64)	4,503	12	30	53	121	160	194	232	231	486	1,164	1,820	-
Diabetes mellitus (E10-E14)	68,399	2	8	32	155	582	1,942	4,735	9,097	16,908	21,757	13,178	3
Nutritional deficiencies (E40-E64)	4,289	9	2	1	8	12	64	106	170	429	1,248	2,240	-
Malnutrition (E40-E46)	3,985	7	2	1	7	11	61	99	154	407	1,159	2,077	-
Other nutritional deficiencies (E50-E64)	304	2	-	-	1	1	3	7	16	22	89	163	-
Meningitis (G00,G03)	850	116	45	27	41	48	76	108	90	115	122	62	-
Parkinson's disease (G20-G21)	14,593	1	-	-	2	2	5	43	242	2,020	7,110	5,168	-
Alzheimer's disease (G30)	44,536	-	-	-	1	-	7	60	448	3,204	15,836	24,980	-
Major cardiovascular diseases (I00-I78)	950,314	644	234	354	1,315	3,873	17,010	42,512	77,833	163,428	302,552	340,510	49
Diseases of heart (I00-I09,I11,I13,I20-I51)	725,192	524	183	277	1,069	3,066	13,600	34,994	64,167	129,253	226,152	251,860	47
Acute rheumatic fever and chronic rheumatic heart													
diseases (100-109)	3,676	6	1	5	13	42	124	245	411	854	1,227	748	-
Hypertensive heart disease (I11)	22,702	1	-	-	33	210	964	1,930	2,537	3,517	5,830	7,679	1
Hypertensive heart and renal disease (I13)	3,327	-	-	2	6	21	114	156	262	470	1,087	1,209	-
Ischemic heart diseases (I20-I25)	529,659	27	5	22	137	1,014	7,751	24,775	48,377	98,840	169,296	179,376	39
Acute myocardial infarction (I21-I22)	199,454	13	2	11	60	434	3,249	10,823	21,406	41,441	64,711	57,297	7
Other acute ischemic heart diseases (I24)	3,232	3	1	1	3	6	81	252	448	674	855	908	-
Other forms of chronic ischemic heart disease													
(120,125)	326,973	11	2	10	74	574	4,421	13,700	26,523	56,725	103,730	121,171	32
Atherosclerotic cardiovascular disease, so	,						,	,	,	,		,	
described (I25.0)	71,926	-	1	1	13	160	1,488	4,737	8,383	13,395	20,321	23,403	24
All other forms of chronic ischemic heart disease	,						,	,	,	,		,	
(120, 125.1-125.9)	255,047	11	1	9	61	414	2,933	8,963	18,140	43,330	83,409	97,768	8
Other heart diseases (I26-I51)	165.828	490	177	248	880	1.779	4.647	7.888	12.580	25.572	48,712	62.848	7
Acute and subacute endocarditis (I33)	1,116	2	1	-	7	30	114	143	171	240	289	119	-
Diseases of pericardium and acute myocarditis													
(130-131,140)	890	27	25	21	32	50	114	105	125	146	160	85	-
Heart failure (I50)	54,913	11	10	12	31	65	272	782	2,107	6,524	16,771	28,327	1
All other forms of heart disease	,								,	,		,	
(126-128,134-138,142-149,151)	108,909	450	141	215	810	1,634	4,147	6,858	10,177	18,662	31,492	34,317	6
Essential (primary) hypertension and hypertensive	,					,	,	-,	-,	-,	- , -	- ,-	
renal disease (I10,I12)	16.968	3	3	1	13	78	313	799	1,318	2.799	5.324	6.317	-
Cerebrovascular diseases (I60-I69)	167,366	103	46	65	182	580	2,574	5,563	9,652	24,092	57,427	67,080	2
Atherosclerosis (I70)	14,979	2	-	-	2	8	45	185	486	1,476	4,385	8,390	-
Other diseases of circulatory system (I71-I78)	25,809	12	2	11	49	141	478	971	2.210	5.808	9.264	6.863	-
Aortic aneurysm and dissection (I71)	15,807	1	1	3	31	93	329	638	1.437	4.001	5.936	3,337	-
Other diseases of arteries, arterioles and capillaries	,								.,	.,	-,	-,	
(172-178)	10,002	11	1	8	18	48	149	333	773	1.807	3.328	3,526	_
Other disorders of circulatory system (I80-I99)	4.025	23	1	2	30	93	271	378	445	692	1,117	972	1
Influenza and pneumonia (J10-J18)	63,730	320	130	93	179	339	1,063	1,697	2,625	6,861	19,192	31,229	2
Influenza (J10-J11)	1,665	13	12	11	11	9	16	26	71	164	451	881	-
Pneumonia (J12-J18)	62,065	307	118	82	168	330	1,047	1,671	2,554	6,697	18,741	30,348	2
Other acute lower respiratory infections (J20-J22)	540	63	25	5	5	4	11	15	21	35	107	249	_
Acute bronchitis and bronchiolitis (J20-J21)	388	62	24	4	5	3	10	14	18	29	69	150	_
Unspecified acute lower respiratory infection (J22)	152	1	1	1	-	1	1	1	3	6	38	99	_
Chronic lower respiratory diseases (J40-J47)	124,181	36	54	139	209	330	890	3,110	11,297	32,644	48,635	26,833	4
Bronchitis, chronic and unspecified (J40-J42)	1.172	20	19	4	7	11	18	38	97	173	339	446	-
Emphysema (J43)	17,787	1	-	1	1	9	97	468	2,019	5,656	6,955	2,580	_
Asthma (J45-J46)	4,657	5	27	126	182	262	447	607	583	773	925	720	-
Other chronic lower respiratory diseases (J44,J47)	100.565	10	8	8	19	48	328	1.997	8.598	26,042	40,416	23,087	4
Pneumoconioses and chemical effects (J60-J66,J68)	1.113	-	3	-	19	40	320 7	1,997	57	20,042	503	25,067	-
Pneumonitis due to solids and liquids (J69)	15,268	16	12	16	32	78	166	284	586	1.754	5.030	7.294	-
i ricumonina dae to solida and liquida (003)	15,200	10	12	10	32	70	100	204	300	1,754	5,050	1,234	-

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Table 9. Number of deaths from 113 selected causes by age: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
Other diseases of respiratory system (J00-J06,J30-J39,													
J67,J70-J98)	25,031	252	91	76	115	257	576	1,219	2,260	5,409	8,646	6,130	-
Peptic ulcer (K25-K28)	4,604	2	2	-	2	21	123	255	422	836	1,500	1,439	2
Diseases of appendix (K35-K38)	390	3	2	26	5	6	24	49	48	69	96	62	-
Hernia (K40-K46)	1,464	44	3	2	3	16	39	55	107	215	451	529	-
Chronic liver disease and cirrhosis (K70,K73-K74)	26,259	5	2	2	26	407	3,302	6,368	5,637	5,642	3,901	965	2
Alcoholic liver disease (K70)	11,958	-	-	-	8	259	2,186	3,802	2,859	1,935	789	118	2
Other chronic liver disease and cirrhosis (K73-K74)	14,301	5	2	2	18	148	1,116	2,566	2,778	3,707	3,112	847	-
Cholelithiasis and other disorders of gallbladder													
(K80-K82)	2,830	2	-	1	10	16	59	124	203	475	948	992	-
Nephritis, nephrotic syndrome and nephrosis													
(N00-N07,N17-N19,N25-N27)	35,525	166	15	31	72	252	707	1,480	2,864	6,841	11,927	11,170	-
Acute and rapidly progressive nephritic and nephrotic													
syndrome (N00-N01,N04)	182	3	2	5	2	5	5	11	16	37	62	34	-
Chronic glomerulonephritis, nephritis and nephropathy,													
not specified as acute or chronic, and renal sclerosis,													
unspecified (N02-N03,N05-N07,N26)	589		.1	1	7	15	28	44	60	101	200	132	-
Renal failure (N17-N19)	34,719	163	12	25	63	230	673	1,422	2,784	6,697	11,652	10,998	-
Other disorders of kidney (N25,N27)	35	-			-	2	1	3	4	6	13	6	-
Infections of kidney (N10-N12,N13.6,N15.1)	846	3	1	1	4	9	28	55	59	133	242	311	-
Hyperplasia of prostate (N40)	430	-	-	-	-	-	-	1	13	47	160	209	-
Inflammatory diseases of female pelvic organs	100	2	1		0	0	10	6	10	15	20	10	
(N70-N76)	108 406	_		-	3 97	6	12 121	-	13	15	32	18	-
Pregnancy, childbirth and the puerperium (O00-O99)				-	8	181 15	121 8	7					-
Pregnancy with abortive outcome (000-007) Other complications of pregnancy, childbirth and the	31			-	0	15	0	-					-
puerperium (O10-O99)	375			_	89	166	113	7					_
Certain conditions originating in the perinatal period	373				03	100	110	,					
(P00-P96)	14,259	14,084	92	43	16	7	3	2	3	2	1	1	5
Congenital malformations, deformations and	,200	,	02	.0		•	Ü	_	· ·	_	·	•	· ·
chromosomal abnormalities (Q00-Q99)	10,393	5,473	549	428	434	465	552	647	557	469	491	326	2
Symptoms, signs and abnormal clinical and laboratory	,	,											
findings, not elsewhere classified (R00-R99)	26,672	3,538	236	137	609	1,095	2,062	2,151	1,860	2,698	4,413	7,798	75
All other diseases (Residual)	171,683	1,148	647	921	1,771	3,062	7,989	12,383	14,390	25,165	45,598	58,599	10
Accidents (unintentional injuries) (V01-X59,Y85-Y86)	97,860	845	1,898	3,091	13,656	11,890	15,231	11,639	7,285	8,208	12,282	11,729	106
Transport accidents (V01-V99,Y85)	46,423	189	712	1,975	10,689	7,434	7,553	5,645	3,812	3,579	3,468	1,330	37
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)	42,401	184	650	1,771	10,128	6,778	6,738	4,972	3,370	3,276	3,243	1,261	30
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,	2,118	4	48	128	362	317	408	304	182	145	159	54	7
V88.9,V89.1,V89.3,V89.9) Water, air and space, and other and unspecified	2,110	4	40	120	302	317	400	304	102	143	159	34	/
transport accidents and their sequelae													
(V90-V99,Y85)	1,904	1	14	76	199	339	407	369	260	158	66	15	_
Nontransport accidents (W00-X59,Y86)	51,437	656	1,186	1,116	2,967	4,456	7,678	5,994	3.473	4.629	8,814	10,399	69
Falls (W00-W19)	13,162	12	55	53	2,907	343	645	824	887	1,663	3,856	4,578	4
Accidental discharge of firearms (W32-W34)	824	-	12	76	251	143	136	92	48	33	23	10	-
Accidental drowning and submersion (W65-W74)	3,529	68	490	369	647	446	475	370	219	185	158	68	34
Accidental exposure to smoke, fire and flames	0,020		100	000	0.7	1.13	., 5	0.0	2.0	100	.50	50	O F
(X00-X09)	3,348	41	302	262	201	282	421	368	319	416	487	245	4
Accidental poisoning and exposure to noxious	-,												-
substances (X40-X49)	12,186	12	34	40	964	2,355	4,549	2,844	668	300	265	143	12

Table 9. Number of deaths from 113 selected causes by age: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
Other and unspecified nontransport accidents and													
their sequelae (W20-W31,W35-W64,W75-W99,													
X10-X39,X50-X59,Y86)	18,388	523	293	316	662	887	1,452	1,496	1,332	2,032	4,025	5,355	15
Intentional self-harm (suicide) (X60-X84,Y87.0)	29,199			244	3,901	5,106	6,466	5,081	2,896	2,471	2,217	801	16
Intentional self-harm (suicide) by discharge of firearms													
(X72-X74)	16,599			103	2,315	2,621	3,097	2,677	1,860	1,791	1,606	524	5
Intentional self-harm (suicide) by other and unspecified													
means and their sequelae (X60-X71,X75-X84,													
Y87.0)	12,600	111	:::	141	1,586	2,485	3,369	2,404	1,036	680	611	277	11
Assault (homicide) (X85-Y09,Y87.1)	16,889	331	376	432	4,998	4,231	3,206	1,668	722	473	304	99	49
Assault (homicide) by discharge of firearms		_											
(X93-X95)	10,828	8	50	224	4,038	3,048	1,868	893	373	193	95	23	15
Assault (homicide) by other and unspecified means and	0.004	200	200	000	000	4.400	4 000		0.40	000	200	70	0.4
their sequelae (X85-X92,X96-Y09,Y87.1)	6,061	323	326	208	960	1,183	1,338	775	349	280	209	76	34
Legal intervention (Y35,Y89.0)	398	-	-	1	67	136	121	50	20	2	1	-	-
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	3,917	55	43	49	430	743	1,295	793	222	114	96	58	19
Discharge of firearms, undetermined intent (Y22-Y24)	324	-	3	12	127	51	57	28	14	15	13	4	-
Other and unspecified events of undetermined intent													
and their sequelae (Y10-Y21,Y25-Y34,Y87.2,	0.500	55	40	37	303	692	1 000	705	000	00	00	- 1	10
Y89.9)	3,593		40		303	692	1,238	765 2	208	99 8	83 8	54 3	19
Operations of war and their sequelae (Y36,Y89.1)	23	-	-	-	-	-	1	2	1	8	8	3	-
Complications of medical and surgical care (Y40-Y84,Y88)	2,823	54	30	18	36	78	152	214	315	586	811	529	
(140-104,100)	2,023	54	30	10	30	70	152	214	315	300	011	529	-

⁻ Quantity zero.

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States—California, Florida, Illinois, Indiana, Kentucky, Maine, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

^{...} Category not applicable.

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Table 10. Death rates for 113 selected causes by age: United States, 1999

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
All causes	877.0	731.4	34.7	19.2	81.2	108.3	199.2	427.3	1,021.8	2,484.3	5,751.3	15,476.1
Salmonella infections (A01-A02)	0.0	*	*	*	*	*	*	*	*	*	*	*
Shigellosis and amebiasis (A03,A06)	*	*	*	*	*	*	*	*	*	*	*	*
Certain other intestinal infections (A04,A07-A09)	0.4	*	*	*	*	*	*	0.1	0.2	1.0	3.2	10.3
Tuberculosis (A16-A19)	0.3	*	*	*	*	*	0.1	0.3	0.6	0.9	2.1	4.1
Respiratory tuberculosis (A16)	0.3	*	*	*	*	*	0.1	0.2	0.5	0.8	1.8	3.7
		*		*			0.1					
Other tuberculosis (A17-A19)	0.1	_	_	_	_	_	_	0.1	0.1	0.2	0.3	0.5
Whooping cough (A37)	*			*	*			*				*
Scarlet fever and erysipelas (A38,A46)		*	*	*	*	*	*		*	*	*	*
Meningococcal infection (A39)	0.1	0.8	0.2	0.1	0.1	0.1	0.1	*	*	*	*	*
Septicemia (A40-A41)	11.3	7.4	0.6	0.2	0.3	0.7	1.8	4.7	11.6	31.6	79.9	219.5
Syphilis (A50-A53)	0.0	*	*	*	*	*	*	*	*	*	*	*
Acute poliomyelitis (A80)	*	*	*	*	*	*	*	*	*	*	*	*
Arthropod-borne viral encephalitis (A83-A84,A85.2)	*	*	*	*	*	*	*	*	*	*	*	*
Measles (B05)	*	*	*	*	*	*	*	*	*	*	*	*
	1.0	*	*	*	*	0.0	1.0	4.2	2.4	4.0	E 4	4.7
Viral hepatitis (B15-B19)	1.8	=	==	**		0.2	1.6	4.2	3.4	4.8	5.4	4./
Human immunodeficiency virus (HIV) disease												
(B20-B24)	5.4	*	0.2	0.2	0.5	7.2	13.9	10.9	4.9	2.2	0.6	*
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)	2.7	5.3	0.5	0.2	0.2	0.6	1.2	2.3	3.8	7.9	14.3	26.9
Malignant neoplasms (C00-C97)	201.6	1.8	2.8	2.6	4.6	10.6	37.3	130.4	380.8	836.2	1,340.0	1,796.7
Malignant neoplasms of lip, oral cavity, and pharynx	201.0	1.0	2.0	2.0	4.0	10.0	37.3	100.4	300.0	000.2	1,040.0	1,730.7
	2.7	*	*	*	0.1	0.1	0.6	3.0	6.9	10.4	111	10.0
(C00-C14)		*		*	0.1						14.4	19.2
Malignant neoplasm of esophagus (C15)	4.4				*	0.1	0.7	3.5	10.8	20.3	24.6	26.7
Malignant neoplasm of stomach (C16)	4.7	*	*	*	*	0.4	1.1	3.1	8.0	17.3	31.8	49.9
Malignant neoplasms of colon, rectum and anus												
(C18-C21)	21.0	*	*	*	0.1	0.7	3.0	11.3	34.1	78.2	147.6	270.3
Malignant neoplasms of liver and intrahepatic bile ducts												
(Č22)	4.5	*	0.2	*	0.1	0.2	1.0	4.2	8.9	19.2	28.2	30.4
Malignant neoplasm of pancreas (C25)	10.7	*	*	*	*	0.1	1.3	6.6	20.1	45.5	73.5	99.2
Malignant neoplasm of larynx (C32)	1.4	*	*	*	*	*	0.2	1.1	3.9	6.8	7.3	7.0
	1.4						0.2	1.1	3.9	0.0	7.5	7.0
Malignant neoplasm of trachea, bronchus and lung	55.0				0.4	0.5	0.4	04.0	405.5	0040	004.4	005.5
(C33-C34)	55.8				0.1	0.5	6.1	31.9	125.5	284.6	364.4	295.5
Malignant melanoma of skin (C43)	2.6	*	*	*	0.1	0.5	1.4	3.1	5.4	9.1	13.5	16.3
Malignant neoplasm of breast (C50)	15.2	*	*	*	*	1.2	6.1	17.2	31.6	50.0	79.5	143.7
Malignant neoplasm of cervix uteri (C53)	1.5	*	*	*	*	0.6	1.6	2.6	3.3	3.8	4.7	7.9
Malignant neoplasms of corpus uteri and uterus, part												
unspecified (C54-C55)	2.4	*	*	*	*	0.1	0.3	1.3	4.4	9.9	16.5	23.9
Malignant neoplasm of ovary (C56)	5.0	*	*	*	0.1	0.2	1.1	4.3	10.4	19.8	31.9	37.4
Malignant neoplasm of prostate (C61)	11.6	*	*	*	V. I *	V.Z	0.1	1.0	8.3	40.2	110.6	206.5
	11.0						0.1	1.0	6.3	40.2	110.6	200.5
Malignant neoplasms of kidney and renal pelvis												
(C64-C65)	4.1	*	•	0.1	*	0.1	0.8	3.2	9.0	16.9	24.8	31.3
Malignant neoplasm of bladder (C67)Malignant neoplasms of meninges, brain and other	4.4	*	*	*	*	*	0.2	1.3	5.3	16.0	35.5	68.1
parts of central nervous system (C70-C72) Malignant neoplasms of lymphoid, hematopoietic and	4.7	*	0.7	0.8	0.6	1.2	2.4	5.3	10.5	17.1	20.5	15.9
related tissue (C81-C96)	20.7	0.8	0.9	0.9	1.9	2.5	4.3	11.0	32.3	78.7	148.9	198.4
Hodgkin's disease (C81)	0.5	*	*	*	0.2	0.4	0.4	0.5	0.8	1.6	2.2	2.3
Non-Hodgkin's lymphoma (C82-C85)	8.4	*	*	0.1	0.4	0.4	1.8	4.9	13.5	32.1	62.2	77.3
		0.7	0.0									
Leukemia (C91-C95)	7.7	0.7	0.8	0.8	1.3	1.3	1.8	3.8	10.8	27.5	53.2	82.0
Multiple myeloma and immunoproliferative neoplasms												
(C88,C90)	4.0	*	*	*	*	0.1	0.3	1.9	7.2	17.4	31.2	36.4
Other and unspecified malignant neoplasms of												
lymphoid, hematopoietic and related tissue (C96)	0.0										0.2	

Table 10. Death rates for 113 selected causes by age: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
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)	24.3	*	0.8	0.7	1.4	2.0	5.2	15.3	42.2	92.4	161.8	249.2
In situ neoplasms, benign neoplasms and neoplasms of												
uncertain or unknown behavior (D00-D48)	4.9	1.5	0.4	0.3	0.3	0.5	0.8	1.8	4.8	14.7	36.8	82.5
Anemias (D50-D64)	1.7	*	0.2	0.1	0.3	0.4	0.4	0.6	1.0	2.7	9.6	43.6
Diabetes mellitus (E10-E14)	25.1	*	*	0.1	0.4	1.5	4.3	13.2	38.9	92.8	179.1	315.6
Nutritional deficiencies (E40-E64)	1.6	*	*	*	*	*	0.1	0.3	0.7	2.4	10.3	53.7
Malnutrition (E40-E46)	1.5	*	*	*	*	*	0.1	0.3	0.7	2.2	9.5	49.7
Other nutritional deficiencies (E50-E64)	0.1	*	*	*	*	*	*	*	*	0.1	0.7	3.9
Meningitis (G00,G03)	0.3	3.0	0.3	0.1	0.1	0.1	0.2	0.3	0.4	0.6	1.0	1.5
Parkinson's disease (G20-G21)	5.4	*	*	*	*	*	*	0.1	1.0	11.1	58.5	123.8
Alzheimer's disease (G30)	16.3	*	*	*	*	*	*	0.2	1.9	17.6	130.4	598.3
Major cardiovascular diseases (I00-I78)	348.5	16.9	1.5	0.9	3.5	10.2	38.0	118.7	332.8	897.1	2,490.8	8,155.8
Diseases of heart (I00-I09,I11,I13,I20-I51)	265.9	13.7	1.2	0.7	2.8	8.1	30.3	97.7	274.3	709.5	1,861.8	6,032.5
Acute rheumatic fever and chronic rheumatic heart												
disease (100-109)	1.3	*	*	*	*	0.1	0.3	0.7	1.8	4.7	10.1	17.9
Hypertensive heart disease (I11)	8.3	*	*	*	0.1	0.6	2.2	5.4	10.8	19.3	48.0	183.9
Hypertensive heart and renal disease (I13)	1.2	*	*	*	*	0.1	0.3	0.4	1.1	2.6	8.9	29.0
Ischemic heart disease (I20-I25)	194.2	0.7	*	0.1	0.4	2.7	17.3	69.2	206.8	542.5	1,393.8	4,296.3
Acute myocardial infarction (I21-I22)	73.1	*	*	*	0.2	1.1	7.3	30.2	91.5	227.5	532.7	1,372.4
Other acute ischemic heart diseases (I24)	1.2	*	*	*	*	*	0.2	0.7	1.9	3.7	7.0	21.7
Other forms of chronic ischemic heart disease												
(120,125)	119.9	*	*	*	0.2	1.5	9.9	38.3	113.4	311.4	854.0	2,902.2
Atherosclerotic cardiovascular disease, so												
described (I25.0)	26.4	*	*	*	*	0.4	3.3	13.2	35.8	73.5	167.3	560.5
All other forms of chronic ischemic heart disease												
(I20, I25.1-I25.9)	93.5	*	*	*	0.2	1.1	6.5	25.0	77.6	237.8	686.7	2,341.7
Other heart diseases (I26-I51)	60.8	12.8	1.2	0.6	2.3	4.7	10.4	22.0	53.8	140.4	401.0	1,505.3
Acute and subacute endocarditis (I33)	0.4	*	*	*	*	0.1	0.3	0.4	0.7	1.3	2.4	2.9
Diseases of pericardium and acute myocarditis												
(130-131,140)	0.3	0.7	0.2	0.1	0.1	0.1	0.3	0.3	0.5	8.0	1.3	2.0
Heart failure (I50)	20.1	*	*	*	0.1	0.2	0.6	2.2	9.0	35.8	138.1	678.5
All other forms of heart disease												
(126-128,134-138,142-149,151)	39.9	11.8	0.9	0.5	2.1	4.3	9.3	19.2	43.5	102.4	259.3	821.9
Essential (primary) hypertension and hypertensive												
renal disease (I10,I12)	6.2	*	*	*	*	0.2	0.7	2.2	5.6	15.4	43.8	151.3
Cerebrovascular diseases (I60-I69)	61.4	2.7	0.3	0.2	0.5	1.5	5.7	15.5	41.3	132.2	472.8	1,606.7
Atherosclerosis (I70)	5.5	*	*	*	*	*	0.1	0.5	2.1	8.1	36.1	201.0
Other diseases of circulatory system (I71-I78)	9.5	*	*	*	0.1	0.4	1.1	2.7	9.4	31.9	76.3	164.4
Aortic aneurysm and dissection (I71)	5.8	*	*	*	0.1	0.2	0.7	1.8	6.1	22.0	48.9	79.9
Other diseases of arteries, arterioles and capillaries												
(172-178)	3.7	*	*	*	*	0.1	0.3	0.9	3.3	9.9	27.4	84.5
Other disorders of circulatory system (I80-I99)	1.5	0.6	*	*	0.1	0.2	0.6	1.1	1.9	3.8	9.2	23.3
Influenza and pneumonia (J10-J18)	23.4	8.4	0.9	0.2	0.5	0.9	2.4	4.7	11.2	37.7	158.0	748.0
Influenza (J10-J11)	0.6	*	*	*	*	*	*	0.1	0.3	0.9	3.7	21.1
Pneumonia (J12-J18)	22.8	8.0	8.0	0.2	0.4	0.9	2.3	4.7	10.9	36.8	154.3	726.9
Other acute lower respiratory infections (J20-J22)	0.2	1.6	0.2	*	*	*	*	*	0.1	0.2	0.9	6.0
Acute bronchitis and bronchiolitis (J20-J21)	0.1	1.6	0.2	*	*	*	*	*	*	0.2	0.6	3.6
Unspecified acute lower respiratory infection (J22)	0.1	*	*	*	*	*	*	*	*	*	0.3	2.4
Chronic lower respiratory diseases (J40-J47)	45.5	0.9	0.4	0.4	0.6	0.9	2.0	8.7	48.3	179.2	400.4	642.7
Bronchitis, chronic and unspecified (J40-J42)	0.4	0.5	*	*	*	*	*	0.1	0.4	0.9	2.8	10.7
Emphysema (J43)	6.5	*	*	*	*	*	0.2	1.3	8.6	31.0	57.3	61.8
Asthma (J45-J46)	1.7	*	0.2	0.3	0.5	0.7	1.0	1.7	2.5	4.2	7.6	17.2
Other chronic lower respiratory diseases (J44,J47)	36.9	*	*	*	*	0.1	0.7	5.6	36.8	142.9	332.7	553.0
Pneumoconioses and chemical effects (J60-J66,J68)	0.4	*	*	*	*	*	*	*	0.2	1.5	4.1	6.1
Pneumonitis due to solids and liquids (J69)	5.6	*	*	*	0.1	0.2	0.4	0.8	2.5	9.6	41.4	174.7

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Table 10. Death rates for 113 selected causes by age: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Other diseases of respiratory system (J00-J06,J30-J39,												
J67,J70-J98)	9.2	6.6	0.6	0.2	0.3	0.7	1.3	3.4	9.7	29.7	71.2	146.8
Peptic ulcer (K25-K28)	1.7	*	*	*	*	0.1	0.3	0.7	1.8	4.6	12.3	34.5
Diseases of appendix (K35-K38)	0.1	*	*	0.1	*	*	0.5	0.1	0.2	0.4	0.8	1.5
Hernia (K40-K46)	0.1	1.2	*	V. I *	*	*	0.1	0.1	0.5	1.2	3.7	12.7
Chronic liver disease and cirrhosis (K70,K73-K74)	9.6	1.∠	*	*	0.1	1.1	7.4	17.8	24.1	31.0	32.1	23.1
		*			0.1							
Alcoholic liver disease (K70)	4.4				*	0.7	4.9	10.6	12.2	10.6	6.5	2.8
Other chronic liver disease and cirrhosis (K73-K74)	5.2	^	•	^	^	0.4	2.5	7.2	11.9	20.3	25.6	20.3
Cholelithiasis and other disorders of gallbladder				*	*	*						
(K80-K82)	1.0	*	*	*	*	*	0.1	0.3	0.9	2.6	7.8	23.8
Nephritis, nephrotic syndrome and nephrosis												
(N00-N07,N17-N19,N25-N27)	13.0	4.3	*	0.1	0.2	0.7	1.6	4.1	12.2	37.6	98.2	267.5
Acute and rapidly progressive nephritic and nephrotic												
syndrome (N00-N01,N04)	0.1	*	*	*	*	*	*	*	*	0.2	0.5	0.8
Chronic glomerulonephritis, nephritis and nephropathy,												
not specified as acute or chronic, and renal sclerosis,												
unspecified (N02-N03,N05-N07,N26)	0.2	*	*	*	*	*	0.1	0.1	0.3	0.6	1.6	3.2
Renal failure (N17-N19)	12.7	4.3	*	0.1	0.2	0.6	1.5	4.0	11.9	36.8	95.9	263.4
Other disorders of kidney (N25,N27)	0.0	*	*	*	*	*	*	*	*	*	*	*
Infections of kidney (N10-N12,N13.6,N15.1)	0.3	*	*	*	*	*	0.1	0.2	0.3	0.7	2.0	7.4
Hyperplasia of prostate (N40)	0.3	*	*	*	*	*	V. I	V.Z *	v.5 *	0.7	1.3	5.0
	0.2									0.5	1.5	5.0
Inflammatory diseases of female pelvic organs	0.0	*	*	*	*	*	*	*	*	*	0.3	*
(N70-N76)												
Pregnancy, childbirth and the puerperium (000-099)	0.1			_	0.3	0.5	0.3	_				
Pregnancy with abortive outcome (O00-O07)	0.0			*	*	*	*	*				
Other complications of pregnancy, childbirth and the												
puerperium (O10-O99)	0.1			*	0.2	0.4	0.3	*				
Certain conditions originating in the perinatal period												
(P00-P96)	5.2	368.7	0.6	0.1	*	*	*	*	*	*	*	*
Congenital malformations, deformations and												
chromosomal abnormalities (Q00-Q99)	3.8	143.3	3.6	1.1	1.1	1.2	1.2	1.8	2.4	2.6	4.0	7.8
Symptoms, signs, and abnormal clinical and laboratory												
findings, not elsewhere classified (R00-R99)	9.8	92.6	1.6	0.3	1.6	2.9	4.6	6.0	8.0	14.8	36.3	186.8
All other diseases (Residual)	63.0	30.1	4.3	2.3	4.7	8.1	17.8	34.6	61.5	138.1	375.4	1,403.5
Accidents (unintentional injuries) (V01-X59,Y85-Y86)	35.9	22.1	12.6	7.8	36.2	31.3	34.0	32.5	31.1	45.1	101.1	280.9
Transport accidents (V01-V99,Y85)	17.0	4.9	4.7	5.0	28.3	19.6	16.9	15.8	16.3	19.6	28.6	31.9
Motor vehicle accidents	17.0	4.5	4.7	5.0	20.0	13.0	10.3	13.0	10.5	13.0	20.0	01.0
(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,	45.5	4.0	4.0	4.5	00.0	47.0	45.0	40.0	444	40.0	00.7	00.0
V89.0,V89.2)	15.5	4.8	4.3	4.5	26.8	17.9	15.0	13.9	14.4	18.0	26.7	30.2
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)	0.8	*	0.3	0.3	1.0	0.8	0.9	0.8	0.8	0.8	1.3	1.3
Water, air and space, and other and unspecified												
transport accidents and their sequelae												
(V90-V99,Y85)	0.7	*	*	0.2	0.5	0.9	0.9	1.0	1.1	0.9	0.5	*
Nontransport accidents (W00-X59,Y86)	18.9	17.2	7.8	2.8	7.9	11.7	17.1	16.7	14.8	25.4	72.6	249.1
Falls (W00-W19)	4.8	*	0.4	0.1	0.6	0.9	1.4	2.3	3.8	9.1	31.7	109.7
Accidental discharge of firearms (W32-W34)	0.3	*	*	0.1	0.7	0.4	0.3	0.3	0.2	0.2	0.2	*
	1.3	1.8	3.2	0.2	1.7	1.2	1.1	1.0	0.2	1.0	1.3	1.6
Accidental drowning and submersion (W65-W74) Accidental exposure to smoke, fire and flames	1.3	1.0	3.∠	0.9	1.7	1.2	1.1	1.0	0.9	1.0	1.3	1.0
	4.0	4.4	0.0	0 7	0.5	0.7	0.0	4.0		0.0	4.0	F 0
(X00-X09)	1.2	1.1	2.0	0.7	0.5	0.7	0.9	1.0	1.4	2.3	4.0	5.9
Accidental poisoning and exposure to noxious substances (X40-X49)	4.5											
	15	*	0.2	0.1	2.6	6.2	10.2	7.9	2.9	1.6	2.2	3.4

Table 10. Death rates for 113 selected causes by age: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over
Other and unspecified nontransport accidents and												
their sequelae (W20-W31,W35-W64,W75-W99,												
X10-X39,X50-X59,Y86)	6.7	13.7	1.9	0.8	1.8	2.3	3.2	4.2	5.7	11.2	33.1	128.3
Intentional self-harm (suicide) (X60-X84,Y87.0)	10.7	10.7		0.6	10.3	13.5	14.4	14.2	12.4	13.6	18.3	19.2
Intentional self-harm (suicide) by discharge of firearms	10.7			0.0	10.5	10.0	14.4	14.2	12.4	10.0	10.5	13.2
(X72-X74)	6.1			0.3	6.1	6.9	6.9	7.5	8.0	9.8	13.2	12.6
Intentional self-harm (suicide) by other and unspecified	0.1			0.5	0.1	0.5	0.5	7.5	0.0	3.0	10.2	12.0
means and their sequelae (X60-X71,X75-X84,												
Y87.0)	4.6			0.4	4.2	6.6	7.5	6.7	4.4	3.7	5.0	6.6
Assault (homicide) (X85-Y09,Y87.1)	6.2	8.7	2.5	1.1	13.2	11.2	7.2	4.7	3.1	2.6	2.5	2.4
Assault (homicide) by discharge of firearms	0.2	0.7	2.5	1.1	13.2	11.2	1.2	4.7	3.1	2.0	2.5	2.4
	4.0	*	0.3	0.6	10.7	8.0	4.2	2.5	1.6	1.1	0.8	0.6
(X93-X95)	4.0		0.5	0.0	10.7	0.0	4.2	2.5	1.0	1.1	0.0	0.0
	2.2	8.5	2.2	0.5	2.5	3.1	3.0	2.2	1.5	1.5	1.7	1.8
their sequelae (X85-X92,X96-Y09,Y87.1) Legal intervention (Y35,Y89.0)	0.1	0.0	Z.Z *	0.5	0.2	0.4	0.3	0.1	0.1	1.5	1.7	1.0
	1.4	1.4	0.2	0.1		2.0	2.9	2.2		0.6	0.0	1 /
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	0.1	1.4	0.3	0.1	1.1 0.3	0.1	0.1	0.1	0.9	0.6	8.0	1.4
Discharge of firearms, undetermined intent (Y22-Y24) Other and unspecified events of undetermined intent	0.1				0.3	0.1	0.1	0.1				
and their sequelae (Y10-Y21,Y25-Y34,Y87.2,	1.0	1.1	0.0	0.1	0.0	1.0	0.0	0.1	0.0	0.5	0.7	1.0
Y89.9)	1.3	1.4	0.3	0.1	0.8	1.8	2.8	2.1	0.9	0.5	0.7	1.3
Operations of war and their sequelae (Y36,Y89.1)	0.0	-		-	-	-	-	-	-	-	-	-
Complications of medical and surgical care	1.0	4.4	0.0	*	0.1	0.0	0.0	0.0	4.0	0.0	0.7	10.7
(Y40-Y84,Y88)	1.0	1.4	0.2	•	0.1	0.2	0.3	0.6	1.3	3.2	6.7	12.7

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States--California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

^{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.

Stategory froit applicable.
 Figures for age not stated included in "All ages" but not distributed among age groups.
 Death rates for "Under 1 year" (based on population estimates) differ from infant mortality rates (based on live births); see Technical notes.

Table 11. Number of deaths from 113 selected causes by race and sex: United States, 1999

							All other							
		All races			White		Total			Black				
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female		
All causes	2,391,399	1,175,460	1,215,939	2,061,348	1,005,335	1,056,013	330,051	170,125	159,926	285,064	145,703	139,361		
Salmonella infections (A01-A02)	. 38	21	17	32	16	16	6	5	1	4	3	1		
Shigellosis and amebiasis (A03,A06)		6	4	10	6	4			-	-				
Certain other intestinal infections (A04,A07-A09)		420	688	1,026	389	637	82	31	51	74	25	49		
Tuberculosis (A16-A19)		584 486	346 278	564 472	348 296	216	366 292	236 190	130 102	245 199	159 126	86 73		
Respiratory tuberculosis (A16)		486 98	68	472 92	296 52	176 40	74	190 46	28	199 46	33	13		
Whooping cough (A37)		1	6	6	1	5	1	40	1	1	-	13		
Scarlet fever and erysipelas (A38,A46)			5	4		4	i	_	1	i	_	i		
Meningococcal infection (A39)		101	126	184	79	105	43	22	21	39	20	19		
Septicemia (A40-A41)		13,395	17,285	24,287	10,489	13,798	6,393	2,906	3,487	5,826	2,623	3,203		
Syphilis (A50-A53)	. 33	13	20	20	8	12	13	5	8	12	5	7		
Acute poliomyelitis (A80)		-	-	-	-	-	-	-	-	-	-	-		
Arthropod-borne viral encephalitis (A83-A84,A85.2)		3	-	3	3	-	-	-	-	-	-	-		
Measles (B05)		-	2	1		1	1	-	1	1	-	1		
Viral hepatitis (B15-B19)	4,853	3,043	1,810	3,835	2,436	1,399	1,018	607	411	731	443	288		
Human immunodeficiency virus (HIV) disease (B20-B24)	14,802	11,234	3,568	6,752	5,613	1,139	8,050	5,621	2,429	7,893	5,493	2,400		
Malaria (B50-B54)		11,234	3,300	0,752	3,013	1,139	3	5,621	2,429	7,093	5,493	2,400		
Other and unspecified infectious and parasitic diseases	. ,		O	7	O		O		_	O		_		
and their seguelae (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)		3,655	3,624	5,794	2,910	2,884	1,485	745	740	1,260	624	636		
Malignant neoplasms (C00-C97)	549,838	285,832	264,006	477,238	247,396	229,842	72,600	38,436	34,164	61,951	32,850	29,101		
Malignant neoplasms of lip, oral cavity, and pharynx (C00-C14)	7.486	4.944	2.542	6,116	3,955	2,161	1.370	989	381	1.145	828	317		
Malignant neoplasm of esophagus (C15)		9.094	2.824	10,079	7,740	2.339	1.839	1,354	485	1.648	1.203	445		
Malignant neoplasm of stomach (C16)		7,459	5,252	9.779	5,786	3.993	2.932	1,673	1,259	2.203	1,263	940		
Malignant neoplasms of colon, rectum and anus	,	.,	-,	-,	-,:	-,	_,	.,	.,	_,	.,			
(Č18-C21)		28,240	28,915	49,374	24,539	24,835	7,781	3,701	4,080	6,777	3,196	3,581		
Malignant neoplasms of liver and intrahepatic bile ducts														
(C22)		7,689	4,693	9,986	6,151	3,835	2,396	1,538	858	1,507	947	560		
Malignant neoplasm of pancreas (C25)		14,176	14,906	25,086	12,273	12,813	3,996	1,903	2,093	3,391	1,611	1,780		
Malignant neoplasm of larynx (C32)	3,815	2,992	823	3,106	2,419	687	709	573	136	663	536	127		
Malignant neoplasm of trachea, bronchus and lung	152,156	89,453	62,703	133,752	77,846	55,906	18,404	11,607	6,797	15,963	10,135	5,828		
(C33-C34) Malignant melanoma of skin (C43)		4,529	2,686	7,086	4,459	2,627	129	70	59	96	48	3,020		
Malignant neoplasm of breast (C50)		384	41,144	35,385	312	35,073	6,143	70 72	6,071	5,425	67	5,358		
Malignant neoplasm of cervix uteri (C53)			4,205	3,229		3,229	976		976	838		838		
Malignant neoplasms of corpus uteri and uterus, part	.,		.,	-,		-,				-		-		
unspecified (C54-C55)	6,468		6,468	5,386		5,386	1,082		1,082	987		987		
Malignant neoplasm of ovary (C56)			13,627	12,302		12,302	1,325		1,325	1,079		1,079		
Malignant neoplasm of prostate (C61)	31,729	31,729		26,005	26,005		5,724	5,724		5,357	5,357			
Malignant neoplasms of kidney and renal pelvis														
(C64-C65)		6,867	4,249	9,878	6,112	3,766	1,238	755	483	1,035	622	413		
Malignant neoplasm of bladder (C67)	11,911	8,105	3,806	10,863	7,520	3,343	1,048	585	463	918	496	422		
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	12,765	7,001	5,764	11,819	6,492	5,327	946	509	437	764	404	360		
Malignant neoplasms of lymphoid, hematopoietic and	12,700	7,001	5,704	11,019	0,432	3,327	340	509	437	704	404	300		
related tissue (C81-C96)	56,318	29,721	26.597	50.189	26,558	23,631	6.129	3,163	2,966	5.088	2,590	2.498		
Hodgkin's disease (C81)		785	618	1,263	708	555	140	77	63	128	75	53		
Non-Hodgkin's lymphoma (C82-C85)		11,794	11,008	20,941	10,768	10,173	1,861	1,026	835	1,443	786	657		
Leukemia (C91-C95)		11,519	9,495	18,899	10,395	8,504	2,115	1,124	991	1,708	892	816		
Manufalina I and the language of the control of the				- /		-,	, -	.,		,				
Multiple myeloma and immunoproliferative neoplasms (C88,C90)		5,584	5,432	9,010	4,651	4,359	2,006	933	1,073	1,803	834	969		

Table 11. Number of deaths from 113 selected causes by race and sex: United States, 1999 - Con.

Cause of death (Based on the Tenth Revision Both International Classification of Diseases, 1902) Section Rule Section Sectio									All other						
Cher and unspecified malignant neoplesms of hymbrold. hematicopseid: and related tissue (CSR)			All races			White		Total			Black				
Cher and unspooflied malignant neoplasms of lymphoid, hematopoied and related tissue (C96) 83 3 9 44 76 36 40 7 3 4 6 3 3 3 4 6 3 3 3 4 6 6 3 3 4 4 5 6 6 3 3 4 4 5 6 6 3 3 4 4 5 6 6 3 3 4 4 5 6 6 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6															
All other and unspecially analysms recipisms (CF) 83 39 34 76 36 36 37 38 4 6 38 38 38 39 34 37 38 38 38 39 34 37 38 38 38 38 38 38 38	International Classification of Diseases, 1992)	sexes	Male	Female	sexes	Male	Female	sexes	Male	Female	sexes	Male	Female		
All officer and unspecified millignant neoplasms (C17/C32-G26-G26-G36-G60-C68-C68-C68-C68-C68-C68-C68-C68-C68-C68	Other and unspecified malignant neoplasms of														
C72 C80 C977 C75 C977	All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41,C44-C49,	83	39	44	76	36	40	7	3	4	6	3	3		
uncertain or unknown behavior (1000-048)		66,251	33,449	32,802	57,818	29,229	28,589	8,433	4,220	4,213	7,067	3,547	3,520		
Anemias (D60-D64) 4,503 1,746 2,757 3,393 1,145 2,149 4,110 502 608 1,019 457 552 Diabetes mellius (E10-E14) 45,393 1,150 31,249 54,899 25,645 2,006 1,306 560 5,819 1,019 4,75 562 339 1,150 31,150															
Diabetes mellitus (E10-E14)	uncertain or unknown behavior (D00-D48)														
Nutrilional deficiencies (E40-E46)	Anemias (D50-D64)														
Mahuntition (E40-E46) 3,985 1,371 2,614 3,368 1,100 2,288 617 271 346 547 234 313 240 618 618 628 649 628 649 628 649	Diabetes mellitus (E10-E14)														
Other nutritional deficiencies (E50-E64)															
Mehnighis (GOD,GO3)															
Parkinson's disease (G20-G21)															
Abhelmer's disease (GSO)															
Major cardiovascular diseases (100-178)															
Diseases of heart (100-109,111/113,120-151)															
Acute Heumatic fever and chronic heumatic lears 3,676 1,042 2,634 3,302 933 2,369 374 109 265 275 88 87															
disease (100-109) 3,676 1,042 2,634 3,302 933 2,399 374 109 265 275 88 187 Hypertensive heart diseases (111) 22,702 3,16 1,396 1,614 4,006 4,107 4,108 4,109 .		720,102	001,017	070,070	000,110	007,500	027,000	30,074	77,002	40,042	70,074	07,570	40,000		
Hypertensive heart diseases (I11)		3 676	1 042	2 634	3 302	933	2 369	374	109	265	275	88	187		
Hypertensive heart and renal diseases (173) 3.327 1.390 1.997 2.225 9.06 1.329 1.090 1.329 1.090 1.329 1.090 1.139 1.000															
Schemic heart diseases (IC0-I25) 529,659 267,268 262,391 469,149 237,193 231,956 60,510 30,075 30,435 51,995 25,104 26,891 Acute myocardial infarction (IC1-I22) 199,454 104,169 95,285 177,07 93,189 83,886 22,379 10,980 11,399 19,276 9,186 10,090 Chler forms of chronic ischemic heart diseases (IC4) 32,322 1,665 1,667 2,752 1,389 1,363 480 276 204 431 248 183 183 Chler forms of chronic ischemic heart disease (IC2) 25,00 25,000 27,926 36,633 35,293 59,711 29,977 29,734 12,215 6,656 5,559 10,823 5,815 5,008 10,900 20,000 20,															
Acute myocardial Infarction ([21-122])	Ischemic heart disease (120-125)														
Other acute ischemic heard diseases (I24) 3,232 1,665 1,567 2,752 1,389 1,363 480 276 204 431 248 183 Other forms of chronic ischemic heard diseases, (I20, I25) 32,973 161,434 165,539 289,322 142,615 146,707 37,651 18,819 18,832 32,288 15,670 16,618 Atherosclerotic cardiovascular diseases, condescribed (I25,0) 71,926 36,633 35,293 59,711 29,977 29,734 12,215 6,656 5,559 10,823 5,815 5,008 All other forms of chronic ischemic heart diseases (I26-I51) 165,828 27,601 130,248 229,611 11,633 12,163 13,273 21,465 9,855 11,610 Acute and subacute endocarditis (I33) 1,116 639 477 879 509 370 237 10,547 11,495 19,685 9,344 10,311 (I30-131,140) 890 442 448 703 351 352 187 91 96 160															
College Coll															
Altherosclerotic cardiovascular diseases, so described (25.0)	Other forms of chronic ischemic heart disease	,	,	•	•	,	,								
All other forms of chronic ischemic heart disease (25,0)		020,0.0	,	.00,000	200,022	,		0.,00.	.0,0.0	.0,002	02,200	.0,0.0	.0,0.0		
(I2O, I25.1-I25.9)	described (I25.0)	71,926	36,633	35,293	59,711	29,977	29,734	12,215	6,656	5,559	10,823	5,815	5,008		
Chronic layer and diseases (126-151) 165,828 72,601 93,227 143,786 62,054 81,732 22,042 10,547 11,495 19,685 9,344 10,341		255 047	124 801	130 246	229 611	112 638	116 973	25 436	12 163	13 273	21 465	9 855	11 610		
Acute and subacute endocarditis (I33)															
Diseases of pericardium and acute myocarditis 180-131,140															
(130-131,140) 890		.,	000		0.0	000	0.0		.00				00		
Heart failure (150)		890	442	448	703	351	352	187	91	96	160	77	83		
All other forms of heart disease (126-128,134-138,142-149,151)						18.469				3.310					
Essential (primary) hypertension and hypertensive renal diseases (110,112)		- ,	-,	- ,	-,-	-,	,-	-,	,	-,-	,	,-	,-		
Essential (primary) hypertension and hypertensive renal diseases (I10,I12)	(126-128,134-138,142-149,151)	108,909	50,765	58,144	92,887	42,725	50,162	16,022	8,040	7,982	14,317	7,129	7,188		
Cerebrovascular diseases (160-169)															
Atherosclerosis (I70)	renal disease (I10,I12)	16,968	6,488	10,480	12,830	4,744	8,086	4,138	1,744	2,394	3,732	1,565	2,167		
Other diseases of circulatory system (I71-I78)		167,366	64,485	102,881	144,827	54,867	89,960	22,539	9,618	12,921	18,884	7,894	10,990		
Aortic aneurysm and dissection (I71)	Atherosclerosis (I70)	14,979	5,443	9,536	13,737	4,932	8,805	1,242	511	731	1,069	432	637		
Other diseases of arteries, arterioles and capillaries (172-178)	Other diseases of circulatory system (I71-I78)	25,809	13,794	12,015	22,952	12,444	10,508	2,857		1,507	2,434	1,111			
(I/2-I78)		15,807	9,615	6,192	14,336	8,817	5,519	1,471	798	673	1,181	619	562		
Othèr disorders of circulatory system (I80-I99)	Other diseases of arteries, arterioles and capillaries														
Influenza and pneumonia (J10-J18)															
Influenza (J10-J11)															
Pneumonia (J12-J18) 62,065 27,116 34,949 55,120 23,712 31,408 6,945 3,404 3,541 5,810 2,801 3,009 Other acute lower respiratory infections (J20-J22) 540 196 344 462 156 306 78 40 38 64 30 34 Acute bronchitis and bronchiolitis (J20-J21) 388 154 234 320 119 201 68 35 33 55 26 29 Unspecified acute lower respiratory infection (J22) 152 42 110 142 37 105 10 5 5 9 4 5 Chronic lower respiratory diseases (J40-J47) 124,181 62,415 61,766 114,735 57,000 57,735 9,446 5,415 4,031 7,915 4,500 3,415 Bronchitis, chronic and unspecified (J40-J42) 1,172 498 674 1,056 440 616 116 58 58 89 44 45															
Other acute lower respiratory infections (J20-J22)															
Acute bronchitis and bronchiolitis (J20-J21)															
Unspecified acute lower respiratory infection (J22) 152 42 110 142 37 105 10 5 5 9 4 5 Chronic lower respiratory diseases (J40-J47) 124,181 62,415 61,766 114,735 57,000 57,735 9,446 5,415 4,031 7,915 4,500 3,415 Bronchitis, chronic and unspecified (J40-J42) 1,172 498 674 1,056 440 616 116 58 58 89 44 45															
Chronic lower respiratory diseases (J40-J47)															
Bronchitis, chronic and unspecified (J40-J42)										-	-				
		, -						-, -		,					
Emprysema (J43)															
	Empnysema (J43)	17,787	9,480	8,307	16,674	8,754	7,920	1,113	726	387	930	598	332		

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Table 11. Number of deaths from 113 selected causes by race and sex: United States, 1999 - Con.

									All ot	her		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Asthma (J45-J46)	4,657	1,620	3,037	3,328	1,046	2,282	1,329	574	755	1,145	481	664
Other chronic lower respiratory diseases (J44,J47)	100,565	50,817	49,748	93,677	46,760	46,917	6,888	4,057	2,831	5,751	3,377	2,374
Pneumoconioses and chemical effects (J60-J66,J68)	1,113	1,079	34	1,037	1,006	31	76	73	3	67	64	3
Pneumonitis due to solids and liquids (J69)	15,268	7,755	7,513	13,582	6,853	6,729	1,686	902	784	1,505	775	730
Other diseases of respiratory system (J00-J06,J30-J39,												
J67,J70-J98)	25,031	12,110	12,921	22,161	10,764	11,397	2,870	1,346	1,524	2,356	1,092	1,264
Peptic ulcer (K25-K28)	4,604	2,189	2,415	4,040	1,887	2,153	564	302	262	448	243	205
Diseases of appendix (K35-K38)	390	236	154	314	184	130	76	52	24	68	48	20
Hernia (K40-K46)	1,464	597	867	1,298	535	763	166	62	104	140	53	87
Chronic liver disease and cirrhosis (K70,K73-K74)	26,259	17,115	9,144	22,620	14,790	7,830	3,639	2,325	1,314	2,833	1,842	991
Alcoholic liver disease (K70)	11,958	8,922	3,036	10,041	7,602	2,439	1,917	1,320	597	1,466	1,018	448
Other chronic liver disease and cirrhosis (K73-K74) Cholelithiasis and other disorders of gallbladder (K80-K82)	14,301	8,193	6,108	12,579 2.487	7,188	5,391	1,722 343	1,005 147	717 196	1,367 257	824 102	543
Nephritis, nephrotic syndrome and nephrosis	2,830	1,248	1,582	, -	1,101	1,386						155
(N00-N07,N17-N19,N25-N27)	35,525	17,016	18,509	28,041	13,632	14,409	7,484	3,384	4,100	6,711	3,008	3,703
Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)	182	90	92	144	67	77	38	23	15	28	16	12
Chronic glomerulonephritis, nephritis and nephropathy,												
not specified as acute or chronic, and renal sclerosis,	500	004	005	407	044	000	100	00		0.4	47	47
unspecified (N02-N03,N05-N07,N26)	589	304	285	467	244	223	122	60	62	94	47	47
Renal failure (N17-N19)	34,719	16,611	18,108	27,407 23	13,312 9	14,095	7,312	3,299 2	4,013	6,577	2,943	3,634
Other disorders of kidney (N25,N27)	35 846	11 263	24 583	23 749	232	14 517	12 97	31	10 66	12 85	2 29	10 56
Hyperplasia of prostate (N40)	430	430		749 390	390		97 40	40		38	29 38	
Inflammatory diseases of female pelvic organs	430	430		390	390		40	40		30	30	
(N70-N76)	108		108	80		80	28		28	26		26
Pregnancy, childbirth and the puerperium (O00-O99)	406		406	220		220	186		186	162		162
Pregnancy with abortive outcome (O00-O07)	31		31	15		15	16		16	15		15
Other complications of pregnancy, childbirth and the	01		01	10		10	10		10	10		10
puerperium (O10-O99)	375		375	205		205	170		170	147		147
Certain conditions originating in the perinatal period	0.0		0.0			200				• • • •		
(P00-P96)	14,259	8,044	6,215	8,648	4,884	3,764	5,611	3,160	2,451	5,150	2,907	2,243
Congenital malformations, deformations and	,200	0,0	0,2.0	0,0.0	.,00.	0,. 0 .	0,0	0,.00	2,	0,.00	2,007	_,0
chromosomal abnormalities (Q00-Q99)	10.393	5,346	5.047	8,297	4,269	4,028	2,096	1.077	1,019	1.720	899	821
Symptoms, signs, and abnormal clinical and laboratory	,	-,- :-	-,	-,	-,	.,	_,	.,	1,010	-,		
findings, not elsewhere classified (R00-R99)	26,672	12,877	13,795	21,591	10,094	11,497	5,081	2,783	2,298	4,591	2,517	2,074
All other diseases (Residual)	171,683	69,784	101,899	148,614	59,336	89,278	23,069	10,448	12,621	20,325	9,071	11,254
Accidents (unintentional injuries) (V01-X59,Y85-Y86)	97,860	63,535	34,325	82,245	52,898	29,347	15,615	10,637	4,978	12,728	8,773	3,955
Transport accidents (V01-V99,Y85)	46,423	31,642	14,781	38,767	26,385	12,382	7,656	5,257	2,399	5,901	4,162	1,739
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)	42,401	28,552	13,849	35,343	23,763	11,580	7,058	4,789	2,269	5,470	3,821	1,649
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)	2,118	1,559	559	1,755	1,281	474	363	278	85	253	196	57
Water, air and space, and other and unspecified												
transport accidents and their sequelae												
	1,904	1,531	373	1,669	1,341	328	235	190	45	178	145	33
(V90-V99,Y85)					00 540	10.005	7.050	E 200	0.570	6 007	4 6 4 4	2 216
Nontransport accidents (W00-X59,Y86)	51,437	31,893	19,544	43,478	26,513	16,965	7,959	5,380	2,579	6,827	4,611	2,216
	51,437 13,162 824	31,893 7,109 707	19,544 6,053 117	43,478 11,992 649	6,352 554	5,640 95	1,170 175	757 153	2,579 413 22	878 156	4,611 564 135	314 21

Table 11. Number of deaths from 113 selected causes by race and sex: United States, 1999 - Con.

									All ot	her		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Accidental drowning and submersion (W65-W74) Accidental exposure to smoke, fire and flames	3,529	2,794	735	2,715	2,120	595	814	674	140	634	530	104
(X00-X09)	3,348	2,025	1,323	2,380	1,466	914	968	559	409	892	510	382
Accidental poisoning and exposure to noxious substances (X40-X49)	12,186	8,887	3,299	9,883	7,240	2,643	2,303	1,647	656	2,062	1,494	568
Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86)	18,388 29,199	10,371 23,458	8,017 5.741	15,859 26,300	8,781 21,107	7,078 5,193	2,529 2,899	1,590 2.351	939 548	2,205 1.950	1,378 1,651	827 299
Intentional self-harm (suicide) by discharge of firearms	16,599	14,479	2,120	15,135	13,167	1,968	1,464	1,312	152	1,125	1,018	107
(X72-X74)	10,599	14,479	2,120	15,135	13,167	1,900	1,404	1,312	152	1,125	1,016	107
Y87.0)	12,600	8,979	3,621	11,165	7,940	3,225	1,435	1,039	396	825	633	192
Assault (homicide) (X85-Y09,Y87.1) Assault (homicide) by discharge of firearms	16,889	12,785	4,104	8,628	6,162	2,466	8,261	6,623	1,638	7,648	6,214	1,434
(X93-X95) Assault (homicide) by other and unspecified means and	10,828	8,944	1,884	4,918	3,820	1,098	5,910	5,124	786	5,577	4,883	694
their sequelae (X85-X92,X96-Y09,Y87.1)	6,061	3,841	2,220	3,710	2,342	1,368	2,351	1,499	852	2,071	1,331	740
Legal intervention (Y35,Y89.0)	398	392	6	255	250	5	143	142	1	126	125	1
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	3,917	2,692	1,225	3,122	2,105	1,017	795	587	208	696	523	173
Discharge of firearms, undetermined intent (Y22-Y24) Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,	324	277	47	247	212	35	77	65	12	66	56	10
Y89.9)	3,593	2,415	1,178	2,875	1,893	982	718	522	196	630	467	163
Operations of war and their sequelae (Y36,Y89.1) Complications of medical and surgical care	23	22	1	22	21	1	1	1	-	1	1	-
(Y40-Y84,Y88)	2,823	1,308	1,515	2,314	1,078	1,236	509	230	279	449	197	252

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States--California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

Quantity zero.. . . Category not applicable.

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999

Cause of death (Based on the Tenth		All origins			Hispanic		1	Non-Hispanio	;1
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	2,391,399	1,175,460	1,215,939	103,740	57,991	45,749	2,279,325	1,112,718	1,166,607
Salmonella infections (A01-A02)		21 6	17 4	4 4	3	1 1	34 6	18 3	16 3
(A04,A07-A09)		420	688	34	17	17	1,071	403	668
Tuberculosis (A16-A19)		584 486	346 278	125 93	78 55	47 38	788 657	492 419	296 238
Other tuberculosis (A17-À19)	166	98 1	68 6	32 3	23	9	131 4	73 1	58 3
Scarlet fever and erysipelas (A38,A46)	5	-	5	-	-	-	5	-	5
Meningococcal infection (A39) Septicemia (A40-A41)		101 13,395	126 17,285	27 1,215	11 605	16 610	198 29,351	89 12,737	109 16,614
Syphilis (A50-A53)	33	13	20	5	1	4	27	11	16
Acute poliomyelitis (A80)Arthropod-borne viral encephalitis			-	-	-	-	-	-	-
(A83-A84,A85.2) Measles (B05)		3	2	-	-	-	3 2	3	2
Viral hepatitis (B15-B19)		3,043	1,810	656	406	250	4,176	2,620	1,556
Human immunodeficiency virus (HIV) disease (B20-B24)	14,802	11,234	3,568	1,958	1,525	433	12,638	9,538	3,100
Malaria (B50-B54)		4	3	, -	· -	-	7	4	3
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) Malignant neoplasms (C00-C97) Malignant neoplasms of lip, oral cavity and		3,655 285,832	3,624 264,006	497 20,233	260 10,668	237 9,565	6,753 528,218	3,379 274,419	3,374 253,799
pharynx (C00-C14)	7,486	4,944	2,542	282	204	78	7,181	4,725	2,456
Malignant neoplasm of esophagus (C15) Malignant neoplasm of stomach (C16)	11,918 12,711	9,094 7,459	2,824 5,252	367 1,055	294 607	73 448	11,520 11,615	8,775 6,827	2,745 4,788
Malignant neoplasms of colon, rectum and anus (C18-C21)	57,155	28,240	28,915	2,031	1,062	969	54,976	27,103	27,873
intrahepatic bile ducts (C22)		7,689	4,693	1,084	688	396	11,265	6,976	4,289
Malignant neoplasm of pancreas (C25) Malignant neoplasm of larynx (C32)		14,176 2,992	14,906 823	1,135 171	563 149	572 22	27,869 3,627	13,572 2,832	14,297 795
Malignant neoplasms of trachea, bronchus and lung (C33-C34)	152,156	89,453	62,703	3,545	2,373	1,172	148,206	86,822	61,384
Malignant melanoma of skin (C43)	7,215	4,529	2,686	133	79	54	7,062	4,438	2,624
Malignant neoplasm of breast (C50) Malignant neoplasm of cervix uteri (C53)	41,528 4,205	384	41,144 4,205	1,551 378	13	1,538 378	39,881 3,817	370	39,511 3,817
Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)	6,468		6,468	272		272	6,188		6.188
Malignant neoplasm of ovary (C56)	13,627		13,627	478	. :::	478	13,103		13,103
Malignant neoplasm of prostate (C61) Malignant neoplasms of kidney and renal	31,729	31,729		1,050	1,050		30,614	30,614	
pelvis (C64-C65)		6,867 8,105	4,249 3,806	547 301	353 222	194 79	10,542 11,582	6,501 7,865	4,041 3,717
Malignant neoplasms of meninges, brain	11,311	0,103	3,000	301	222	73	11,302	7,005	3,717
and other parts of central nervous system (C70-C72)	12.765	7,001	5,764	568	293	275	12,173	6,696	5,477
Malignant neoplasm's of lymphoid, hematopoietic and related tissue	,	,	-, -				, -	-,	-,
(C81-C96)		29,721	26,597	2,538	1,319	1,219	53,669	28,347	25,322
Hodgkin's disease (C81) Non-Hodgkin's lymphoma (C82-C85)		785 11,794	618 11,008	113 958	65 493	48 465	1,286 21,792	719 11,271	567 10,521
Leukemia (C91-C95)		11,519	9,495	994	534	460	19,981	10,968	9,013
Multiple myeloma and immunoproliferative neoplasms									
(C88,C90) Other and unspecified malignant neoplasms of lymphoid,	11,016	5,584	5,432	468	225	243	10,532	5,352	5,180
hematopoietic and related	83	39	44	5	2	3	78	37	41
tissue (C96)	63	39	44	5	2	3	76	37	41
C57-C60,C62-C63,C66,C68-C69, C73-C80,C97)	66,251	33,449	32,802	2,747	1,399	1,348	63,328	31,956	31,372
neoplasms of uncertain or unknown behavior (D00-D48)	13,227	6,520	6,707	497	233	264	12,699	6,276	6,423
Anemias (D50-D64)	4,503	1,746	2,757	164	79	85	4,321	1,659	2,662
Diabetes mellitus (E10-E14)	68,399	31,150	37,249	5,182	2,335	2,847	63,017	28,719	34,298

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Passed on the Tanth	Non	-Hispanic W	hite	Non	-Hispanic Bl	ack	Orio	gin not state	d ²
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	1,953,197	944,913	1,008,284	281,979	143,883	138,096	8,334	4,751	3,583
Salmonella infections (A01-A02)	28 6	13 3	15 3	4	3 -	1 -	-	-	-
(A04,A07-A09)	990	373	617	74	25	49	3	-	3
Tuberculosis (A16-A19)	430	263	167	239	154	85	17	14	3
Respiratory tuberculosis (A16)	371	234 29	137 30	194 45	122 32	72 13	14 3	12 2	2
Other tuberculosis (A17-A19) Whooping cough (A37)	59 3	1	2	45 1	-	1	-	-	-
Scarlet fever and erysipelas (A38,A46)	4	-	4	1	-	1	-	-	-
Meningococcal infection (A39)	155	67	88	39	20	19	2	1	1
Septicemia (A40-A41)Syphilis (A50-A53)	23,023 14	9,863 6	13,160 8	5,772 12	2,594 5	3,178 7	114 1	53 1	61
Acute poliomyelitis (A80)		-	-	-	-	-	-	-	_
Arthropod-borne viral encephalitis									
(A83-A84,A85.2)	3	3	-	-	-	-	-	-	-
Measles (B05)Viral hepatitis (B15-B19)	1 3,176	2,026	1 1,150	718	433	1 285	21	17	4
Human immunodeficiency virus (HIV)	3,170	2,020	1,130	710	400	200	21	17	7
disease (B20-B24)	4,744	4,043	701	7,751	5,377	2,374	206	171	35
Malaria (B50-B54)	4	3	1	3	1	2	-	-	-
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)	5,288	2,644	2,644	1,247	617	630	29	16	13
Malignant neoplasms (C00-C97)	456,315	236,384	219,931	61,409	32,542	28,867	1,387	745	642
pharynx (C00-C14)	5,826	3,746	2,080	1,131	819	312	23	15	8
Malignant neoplasm of esophagus (C15)	9,703	7,440	2,263	1,629	1,187	442	31	25	6
Malignant neoplasm of stomach (C16)	8,712	5,171	3,541	2,183	1,252	931	41	25	16
Malignant neoplasms of colon, rectum and anus (C18-C21)	47,275	23,446	23,829	6,709	3,160	3,549	148	75	73
Malignant neoplasms of liver and									
intrahepatic bile ducts (C22)	8,890	5,455	3,435	1,498	939	559	33	25	8
Malignant neoplasm of pancreas (C25) Malignant neoplasm of larynx (C32)	23,903 2,924	11,684 2,263	12,219 661	3,368 657	1,601 532	1,767 125	78 17	41 11	37 6
Malignant neoplasms of trachea, bronchus	2,524	2,200	001	007	302	125	.,		O
and lung (C33-C34)	129,967	75,338	54,629	15,834	10,039	5,795	405	258	147
Malignant melanoma of skin (C43) Malignant neoplasm of breast (C50)	6,936 33,790	4,370 299	2,566 33,491	94 5,386	47 67	47 5,319	20 96	12 1	8 95
Malignant neoplasm of cervix uteri (C53)	2,854	233	2,854	825		825	10		10
Malignant neoplasms of corpus uteri and	_,00.	• • • •	_,00.	020					
uterus, part unspecified (C54-C55)	5,114		5,114	980		980	.8		8
Malignant neoplasm of ovary (C56) Malignant neoplasm of prostate (C61)	11,795 24,936	24,936	11,795	1,065 5,315	5,315	1,065	46 65	65	46
Malignant neoplasms of kidney and renal	24,330	24,330		3,313	3,313		05	03	
pelvis (C64-C65)	9,319	5,754	3,565	1,028	618	410	27	13	14
Malignant neoplasm of bladder (C67) Malignant neoplasms of meninges, brain	10,548	7,290	3,258	906	487	419	28	18	10
and other parts of central nervous									
system (C70-C72)	11,238	6,193	5,045	754	399	355	24	12	12
Malignant neoplasms of lymphoid,									
hematopoietic and related tissue (C81-C96)	47,608	25,219	22,389	5,038	2,566	2,472	111	55	56
Hodgkin's disease (C81)	1,149	643	506	125	74	51	4	1	3
Non-Hodgkin's lymphoma (C82-C85)	19,956	10,259	9,697	1,427	778	649	52	30	22
Leukemia (C91-C95)	17,885	9,853	8,032	1,694	887	807	39	17	22
immunoproliferative neoplasms									
(C88,C90)	8,547	4,430	4,117	1,786	824	962	16	7	9
Other and unspecified malignant neoplasms of lymphoid,									
hematopoietic and related tissue (C96)	71	34	37	6	3	3	_		
All other and unspecified malignant	7 1	34	37	0	3	3	-	-	-
neoplasms (C17,C23-C24,C26-C31,									
C37-C41,C44-C49,C51-C52,									
C57-C60,C62-C63,C66,C68-C69, C73-C80,C97)	54,977	27,780	27,197	7,009	3,514	3,495	176	94	82
In situ neoplasms, benign neoplasms and	J -1 ,311	21,100	21,131	7,000	0,014	J,+3J	170	J4	02
neoplasms of uncertain or unknown									
behavior (D00-D48)	11,335	5,653	5,682	1,161	516	645	31	11	20
Anemias (D50-D64) Diabetes mellitus (E10-E14)	3,222 49,347	1,162 23,177	2,060 26,170	1,010 11,830	453 4,718	557 7,112	18 200	8 96	10 104
. ,	10,041	_0,177	_0,170	. 1,500	1,7 10	7,112	200	50	104
See footnotes at end of table									

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

		All origins			Hispanic		N	on-Hispanic	1
Cause of death (Based on the Tenth	Doth	g		Doth					
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Nutritional deficiencies (E40-E64)	4,289	1,486	2,803	138	54	84	4,142	1,428	2,714
Malnutrition (E40-E46)	3,985	1,371	2,614	132	50	82	3,844	1,317	2,527
Other nutritional deficiencies (E50-E64)	304	115	189	6	4 41	2	298	111	187
Meningitis (G00,G03) Parkinson's disease (G20-G21)	850 14,593	442 8,262	408 6,331	76 389	222	35 167	767 14,177	396 8,029	371 6,148
Alzheimer's disease (G30)	44,536	13,391	31,145	981	314	667	43,471	13,052	30,419
Major cardiovascular diseases (I00-I78) Diseases of heart (I00-I09,I11,I13,	950,314	441,827	508,487	33,665	17,304	16,361	913,476	422,824	490,652
I20-I51)Acute rheumatic fever and chronic	725,192	351,617	373,575	25,866	13,554	12,312	696,719	336,615	360,104
rheumatic heart diseases (100-109)	3,676	1,042	2,634	166	38	128	3,498	999	2,499
Hypertensive heart disease (I11)	22,702	9,316	13,386	933	455	478	21,639	8,790	12,849
Hypertensive heart and renal disease	0.007	1 200	1 007	111	C.F.	70	0.171	1.010	1.050
(I13)Ischemic heart diseases (I20-I25)	3,327 529,659	1,390 267,268	1,937 262,391	144 19,936	65 10,604	79 9,332	3,171 507,700	1,318 255,524	1,853 252,176
Acute myocardial infarction (I21-I22)	199,454	104,169	95,285	7,158	3,836	3,322	191,729	100,014	91,715
Other acute ischemic heart diseases	, -	,	,	,	-,	-,-	,	,-	
(I24) Other forms of chronic ischemic heart	3,232	1,665	1,567	53	26	27	3,167	1,635	1,532
disease (I20,I25)	326,973	161,434	165,539	12,725	6,742	5,983	312,804	153,875	158,929
Atherosclerotic cardiovascular	020,070	,	.00,000	,0	0,7 .2	0,000	0.2,00.	.00,0.0	.00,020
disease, so described (I25.0)	71,926	36,633	35,293	3,063	1,847	1,216	68,373	34,451	33,922
All other forms of chronic ischemic	055.047	104.001	100.040	0.000	4.005	4 707	044 404	110 101	105.007
heart disease (I20, I25.1-I25.9) Other heart diseases (I26-I51)	255,047 165,828	124,801 72,601	130,246 93,227	9,662 4,687	4,895 2,392	4,767 2,295	244,431 160,711	119,424 69,984	125,007 90,727
Acute and subacute endocarditis (I33)	1,116	639	477	63	42	2,293	1,049	594	455
Diseases of pericardium and acute	.,	-					1,010		
myocarditis (I30-I31,I40)	890	442	448	64	_30	_34	824	410	414
Heart failure (I50)All other forms of heart disease	54,913	20,755	34,158	1,242	522	720	53,528	20,170	33,358
(126-128,134-138,142-149,151)	108,909	50,765	58,144	3,318	1,798	1,520	105,310	48,810	56,500
Essential (primary) hypertension and	100,505	30,703	30,144	0,010	1,750	1,520	100,010	40,010	30,300
hypertensive renal disease (I10,I12)	16,968	6,488	10,480	753	340	413	16,158	6,123	10,035
Cerebrovascular diseases (I60-I69)	167,366	64,485	102,881	5,907	2,809	3,098	161,057	61,499	99,558
Atherosclerosis (I70) Other diseases of circulatory system	14,979	5,443	9,536	410	185	225	14,519	5,236	9,283
(I71-I78)	25,809	13,794	12,015	729	416	313	25,023	13,351	11,672
Aortic aneurysm and dissection (I71)	15,807	9,615	6,192	384	256	128	15,393	9,342	6,051
Other diseases of arteries, arterioles				0.15					= 001
and capillaries (I72-I78) Other disorders of circulatory system	10,002	4,179	5,823	345	160	185	9,630	4,009	5,621
(180-199)	4,025	1,714	2,311	186	83	103	3,825	1,623	2,202
Influenza and pneumonia (J10-J18)	63,730	27,718	36,012	2,246	1,092	1,154	61,218	26,489	34,729
Influenza (J10-J11)	1,665	602	1,063	45	21	24	1,612	580	1,032
Pneumonia (J12-J18) Other acute lower respiratory infections	62,065	27,116	34,949	2,201	1,071	1,130	59,606	25,909	33,697
(J20-J22)	540	196	344	21	10	11	518	185	333
Acute bronchitis and bronchiolitis (J20-J21)	388	154	234	20	10	10	367	143	224
Unspecified acute lower respiratory	000	104	204	20	10	10	007	140	224
infection (J22)	152	42	110	1	-	1	151	42	109
Chronic lower respiratory diseases	104 101	00.445	04 700	0.050	4 5 4 7	1.010	100.000	00.000	00.000
(J40-J47) Bronchitis, chronic and unspecified	124,181	62,415	61,766	2,859	1,547	1,312	120,968	60,669	60,299
(J40-J42)	1,172	498	674	52	17	35	1,117	478	639
Emphysema (J43)	17,787	9,480	8,307	292	183	109	17,441	9,260	8,181
Asthma (J45-J46)	4,657	1,620	3,037	320	119	201	4,324	1,495	2,829
Other chronic lower respiratory diseases (J44,J47)	100,565	50,817	49,748	2,195	1,228	967	98,086	49,436	48,650
Pneumoconioses and chemical effects	.00,000	00,011	10,7 10	2,.00	.,0	00.	00,000	.0, .00	.0,000
(J60-J66,J68)	1,113	1,079	34	13	.11	. 2	1,100	1,068	32
Pneumonitis due to solids and liquids (J69)	15,268	7,755	7,513	413	195	218	14,812	7,534	7,278
Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)	25,031	12,110	12,921	1,157	583	574	23,802	11,483	12,319
Peptic ulcer (K25-K28)	4,604	2,189	2,415	172	101	71	4,415	2,079	2,336
Diseases of appendix (K35-K38)	390	236	154	29	20	9	358	213	145
Hernia (K40-K46)	1,464	597	867	66	27	39	1,390	566	824
Chronic liver disease and cirrhosis (K70,K73-K74)	26,259	17,115	9,144	2,972	2,143	829	23,185	14.896	8,289
Alcoholic liver disease (K70)	11,958	8,922	3,036	1,547	1,294	253	10,353	7,580	2,773
Other chronic liver disease and cirrhosis	,								
(K73-K74)	14,301	8,193	6,108	1,425	849	576	12,832	7,316	5,516
Cholelithiasis and other disorders of gallbladder (K80-K82)	2,830	1,248	1,582	185	84	101	2,639	1,163	1,476
ganbladdor (100 1102)	2,000	1,240	1,002	100	0-7	101	_,000	1,100	1,410
See footnotes at end of table.									

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Course of death (Based 11- T11	Non	-Hispanic W	hite	Non-	Hispanic Bl	ack	Oriç	gin not state	d ²
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Nutritional deficiencies (E40-E64)	3,486	1,142	2,344	585	250	335	9	4	5
Malnutrition (E40-E46)	3,232	1,047	2,185	543	234	309	9	4	Ę
Other nutritional deficiencies (E50-E64)	254	95	159	42	16	26			
Meningitis (G00,G03)	524	265	259	217	119	98	7	5	16
Parkinson's disease (G20-G21)Alzheimer's disease (G30)	13,475 40.835	7,648 12,253	5,827 28,582	502 2,325	269 689	233 1,636	27 84	11 25	59
Major cardiovascular diseases (I00-I78) Diseases of heart (I00-I09,I11,I13,	793,945	366,310	427,635	103,629	47,982	55,647	3,173	1,699	1,474
I20-I51)Acute rheumatic fever and chronic	607,704	293,206	314,498	77,713	37,077	40,636	2,607	1,448	1,159
rheumatic heart diseases (I00-I09)	3,130	892	2,238	269	86	183	.12	_5	_
Hypertensive heart disease (I11)	15,654	6,013	9,641	5,556	2,571	2,985	130	71	59
(I13)	2,091 447,960	843 225,909	1,248 222,051	989 51,368	426 24,736	563 26,632	12 2,023	7 1,140	883
Ischemic heart diseases (I20-I25)	169,545	89,142	80,403	19,120	9,106	10,014	2,023 567	319	248
Other acute ischemic heart diseases	100,040	05,142	00,400	10,120	3,100	10,014	307	010	2-10
(I24) Other forms of chronic ischemic heart	2,689	1,361	1,328	429	246	183	12	4	8
disease (I20,I25)	275,726	135,406	140,320	31,819	15,384	16,435	1,444	817	627
Atherosclerotic cardiovascular disease, so described (I25.0)	56,375	27,943	28,432	10,643	5,692	4,951	490	335	155
All other forms of chronic ischemic	219.351	107 462	111.888	01 176	0.600	11 404	954	482	472
heart disease (I20, I25.1-I25.9) Other heart diseases (I26-I51)	138.869	107,463 59,549	79,320	21,176 19,531	9,692 9,258	11,484 10,273	430	225	205
Acute and subacute endocarditis (I33) Diseases of pericardium and acute	814	466	348	208	115	93	4	3	1
myocarditis (I30-I31,I40)	639	320	319	158	76	82	2	2	
Heart failure (I50)All other forms of heart disease	47,977	17,903	30,074	4,961	2,005	2,956	143	63	80
(I26-I28,I34-I38,I42-I49,I51) Essential (primary) hypertension and	89,439	40,860	48,579	14,204	7,062	7,142	281	157	124
hypertensive renal disease (I10,I12)	12,048	4,395	7,653	3,708	1,550	2,158	57 400	25	32
Cerebrovascular diseases (160-169) Atherosclerosis (170) Other diseases of circulatory system	138,716 13,286	51,968 4,727	86,748 8,559	18,731 1,061	7,823 430	10,908 631	402 50	177 22	225 28
(171-178)	22,191	12,014	10,177	2,416	1,102	1,314	57	27	30
Aortic aneurysm and dissection (I71) Other diseases of arteries, arterioles	13,934	8,551	5,383	1,172	615	557	30	17	13
and capillaries (I72-I78) Other disorders of circulatory system	8,257	3,463	4,794	1,244	487	757	27	10	17
(180-199)	3,149	1,310	1,839	613	281	332	14	8	100
Influenza and pneumonia (J10-J18)	54,280	23,097 547	31,183	5,794	2,786	3,008	266	137	129
Influenza (J10-J11) Pneumonia (J12-J18)	1,522 52,758	22,550	975 30,208	65 5,729	24 2,762	41 2,967	8 258	1 136	122
Other acute lower respiratory infections	32,730	22,000	00,200	3,723	2,702	2,507	200	100	122
(J20-J22)Acute bronchitis and bronchiolitis	440	145	295	64	30	34	1	1	
(J20-J21) Unspecified acute lower respiratory	299	108	191	55	26	29	1	1	
infection (J22) Chronic lower respiratory diseases	141	37	104	9	4	5	-	-	
(J40-J47) Bronchitis, chronic and unspecified	111,620	55,314	56,306	7,840	4,452	3,388	354	199	155
(J40-J42)	1,002 16,338	421 8,540	581 7,798	88 923	43 594	45 329	3 54	3 37	17
Emphysema (J43)	3,011	930	2,081	1,134	474	660	13	6	17
(J44,J47)Pneumoconioses and chemical effects	91,269	45,423	45,846	5,695	3,341	2,354	284	153	131
(J60-J66,J68) Pneumonitis due to solids and liquids (J69)	1,024 13,139	995 6,642	29 6,497	67 1,495	64 768	3 727	43	26	17
Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)	20,959	10,154	10,805	2,339	1,081	1,258	72	44	28
Peptic ulcer (K25-K28)	3,859	1,783	2,076	443	240	203	17	9	8
Diseases of appendix (K35-K38) Hernia (K40-K46) Chronic liver disease and cirrhosis	284 1,227	163 505	121 722	67 139	47 53	20 86	3 8	3 4	2
(K70,K73-K74)	19,602	12.613	6,989	2,793	1,812	981	102	76	20
Alcoholic liver disease (K70)	8,470	6,288	2,182	1,445	1,001	444	58	48	10
		6.005	4 907	1 2/0	811	E27	44	20	16
(K73-K74)Cholelithiasis and other disorders of	11,132	6,325	4,807	1,348	011	537	44	28	11

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Record on the Tonth		All origins			Hispanic		No	on-Hispanic	1
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Nephritis, nephrotic syndrome and nephrosis									
(N00-N07,N17-N19,N25-N27) Acute and rapidly progressive nephritic	35,525	17,016	18,509	1,584	814	770	33,830	16,143	17,687
and nephrotic syndrome (N00-N01, N04)Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute	182	90	92	12	4	8	170	86	84
or chronic, and renal sclerosis, unspecified (N02-N03,N05-N07, N26)	589	304	285	33	18	15	555	285	270
Renal failure (N17-N19)	34,719 35	16,611 11	18,108 24	1,535 4	790 2	745 2	33,074 31	15,763 9	17,311 22
N15.1) Hyperplasia of prostate (N40)	846 430	263 430	583	55 11	21 11	34	786 417	240 417	546
nflammatory diseases of female pelvic organs (N70-N76)	108		108	7		7	101		101
Pregnancy, childbirth and the puerperium (O00-O99)	406		406	70		70	333		333
Pregnancy with abortive outcome (O00-O07)	31		31	4		4	26		26
childbirth and the puerperium (O10-O99)	375		375	66		66	307		307
Certain conditions originating in the perinatal period (P00-P96)	14,259	8,044	6,215	2,153	1,192	961	11,815	6,680	5,135
chromosomal abnormalities (Q00-Q99) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere	10,393	5,346	5,047	1,498	756	742	8,825	4,550	4,275
classified (R00-R99) All other diseases (Residual) Accidents (unintentional injuries)	26,672 171,683	12,877 69,784	13,795 101,899	1,281 7,291	768 3,655	513 3,636	25,181 163,832	11,962 65,835	13,219 97,997
(V01-X59,Y85-Y86)	97,860 46,423	63,535 31,642	34,325 14,781	8,650 4,880	6,578 3,630	2,072 1,250	88,669 41,330	56,551 27,850	32,118 13,480
V81.0-V81.1,V82.0-V82.1,V83-V86, V87.0-V87.8,V88.0-V88.8,V89.0, V89.2)	42,401	28,552	13,849	4,525	3,337	1,188	37,684	25,072	12,612
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)	2,118	1,559	559	264	220	44	1,836	1,323	513
their sequelae (V90-V99,Y85)	1,904 51,437 13,162	1,531 31,893 7,109	373 19,544 6,053	91 3,770 652	73 2,948 464	18 822 188	1,810 47,339 12,447	1,455 28,701 6,602	355 18,638 5,845
Accidental discharge of firearms (W32-W34)	824	707	117	66	61	5	758	646	112
Accidental drowning and submersion (W65-W74)	3,529	2,794	735	480	405	75	3,029	2,370	659
Accidental exposure to smoke, fire and flames (X00-X09)	3,348	2,025	1,323	192	127	65	3,133	1,879	1,254
Accidental poisoning and exposure to noxious substances (X40-X49) Other and unspecified nontransport accidents and their sequelae	12,186	8,887	3,299	1,502	1,271	231	10,542	7,510	3,032
(W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86)	18,388	10,371	8,017	878	620	258	17,430	9,694	7,736
ntentional self-harm (suicide) (X60-X84,Y87.0) Intentional self-harm (suicide) by discharge	29,199	23,458	5,741	1,695	1,430	265	27,379	21,929	5,450
of firearms (X72-X74)Intentional self-harm (suicide) by other and	16,599	14,479	2,120	794	705	89	15,755	13,732	2,023
unspecified means and their sequelae (X60-X71,X75-X84,Y87.0) Assault (homicide) (X85-Y09,Y87.1)	12,600 16,889	8,979 12,785	3,621 4,104	901 2,864	725 2,399	176 465	11,624 13,873	8,197 10,275	3,427 3,598
Assault (homicide) by discharge of firearms (X93-X95)	10,828	8,944	1,884	1,939	1,709	230	8,821	7,177	1,644
and unspecified means and their sequelae (X85-X92,X96-Y09,Y87.1)	6,061	3,841	2,220	925	690	235	5,052	3,098	1,954

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Course of death (Death - Tarill	Non-	Hispanic W	hite	Non-	Hispanic Bl	ack	Orig	gin not state	d ²
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	26,418	12,793	13,625	6,659	2,984	3,675	111	59	52
and nephrotic syndrome (N00-N01, N04) Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis,	132	63	69	28	16	12	-	-	
unspecified (N02-N03,N05-N07, N26) Renal failure (N17-N19) Other disorders of kidney (N25,N27)	436 25,831 19	227 12,496 7	209 13,335 12	92 6,527 12	46 2,920 2	46 3,607 10	1 110 -	1 58 -	52
nfections of kidney (N10-N12,N13.6, N15.1) Hyperplasia of prostate (N40)	689 377	209 377	480	85 38	29 38		5 2	2 2	3
Inflammatory diseases of female pelvic organs (N70-N76) Pregnancy, childbirth and the puerperium	73		73	26		26	-		
(O00-O99)Pregnancy with abortive outcome	152		152	158		158	3		3
(O00-O07) Other complications of pregnancy, childbirth and the puerperium	11		11	14		14	1		1
(O10-O99) Certain conditions originating in the perinatal	141		141	144		144	2		2
period (P00-P96) Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	6,384	3,627	2,757	5,000	2,818	2,182	291 70	172	119
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere	6,782	3,498	3,284	1,680	880	800		40	
classified (R00-R99)All other diseases (Residual)Accidents (unintentional injuries)	20,200 141,002	9,249 55,517	10,951 85,485	4,508 20,137	2,460 8,967	2,048 11,170	210 560	147 294	63 266
(V01-X59,Y85-Y86) Transport accidents (V01-V99,Y85) Motor vehicle accidents (V02-V04,	73,326 33,803	46,113 22,682	27,213 11,121	12,533 5,810	8,629 4,097	3,904 1,713	541 213	406 162	135 51
V89.2) 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,	30,743	20,362	10,381	5,388	3,763	1,625	192	143	49
V82.2-V82.9,V87.9,V88.9,V89.1, V89.3,V89.9) Water, air and space, and other and	1,480	1,051	429	248	192	56	18	16	2
unspecified transport accidents and their sequelae (V90-V99,Y85) Nontransport accidents (W00-X59,Y86) Falls (W00-W19)	1,580 39,523 11,295	1,269 23,431 5,860	311 16,092 5,435	174 6,723 865	142 4,532 554	32 2,191 311	3 328 63	3 244 43	84 20
Accidental discharge of firearms (W32-W34) Accidental drowning and submersion	585	495	90	156	135	21	-	-	
(W65-W74) Accidental exposure to smoke, fire and	2,230	1,708	522	624	521	103	20	19	1
flames (X00-X09)Accidental poisoning and exposure to noxious substances (X40-X49)	2,172 8,311	1,325 5,921	847 2,390	887 2,008	507 1,450	380 558	23 142	19 106	36
Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,	0,011	0,021	2,000	2,000	1,400	330	172	100	
X10-X39,X50-X59,Y86)ntentional self-harm (suicide)	14,930	8,122	6,808	2,183	1,365	818	80	57	23
(X60-X84,Y87.0)	24,534	19,620	4,914	1,924	1,630	294	125	99	26
of firearms (X72-X74)	14,316	12,441	1,875	1,112	1,007	105	50	42	3
(X60-X71,X75-X84,Y87.0)	10,218 5,748	7,179 3,747	3,039 2,001	812 7,536	623 6,131	189 1,405	75 152	57 111	18 41
Assault (homicide) by discharge of firearms (X93-X95)	2,995	2,119	876	5,508	4,826	682	68	58	10
and unspecified means and their sequelae (X85-X92,X96-Y09,Y87.1)	2,753	1,628	1,125	2,028	1,305	723	84	53	31

Table 12. Number of deaths from 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Course of death (Deced on the Touth		All origins			Hispanic		Non-Hispanic ¹			
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
Legal intervention (Y35,Y89.0) Events of undetermined intent	398	392	6	58	58	-	338	332	6	
(Y10-Y34,Y87.2,Y89.9)	3,917	2,692	1,225	249	200	49	3,630	2,463	1,167	
Discharge of firearms, undetermined intent (Y22-Y24)	324	277	47	31	26	5	293	251	42	
undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,Y89.9)	3,593	2,415	1,178	218	174	44	3,337	2,212	1,125	
(Y36,Y89.1)	23	22	1	2	2	-	21	20	1	
Complications of medical and surgical care (Y40-Y84,Y88)	2,823	1,308	1,515	100	52	48	2,714	1,253	1,461	

Cause of death (Deced on the Touth	Non-	Hispanic WI	nite	Non-	Hispanic Bl	ack	Origin not stated ²			
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
Legal intervention (Y35,Y89.0)	197	192	5	125	124	1	2	2	-	
(Y10-Y34,Y87.2,Y89.9)	2,848	1,887	961	686	514	172	38	29	9	
Discharge of firearms, undetermined intent (Y22-Y24)	217	187	30	65	55	10	-	-	-	
(Y10-Y21,Y25-Y34,Y87.2,Y89.9)	2,631	1,700	931	621	459	162	38	29	9	
Operations of war and their sequelae (Y36,Y89.1) Complications of medical and surgical care	20	19	1	1	1	-	-	-	-	
(Y40-Y84,Y88)	2,212	1,025	1,187	442	195	247	9	3	6	

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States—California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

⁻ Quantity zero.
... Category not applicable.
1 Includes races other than white and black.
2 Includes deaths for which Hispanic origin was not reported on the death certificate.

Table 13. Death rates for 113 selected causes by race and sex: United States, 1999

									All o	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	877.0	882.0	872.2	917.7	911.2	924.1	686.5	741.6	636.1	817.7	880.0	761.3
Salmonella infections (A01-A02)	0.0	0.0	*	0.0	*	*	*	*	*	*	*	*
Shigellosis and amebiasis (A03,A06)	*	*	*	*	*	*		*			*	*
Certain other intestinal infections (A04,A07-A09)	0.4	0.3	0.5	0.5	0.4	0.6	0.2	0.1	0.2	0.2	0.2	0.3
Tuberculosis (A16-A19)	0.3	0.4	0.2	0.3	0.3	0.2	0.8	1.0	0.5	0.7	1.0	0.5
Respiratory tuberculosis (A16)	0.3	0.4	0.2	0.2	0.3	0.2	0.6	8.0	0.4	0.6	0.8	0.4
Other tuberculosis (A17-A19)	0.1	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.1	0.2	*
Whooping cough (A37)	*	*	*	*	*	*	*	*	*	*	*	*
Scarlet fever and erysipelas (A38,A46)	*	*	*						*	*	*	*
Meningococcal infection (A39)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	*
Septicemia (A40-A41)	11.3	10.1	12.4	10.8	9.5	12.1	13.3	12.7	13.9	16.7	15.8	17.5
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)	1.8	2.3	1.3	1.7	2.2	1.2	2.1	2.6	1.6	2.1	2.7	1.6
Human immunodeficiency virus (HIV) disease												
(B20-B24)	5.4	8.4	2.6	3.0	5.1	1.0	16.7	24.5	9.7	22.6	33.2	13.1
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)	2.7	2.7	2.6	2.6	2.6	2.5	3.1	3.2	2.9	3.6	3.8	3.5
Malignant neoplasms (C00-C97)	201.6	214.5	189.4	212.5	224.2	201.1	151.0	167.5	135.9	177.7	198.4	159.0
Malignant neoplasms of lip, oral cavity, and pharynx	0.7	0.7	4.0	0.7		4.0	0.0	4.0		0.0	5.0	4 7
(C00-C14)	2.7	3.7	1.8	2.7	3.6	1.9	2.8	4.3	1.5	3.3	5.0	1.7
Malignant neoplasm of esophagus (C15)	4.4	6.8	2.0	4.5	7.0	2.0	3.8	5.9	1.9	4.7	7.3	2.4
Malignant neoplasm of stomach (C16)	4.7	5.6	3.8	4.4	5.2	3.5	6.1	7.3	5.0	6.3	7.6	5.1
Malignant neoplasms of colon, rectum and anus						a						
(C18-C21)	21.0	21.2	20.7	22.0	22.2	21.7	16.2	16.1	16.2	19.4	19.3	19.6
Malignant neoplasms of liver and intrahepatic bile ducts												
(C22)	4.5	5.8	3.4	4.4	5.6	3.4	5.0	6.7	3.4	4.3	5.7	3.1
Malignant neoplasm of pancreas (C25)	10.7	10.6	10.7	11.2	11.1	11.2	8.3	8.3	8.3	9.7	9.7	9.7
Malignant neoplasm of larynx (C32)	1.4	2.2	0.6	1.4	2.2	0.6	1.5	2.5	0.5	1.9	3.2	0.7
Malignant neoplasm of trachea, bronchus and lung												
(C33-C34)	55.8	67.1	45.0	59.5	70.6	48.9	38.3	50.6	27.0	45.8	61.2	31.8
Malignant melanoma of skin (C43)	2.6	3.4	1.9	3.2	4.0	2.3	0.3	0.3	0.2	0.3	0.3	0.3
Malignant neoplasm of breast (C50)	15.2	0.3	29.5	15.8	0.3	30.7	12.8	0.3	24.1	15.6	0.4	29.3
Malignant neoplasm of cervix uteri (C53)	1.5		3.0	1.4		2.8	2.0		3.9	2.4		4.6
Malignant neoplasms of corpus uteri and uterus, part												
unspecified (C54-C55)	2.4		4.6	2.4		4.7	2.3		4.3	2.8		5.4
Malignant neoplasm of ovary (C56)	5.0		9.8	5.5		10.8	2.8		5.3	3.1		5.9
Malignant neoplasm of prostate (C61)	11.6	23.8		11.6	23.6		11.9	25.0		15.4	32.4	
Malignant neoplasms of kidney and renal pelvis												
(C64-C65)	4.1	5.2	3.0	4.4	5.5	3.3	2.6	3.3	1.9	3.0	3.8	2.3
Malignant neoplasm of bladder (C67)	4.4	6.1	2.7	4.8	6.8	2.9	2.2	2.6	1.8	2.6	3.0	2.3
Malignant neoplasms of meninges, brain and other												
parts of central nervous system (C70-C72)	4.7	5.3	4.1	5.3	5.9	4.7	2.0	2.2	1.7	2.2	2.4	2.0
Malignant neoplasms of lymphoid, hematopoietic and						·	-	_		•	•	
related tissue (C81-C96)	20.7	22.3	19.1	22.3	24.1	20.7	12.7	13.8	11.8	14.6	15.6	13.6
Hodgkin's disease (C81)	0.5	0.6	0.4	0.6	0.6	0.5	0.3	0.3	0.3	0.4	0.5	0.3
Non-Hodgkin's lymphoma (C82-C85)	8.4	8.8	7.9	9.3	9.8	8.9	3.9	4.5	3.3	4.1	4.7	3.6
Leukemia (C91-C95)	7.7	8.6	6.8	8.4	9.4	7.4	4.4	4.9	3.9	4.9	5.4	4.5
Multiple myeloma and immunoproliferative neoplasms		0.0	0.0	J. 1	0.1				0.0		J. 1	0

Table 13. Death rates for 113 selected causes by race and sex: United States, 1999 - Con.

									All o	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Other and unspecified malignant neoplasms of												
lymphoid, hematopoietic and related tissue (C96) All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41,C44-C49, C51-C52,C57-C60,C62-C63,C66,C68-C69,	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*	*	*	*
C73-C80,C97)	24.3	25.1	23.5	25.7	26.5	25.0	17.5	18.4	16.8	20.3	21.4	19.2
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	4.9	4.9	4.8	5.3	5.3	5.2	2.9	2.7	3.0	3.4	3.1	3.6
Anemias (D50-D64)	1.7	1.3	2.0	1.5	1.1	1.9	2.3	2.2	2.4	2.9	2.8	3.1
Diabetes mellitus (É10-E14)	25.1	23.4	26.7	24.3	23.2	25.4	28.7	24.4	32.6	34.2	28.7	39.2
Nutritional deficiencies (E40-E64)	1.6	1.1	2.0	1.6	1.1	2.1	1.4	1.3	1.5	1.7	1.5	1.9
Malnutrition (E40-E46)	1.5	1.0	1.9	1.5	1.0	2.0	1.3	1.2	1.4	1.6	1.4	1.7
Other nutritional deficiencies (E50-E64)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	*	0.1	0.1	*	0.1
Meningitis (G00,G03)	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.6	0.5	0.6	0.7	0.6
Parkinson's disease (G20-G21)	5.4	6.2	4.5	6.2	7.1	5.3	1.5	1.7	1.3	1.5	1.6	1.3
Alzheimer's disease (G30)	16.3	10.0	22.3	18.6	11.4	25.6	5.5	3.5	7.4	6.7	4.2	9.0
Major cardiovascular diseases (I00-I78)	348.5	331.5	364.7	369.3	348.5	389.3	251.4	249.6	253.0	300.3	293.4	306.6
Diseases of heart (I00-I09,I11,I13,I20-I51)	265.9	263.8	268.0	282.8	278.8	286.6	187.3	191.9	183.1	225.4	226.9	224.0
Acute rheumatic fever and chronic rheumatic heart												
disease (I00-I09)	1.3	0.8	1.9	1.5	0.8	2.1	0.8	0.5	1.1	0.8	0.5	1.0
Hypertensive heart disease (I11)	8.3	7.0	9.6	7.4	5.9	8.9	12.6	12.3	12.9	16.1	15.7	16.5
Hypertensive heart and renal disease (I13)	1.2	1.0	1.4	1.0	8.0	1.2	2.3	2.1	2.4	2.9	2.6	3.1
Ischemic heart disease (I20-I25)	194.2	200.5	188.2	208.9	215.0	203.0	125.9	131.1	121.1	149.1	151.6	146.9
Acute myocardial infarction (I21-I22)	73.1	78.2	68.3	78.8	84.5	73.4	46.5	47.9	45.3	55.3	55.5	55.1
Other acute ischemic heart diseases (I24) Other forms of chronic ischemic heart disease	1.2	1.2	1.1	1.2	1.3	1.2	1.0	1.2	0.8	1.2	1.5	1.0
(I20,I25)Atherosclerotic cardiovascular disease, so	119.9	121.1	118.7	128.8	129.3	128.4	78.3	82.0	74.9	92.6	94.6	90.8
described (I25.0)	26.4	27.5	25.3	26.6	27.2	26.0	25.4	29.0	22.1	31.0	35.1	27.4
(120, 125.1-125.9)	93.5	93.6	93.4	102.2	102.1	102.4	52.9	53.0	52.8	61.6	59.5	63.4
Other heart diseases (I26-I51)	60.8	54.5	66.9	64.0	56.2	71.5	45.8	46.0	45.7	56.5	56.4	56.5
Acute and subacute endocarditis (I33)	0.4	0.5	0.3	0.4	0.5	0.3	0.5	0.6	0.4	0.6	0.7	0.5
Diseases of pericardium and acute myocarditis												
(130-131,140)	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5
Heart failure (I50)All other forms of heart disease	20.1	15.6	24.5	22.0	16.7	27.0	11.6	10.0	13.2	14.3	12.2	16.3
(126-128,134-138,142-149,151)	39.9	38.1	41.7	41.4	38.7	43.9	33.3	35.0	31.8	41.1	43.1	39.3
Essential (primary) hypertension and hypertensive renal disease (110,112)	6.2	4.9	7.5	5.7	4.3	7.1	8.6	7.6	9.5	10.7	9.5	11.8
Cerebrovascular diseases (I60-I69)	61.4	48.4	73.8	64.5	49.7	78.7	46.9	41.9	51.4	54.2	47.7	60.0
Atherosclerosis (I70)	5.5	4.1	6.8	6.1	4.5	7.7	2.6	2.2	2.9	3.1	2.6	3.5
Other diseases of circulatory system (I71-I78)	9.5	10.3	8.6	10.2	11.3	9.2	5.9	5.9	6.0	7.0	6.7	7.2
Aortic aneurysm and dissection (I71)	5.8	7.2	4.4	6.4	8.0	4.8	3.1	3.5	2.7	3.4	3.7	3.1
Other diseases of arteries, arterioles and capillaries (172-178)	3.7	3.1	4.2	3.8	3.3	4.4	2.9	2.4	3.3	3.6	3.0	4.2
Other disorders of circulatory system (I80-I99)	1.5	1.3	1.7	1.5	1.3	1.7	1.4	1.4	1.5	1.8	1.7	1.8
Influenza and pneumonia (J10-J18)	23.4	20.8	25.8	25.2	22.0	28.4	14.6	15.0	14.3	16.9	17.1	16.7
Influenza (J10-J11)	0.6	0.5	0.8	0.7	0.5	0.9	0.2	0.1	0.2	0.2	0.1	0.2
Pneumonia (J12-J18)	22.8	20.3	25.1	24.5	21.5	27.5	14.4	14.8	14.1	16.7	16.9	16.4
Other acute lower respiratory infections (J20-J22)	0.2	0.1	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Acute bronchitis and bronchiolitis (J20-J21)	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.2	0.2
Unspecified acute lower respiratory infection (J22)	0.1	0.0	0.1	0.1	0.0	0.1	*	*	*	*	*	*
Chronic lower respiratory diseases (J40-J47)	45.5	46.8	44.3	51.1	51.7	50.5	19.6	23.6	16.0	22.7	27.2	18.7
Bronchitis, chronic and unspecified (J40-J42)	0.4	0.4	0.5	0.5	0.4	0.5	0.2	0.3	0.2	0.3	0.3	0.2
Emphysema (J43)	6.5	7.1	6.0	7.4	7.9	6.9	2.3	3.2	1.5	2.7	3.6	1.8

Table 13. Death rates for 113 selected causes by race and sex: United States, 1999 - Con.

									All o	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Asthma (J45-J46)	1.7	1.2	2.2	1.5	0.9	2.0	2.8	2.5	3.0	3.3	2.9	3.6
Other chronic lower respiratory diseases (J44,J47)	36.9	38.1	35.7	41.7	42.4	41.1	14.3	17.7	11.3	16.5	20.4	13.0
Pneumoconioses and chemical effects (J60-J66,J68)	0.4	0.8	0.0	0.5	0.9	0.0	0.2	0.3	*	0.2	0.4	*
Pneumonitis due to solids and liquids (J69)	5.6	5.8	5.4	6.0	6.2	5.9	3.5	3.9	3.1	4.3	4.7	4.0
Other diseases of respiratory system (J00-J06,J30-J39,	0.0	0.1	0.0	0.0	0.0	10.0	0.0	5 0	0.4	0.0	0.0	0.0
J67,J70-J98)	9.2 1.7	9.1 1.6	9.3 1.7	9.9 1.8	9.8 1.7	10.0 1.9	6.0 1.2	5.9 1.3	6.1 1.0	6.8 1.3	6.6 1.5	6.9 1.1
Peptic ulcer (K25-K28)	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.3	0.1
Hernia (K40-K46)	0.1	0.2	0.6	0.6	0.5	0.7	0.3	0.2	0.4	0.4	0.3	0.5
Chronic liver disease and cirrhosis (K70,K73-K74)	9.6	12.8	6.6	10.1	13.4	6.9	7.6	10.1	5.2	8.1	11.1	5.4
Alcoholic liver disease (K70)	4.4	6.7	2.2	4.5	6.9	2.1	4.0	5.8	2.4	4.2	6.1	2.4
Other chronic liver disease and cirrhosis (K73-K74)	5.2	6.1	4.4	5.6	6.5	4.7	3.6	4.4	2.9	3.9	5.0	3.0
Cholelithiasis and other disorders of gallbladder												
(K80-K82)	1.0	0.9	1.1	1.1	1.0	1.2	0.7	0.6	0.8	0.7	0.6	0.8
Nephritis, nephrotic syndrome and nephrosis										40.0		
(N00-N07,N17-N19,N25-N27)	13.0	12.8	13.3	12.5	12.4	12.6	15.6	14.8	16.3	19.3	18.2	20.2
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	*	*
Chronic glomerulonephritis, nephritis and nephropathy,	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		0.1		
not specified as acute or chronic, and renal sclerosis,												
unspecified (N02-N03,N05-N07,N26)	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3
Renal failure (N17-N19)	12.7	12.5	13.0	12.2	12.1	12.3	15.2	14.4	16.0	18.9	17.8	19.9
Other disorders of kidney (N25,N27)	0.0	*	0.0	0.0	*	*	*	*	*	*	*	*
Infections of kidney (N10-N12,N13.6,N15.1)	0.3	0.2	0.4	0.3	0.2	0.5	0.2	0.1	0.3	0.2	0.2	0.3
Hyperplasia of prostate (N40)	0.2	0.3		0.2	0.4		0.1	0.2		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)	0.1		0.3	0.1		0.2	0.4		0.7	0.5		0.9
Pregnancy with abortive outcome (O00-O07)	0.0		0.0	*		*	*		*	*		*
Other complications of pregnancy, childbirth and the												
puerperium (O10-O99)	0.1		0.3	0.1		0.2	0.4		0.7	0.4		8.0
Certain conditions originating in the perinatal period	F 0	0.0	4.5	0.0	4.4	0.0	44.7	10.0	0.7	44.0	17.0	10.0
(P00-P96)	5.2	6.0	4.5	3.9	4.4	3.3	11.7	13.8	9.7	14.8	17.6	12.3
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	3.8	4.0	3.6	3.7	3.9	3.5	4.4	4.7	4.1	4.9	5.4	4.5
Symptoms, signs, and abnormal clinical and laboratory	3.0	4.0	3.0	3.7	3.9	3.5	4.4	4.7	4.1	4.5	5.4	4.5
findings, not elsewhere classified (R00-R99)	9.8	9.7	9.9	9.6	9.1	10.1	10.6	12.1	9.1	13.2	15.2	11.3
All other diseases (Residual)	63.0	52.4	73.1	66.2	53.8	78.1	48.0	45.5	50.2	58.3	54.8	61.5
Accidents (unintentional injuries) (V01-X59,Y85-Y86)	35.9	47.7	24.6	36.6	47.9	25.7	32.5	46.4	19.8	36.5	53.0	21.6
Transport accidents (V01-V99,Y85)	17.0	23.7	10.6	17.3	23.9	10.8	15.9	22.9	9.5	16.9	25.1	9.5
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)	15.5	21.4	9.9	15.7	21.5	10.1	14.7	20.9	9.0	15.7	23.1	9.0
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,	0.0	1.0	0.4	0.0	1.0	0.4	0.0	4.0	0.0	0.7	1.0	0.0
V88.9,V89.1,V89.3,V89.9)	8.0	1.2	0.4	0.8	1.2	0.4	8.0	1.2	0.3	0.7	1.2	0.3
Water, air and space, and other and unspecified transport accidents and their sequelae												
(V90-V99,Y85)	0.7	1.1	0.3	0.7	1.2	0.3	0.5	0.8	0.2	0.5	0.9	0.2
Nontransport accidents (W00-X59,Y86)	18.9	23.9	14.0	19.4	24.0	14.8	16.6	23.5	10.3	19.6	27.8	12.1
Falls (W00-W19)	4.8	5.3	4.3	5.3	5.8	4.9	2.4	3.3	1.6	2.5	3.4	1.7
Accidental discharge of firearms (W32-W34)	0.3	0.5	0.1	0.3	0.5	0.1	0.4	0.7	0.1	0.4	0.8	0.1
	0.0	0.0	· · ·	0.0	0.0	٠	· · ·	· · ·		٠	0.0	· · ·

Table 13. Death rates for 113 selected causes by race and sex: United States, 1999 - Con.

									All c	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female									
Accidental drowning and submersion (W65-W74) Accidental exposure to smoke, fire and flames	1.3	2.1	0.5	1.2	1.9	0.5	1.7	2.9	0.6	1.8	3.2	0.6
(X00-X09)	1.2	1.5	0.9	1.1	1.3	0.8	2.0	2.4	1.6	2.6	3.1	2.1
Accidental poisoning and exposure to noxious substances (X40-X49) Other and unspecified nontransport accidents and	4.5	6.7	2.4	4.4	6.6	2.3	4.8	7.2	2.6	5.9	9.0	3.1
their sequelae (W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86)	6.7 10.7	7.8 17.6	5.8 4.1	7.1 11.7	8.0 19.1	6.2 4.5	5.3 6.0	6.9 10.2	3.7 2.2	6.3 5.6	8.3 10.0	4.5 1.6
Intentional self-harm (suicide) (X60-X84,Y87.0)Intentional self-harm (suicide) by discharge of firearms	10.7	17.6	4.1	11.7	19.1	4.5	6.0	10.2	2.2	5.6	10.0	1.6
(X72-X74) Intentional self-harm (suicide) by other and unspecified means and their sequelae (X60-X71,X75-X84,	6.1	10.9	1.5	6.7	11.9	1.7	3.0	5.7	0.6	3.2	6.1	0.6
Y87.0)	4.6	6.7	2.6	5.0	7.2	2.8	3.0	4.5	1.6	2.4	3.8	1.0
Assault (homicide) (X85-Y09,Y87.1) Assault (homicide) by discharge of firearms	6.2	9.6	2.9	3.8	5.6	2.2	17.2	28.9	6.5	21.9	37.5	7.8
(X93-X95)	4.0	6.7	1.4	2.2	3.5	1.0	12.3	22.3	3.1	16.0	29.5	3.8
their sequelae (X85-X92,X96-Y09,Y87.1)	2.2	2.9	1.6	1.7	2.1	1.2	4.9	6.5	3.4	5.9	8.0	4.0
Legal intervention (Y35, Y89.0)	0.1	0.3	*	0.1	0.2	*	0.3	0.6	*	0.4	0.8	*
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	1.4	2.0	0.9	1.4	1.9	0.9	1.7	2.6	0.8	2.0	3.2	0.9
Discharge of firearms, undetermined intent (Y22-Y24) Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,	0.1	0.2	0.0	0.1	0.2	0.0	0.2	0.3	*	0.2	0.3	*
Y89.9)	1.3	1.8	0.8	1.3	1.7	0.9	1.5	2.3	0.8	1.8	2.8	0.9
Operations of war and their sequelae (Y36,Y89.1)	0.0	0.0	*	0.0	0.0	*	*	*	*	*	*	*
(Y40-Y84,Y88)	1.0	1.0	1.1	1.0	1.0	1.1	1.1	1.0	1.1	1.3	1.2	1.4

^{0.0} Quantity more than zero but less than 0.05.

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States--California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

^{*} Figure does not meet standards of reliability or precision, see Technical notes. . . . Category not applicable.

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999

Cause of death (Based on the Tenth		All origins ¹			Hispanic		N	lon-Hispanio	<u> </u>
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	877.0	882.0	872.2	331.0	367.9	293.7	944.4	946.9	942.0
Salmonella infections (A01-A02) Shigellosis and amebiasis (A03,A06) Certain other intestinal infections	0.0	0.0	*	*	*	*	0.0	*	*
(A04,A07-A09)	0.4	0.3	0.5	0.1	*	*	0.4	0.3	0.5
Tuberculosis (A16-A19)	0.3	0.4	0.2	0.4	0.5	0.3	0.3	0.4	0.2
Respiratory tuberculosis (A16)	0.3	0.4	0.2	0.3	0.3	0.2	0.3	0.4	0.2
Other tuberculosis (A17-A19)	0.1	0.1	0.0	0.1	0.1	*	0.1	0.1	0.0
Whooping cough (A37)	*	*	*	*	*	*	*	*	*
Scarlet fever and erysipelas (A38,A46) Meningococcal infection (A39)	0.1	0.1	0.1	0.1	*	*	0.1	0.1	0.1
Septicemia (A40-A41)	11.3	10.1	12.4	3.9	3.8	3.9	12.2	10.8	13.4
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)	1.8	2.3	1.3	2.1	2.6	1.6	1.7	2.2	1.3
Human immunodeficiency virus (HIV)	1.0	2.0	1.0		2.0	1.0	1.7		1.0
disease (B20-B24)	5.4	8.4	2.6	6.2	9.7	2.8	5.2	8.1	2.5
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)	2.7	2.7	2.6	1.6	1.6	1.5	2.8	2.9	2.7
Malignant neoplasms (C00-C97)	201.6	214.5	189.4	64.6	67.7	61.4	218.9	233.5	204.9
Malignant neoplasms of lip, oral cavity and									
pharynx (C00-C14)	2.7	3.7	1.8	0.9	1.3	0.5	3.0	4.0	2.0
Malignant neoplasm of esophagus (C15)	4.4	6.8	2.0	1.2	1.9	0.5	4.8	7.5	2.2
Malignant neoplasm of stomach (C16) Malignant neoplasms of colon, rectum and	4.7	5.6	3.8	3.4	3.9	2.9	4.8	5.8	3.9
anus (C18-C21)	21.0	21.2	20.7	6.5	6.7	6.2	22.8	23.1	22.5
Malignant neoplasms of liver and	20			0.0	0.,	0.2		2011	
intrahepatic bile ducts (C22)	4.5	5.8	3.4	3.5	4.4	2.5	4.7	5.9	3.5
Malignant neoplasm of pancreas (C25)	10.7	10.6	10.7	3.6	3.6	3.7	11.5	11.5	11.5
Malignant neoplasm of larynx (C32)	1.4	2.2	0.6	0.5	0.9	0.1	1.5	2.4	0.6
Malignant neoplasms of trachea, bronchus and lung (C33-C34)	55.8	67.1	45.0	11.3	15.1	7.5	61.4	73.9	49.6
Malignant melanoma of skin (C43)	2.6	3.4	1.9	0.4	0.5	0.3	2.9	3.8	2.1
Malignant neoplasm of breast (C50)	15.2	0.3	29.5	4.9	*	9.9	16.5	0.3	31.9
Malignant neoplasm of cervix uteri (C53)	1.5		3.0	1.2		2.4	1.6		3.1
Malignant neoplasms of corpus uteri and	0.4		4.0	0.0		4 =	0.0		
uterus, part unspecified (C54-C55)	2.4 5.0		4.6	0.9 1.5		1.7	2.6 5.4		5.0
Malignant neoplasm of ovary (C56) Malignant neoplasm of prostate (C61)	11.6	23.8	9.8	3.4	6.7	3.1	12.7	26.1	10.6
Malignant neoplasms of kidney and renal	11.0	20.0		0.1	0.7		12.7	20.1	
peľvis (C64-C65)	4.1	5.2	3.0	1.7	2.2	1.2	4.4	5.5	3.3
Malignant neoplasm of bladder (C67)	4.4	6.1	2.7	1.0	1.4	0.5	4.8	6.7	3.0
Malignant neoplasms of meninges, brain									
and other parts of central nervous system (C70-C72)	4.7	5.3	4.1	1.8	1.9	1.8	5.0	5.7	4.4
Malignant neoplasms of lymphoid,	4.7	5.5	4.1	1.0	1.9	1.0	5.0	5.7	7.7
hematopoietic and related tissue									
(C81-C96)	20.7	22.3	19.1	8.1	8.4	7.8	22.2	24.1	20.4
Hodgkin's disease (C81)	0.5	0.6	0.4	0.4	0.4	0.3	0.5	0.6	0.5
Non-Hodgkin's lymphoma (C82-C85)	8.4	8.8	7.9	3.1 3.2	3.1 3.4	3.0	9.0 8.3	9.6	8.5 7.3
Leukemia (C91-C95) Multiple myeloma and	7.7	8.6	6.8	3.2	3.4	3.0	0.3	9.3	7.3
immunoproliferative neoplasms									
(C88,C90)	4.0	4.2	3.9	1.5	1.4	1.6	4.4	4.6	4.2
Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related									
tissue (C96)	0.0	0.0	0.0	*	*	*	0.0	0.0	0.0
C73-C80,C97)	24.3	25.1	23.5	8.8	8.9	8.7	26.2	27.2	25.3
behavior (D00-D48)	4.9	4.9	4.8	1.6	1.5	1.7	5.3	5.3	5.2
Anemias (D50-D64)	1.7	1.3	2.0	0.5	0.5	0.5	1.8	1.4	2.1
Allemas (D00-D04)									

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Based on the Tenth	Non	-Hispanic W	hite	Non	-Hispanic B	lack
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female
All causes	996.3	984.7	1,007.4	852.1	918.0	792.8
Salmonella infections (A01-A02)	0.0	*	*	*	*	*
Certain other intestinal infections (A04,A07-A09)	0.5	0.4	0.6	0.2	0.2	0.3
Tuberculosis (A16-A19)	0.2	0.3	0.2	0.7	1.0	0.5
Respiratory tuberculosis (A16)	0.2	0.2	0.1	0.6	0.8	0.4
Other tuberculosis (A17-À19)	0.0	0.0	0.0	0.1	0.2	*
Whooping cough (A37)	*	*	*	*	*	*
Scarlet fever and erysipelas (A38,A46)	*	*		*	*	*
Meningococcal infection (A39)Septicemia (A40-A41)	0.1 11.7	0.1 10.3	0.1 13.1	0.1 17.4	0.1 16.5	18.2
Syphilis (A50-A53)	*	10.5	*	*	10.5	10.2
Acute poliomyelitis (A80)	*	*	*	*	*	*
Arthropod-borne viral encephalitis						
(A83-A84,A85.2)	*	*	*	*	*	*
Measles (B05)	*	*	*	*	*	*
Viral hepatitis (B15-B19)	1.6	2.1	1.1	2.2	2.8	1.6
Human immunodeficiency virus (HIV)	0.4	4.0	0.7	00.4	04.0	10.0
disease (B20-B24) Malaria (B50-B54)	2.4	4.2	0.7	23.4	34.3	13.6
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)	2.7	2.8	2.6	3.8	3.9	3.6
Malignant neoplasms (C00-C97)	232.8	246.3	219.7	185.6	207.6	165.7
Malignant neoplasms of lip, oral cavity and	202.0	210.0	210.7	100.0	207.0	100.7
pharynx (C00-C14)	3.0	3.9	2.1	3.4	5.2	1.8
Malignant neoplasm of esophagus (C15)	4.9	7.8	2.3	4.9	7.6	2.5
Malignant neoplasm of stomach (C16)	4.4	5.4	3.5	6.6	8.0	5.3
Malignant neoplasms of colon, rectum and	04.4	04.4	00.0	00.0	00.0	00.4
anus (C18-C21) Malignant neoplasms of liver and	24.1	24.4	23.8	20.3	20.2	20.4
intrahepatic bile ducts (C22)	4.5	5.7	3.4	4.5	6.0	3.2
Malignant neoplasm of pancreas (C25)	12.2	12.2	12.2	10.2	10.2	10.1
Malignant neoplasm of larynx (C32)	1.5	2.4	0.7	2.0	3.4	0.7
Malignant neoplasms of trachea, bronchus						
and lung (C33-C34)	66.3	78.5	54.6	47.8	64.0	33.3
Malignant melanoma of skin (C43)	3.5	4.6	2.6	0.3	0.3	0.3
Malignant neoplasm of breast (C50)	17.2	0.3	33.5	16.3	0.4	30.5
Malignant neoplasm of cervix uteri (C53) Malignant neoplasms of corpus uteri and	1.5		2.9	2.5		4.7
uterus, part unspecified (C54-C55)	2.6		5.1	3.0		5.6
Malignant neoplasm of ovary (C56)	6.0		11.8	3.2		6.1
Malignant neoplasm of prostate (C61)	12.7	26.0		16.1	33.9	
Malignant neoplasms of kidney and renal						
pelvis (C64-C65)	4.8	6.0	3.6	3.1	3.9	2.4
Malignant neoplasm of bladder (C67)	5.4	7.6	3.3	2.7	3.1	2.4
Malignant neoplasms of meninges, brain and other parts of central nervous						
system (C70-C72)	5.7	6.5	5.0	2.3	2.5	2.0
Malignant neoplasms of lymphoid,	0	0.0	0.0	2.0	2.0	
hematopoietic and related tissue						
(C81-C96)	24.3	26.3	22.4	15.2	16.4	14.2
Hodgkin's disease (C81)	0.6	0.7	0.5	0.4	0.5	0.3
Non-Hodgkin's lymphoma (C82-C85)	10.2	10.7	9.7	4.3	5.0	3.7
Leukemia (C91-C95)	9.1	10.3	8.0	5.1	5.7	4.6
Multiple myeloma and immunoproliferative neoplasms						
(C88,C90)	4.4	4.6	4.1	5.4	5.3	5.5
Other and unspecified malignant						
neoplasms of lymphoid,						
hematopoietic and related						
tissue (C96)	0.0	0.0	0.0	*	*	*
All other and unspecified malignant						
neoplasms (C17,C23-C24,C26-C31, C37-C41,C44-C49,C51-C52,						
C57-C61,C44-C49,C51-C52, C57-C60,C62-C63,C66,C68-C69,						
C73-C80,C97)	28.0	28.9	27.2	21.2	22.4	20.1
In situ neoplasms, benign neoplasms and			<u>_</u>	_ · · -		
neoplasms of uncertain or unknown						
behavior (D00-D48)	5.8	5.9	5.7	3.5	3.3	3.7
	1.6	1.2	2.1	3.1	2.9	3.2
Anemias (D50-D64) Diabetes mellitus (E10-E14)	1.6 25.2	24.2	26.1	35.7	30.1	40.8

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Nutritional deficiencies (E40-E64)	Course of death (Perced on the Torth		All origins ¹			Hispanic		N	lon-Hispanio	2
Mahuntrion (E40-E46)	Revision, International Classification of		Male	Female		Male	Female		Male	Female
Mahuntrion (E40-E46)	Nutritional deficiencies (E40 E64)	1.0	4.4	0.0	0.4	0.0	0.5	17	1.0	0.0
Other furnished deficiencies (ESD-E64) O.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0										2.2
Meningilis (G90, G09)					*	*	*			0.2
Parkinson's diseases (200-2021)					0.2	0.3	0.2			0.3
Alzheimer's diseases (G30) (10	Parkinson's disease (G20-G21)									5.0
Major cardiovascular diseases (100-1078)	Alzheimer's disease (G30)									24.6
E0-161										396.2
Acute méumatic fever and chronic rhematic feeds (00-19)		005.0	000.0	000.0	00.5	00.0	70.0	000.7	006.4	000.0
Hypertensive heart diseases (i11)	Acute rheumatic fever and chronic	200.9		200.0				200.7		
Hypertensive heart and renal diseases (113) 142 2005 182 683 673 59.9 210.4 217.4 2005 182 683 673 59.9 210.4 217.4 2005 182 683 673 59.9 210.4 217.4 2005 182 683 22.8 24.3 21.3 79.4 85.1 74. Charle rough isothermic heart diseases (120-125) 194.2 12 1.1 0.2 0.2 0.2 0.2 1.3 1.4 1. Charle rough isothermic heart diseases (120-125) 194.2 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.5 14.0 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 42.8 38.4 129.6 130.9 12.1 118.7 40.6 12.1 12.1 12.1 12.1 12.1 12.1 12.1 12										2.0
(113)		8.3	7.0	9.6	3.0	2.9	3.1	9.0	7.5	10.4
Ischemic heart diseases (I20-I25)		4.0	1.0	4.4	0.5	0.4	0.5	4.0		4.5
Acute myocardial infarction (121-122)										1.5
Other acute ischemic heart diseases (124) Cher forms of chronic ischemic heart diseases (120,125) Cher forms of chronic heart diseases (120,125) Cher										
(24)		73.1	78.2	08.3	22.8	24.3	21.3	79.4	85.1	74.1
Other forms of chronic ischemic heart diseases (I20,I25) 119,9 121,1 118,7 40,6 42,8 38,4 129,6 130,9 128, Atherosclerotic cardiovascular diseases (I20,I25) 26,4 27,5 25,3 9,8 11,7 7,8 28,3 29,3 27, All other forms of chronic ischemic diseases, os described (I25,0) 93,5 93,6 93,4 30,8 31,1 30,6 101,3 101,6 100,0 10		1.0	1.0	1.1	0.2	0.2	0.0	1.0	1.4	1.0
disease (120,125)		1.2	1.2	1.1	0.2	0.2	0.2	1.3	1.4	1.2
Atheroscierotic cardiovascular diseases, so described ((25.0) 26.4 27.5 25.3 9.8 11.7 7.8 28.3 29.3 27. All other forms of chronic ischemic heart diseases (20.51-126.9) 93.5 93.6 93.4 30.8 31.1 30.6 101.3 101.6 100. Other heart diseases ((26.151) 60.8 54.5 66.9 15.0 15.2 14.7 66.6 59.6 73. Acute and subscule endocardisis (39.) 40.5 0.3 0.2 0.3 0.1 0.4 0.5 0.3 0.2 0.2 0.3 0.1 0.4 0.5 0.3 0.2 0.3 0.1 0.4 0.5 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3		110 0	191 1	118 7	40.6	42 B	38.4	120.6	130.0	128.3
disease, so described ((25.0) 26.4 27.5 25.3 9.8 11.7 7.8 28.3 29.3 27.		113.3	121.1	110.7	40.0	42.0	30.4	123.0	100.9	120.5
All other forms of chronic ischemic heard diseases (126,151) 93.5 93.6 93.4 30.8 31.1 30.6 101.3 101.6 100. Other heart diseases (126,151) 60.8 54.5 66.9 15.0 15.2 14.7 66.6 59.6 73. Acute and subacute endocarditis (130,31) 0.4 0.5 0.3 0.2 0.3 0.1 0.4 0.5 0.5 0.0 Diseases of pericardium and acute myocarditis (130,131,140) 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.4 Heart failure (150,150) 0.5 0.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 22.2 17.2 26.0 15.6 24.5 4.0 3.3 4.6 41.5 45.5 45.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 1		26.4	27.5	25.3	9.8	11 7	7.8	28.3	29.3	27.4
heart diseases (I20, I25, I25, 9) 93.5 93.6 93.4 30.8 31.1 30.6 101.3 101.6 100.		20.1	27.0	20.0	0.0		7.0	20.0	20.0	_,
Other heart diseases (126-151)		93.5	93.6	93.4	30.8	31.1	30.6	101.3	101.6	100.9
Acute and subacute endocarditis (i33)										73.3
Diseases of pericardium and acute myocarditis (301-31)4(40)										0.4
Heart failure (I50)	Diseases of pericardium and acute									
All other forms of heart disease (1/26/128/134/18/1424/9/151) 39.9 38.1 41.7 10.6 11.4 9.8 43.6 41.5 45. Essential (primary) hypertension and hypertensive renal diseases (110/12) 6.2 4.9 7.5 2.4 2.2 2.7 6.7 5.2 8. Cerebrovascular diseases (160/169) 61.4 48.4 73.8 18.8 17.8 19.9 66.7 52.3 80. Atherosclerosis (170) 5.5 4.1 6.8 1.3 1.2 1.4 6.0 4.5 5.2 0.1 0.4 11.4 9.8 Atherosclerosis (170) 7.5 4.1 6.8 1.3 1.2 1.4 6.0 4.5 7.9 4. Other diseases of circulatory system (171-179) 7.5 4.4 1.2 1.6 0.8 6.4 7.9 4. Other diseases of circulatory system (171-179) 7.5 7.2 4.4 1.2 1.6 0.8 6.4 7.9 4. Other diseases of arteries, arterioles and capillaries (172-178) 7.5 7.2 4.4 1.2 1.6 0.8 6.4 7.9 4. Other diseases of arteries, arterioles 7.5 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0		0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3
(126-128,134-138,142-149,151) 39.9 38.1 41.7 10.6 11.4 9.8 43.6 41.5 45. Essential (primary) hypertension and hypertensive renal disease (110,112) 6.2 4.9 7.5 2.4 2.2 2.7 6.7 5.2 8. Cerebrovascular diseases (160-169) 61.4 48.4 73.8 18.8 17.8 19.9 66.7 52.3 80. Altherosclerosis (170) 5.5 4.1 6.8 1.3 1.2 1.4 6.0 4.5 7. Other diseases of circulatory system (171-178) 9.5 10.3 8.6 2.3 2.6 2.0 10.4 11.4 9. Aortic aneurysm and dissection (171) 5.8 7.2 4.4 1.2 1.6 0.8 6.4 7.9 4. Other diseases of arteries, arterioles and capillaries (172-178) 3.7 3.1 4.2 1.1 1.0 1.2 4.0 3.4 4. Other diseases of arteries, arterioles and capillaries (172-178) 3.7 3.1 4.2 1.1 1.0 1.2 4.0 3.4 4. Other diseases of arteries, arterioles and capillaries (172-178) 3.7 3.1 4.2 1.1 1.0 1.2 4.0 3.4 4. Other disorders of circulatory system (180-199)	Heart failure (I50)	20.1	15.6	24.5	4.0	3.3	4.6	22.2	17.2	26.9
Essential (primary) hypertension and hypertension and hypertension and hypertensive renal diseases (110,112) 6.2 4.9 7.5 2.4 2.2 2.7 6.7 5.2 8.										
hypertensive renal disease (II)(II)(II)		39.9	38.1	41.7	10.6	11.4	9.8	43.6	41.5	45.6
Cerebrovascular diseases (160-169)										
Atherosclerosis (170)										8.1
Other diseases of circulatory system (171-178)										80.4
(171-178)		5.5	4.1	6.8	1.3	1.2	1.4	6.0	4.5	7.5
Abortic aneurysm and dissection (I71)		0.5	40.0	0.0	0.0	0.0	0.0	40.4		0.4
Other diseases of arteries, arterioles and capillaries (T2-T8) 3.7 3.1 4.2 1.1 1.0 1.2 4.0 3.4 4. Other disorders of circulatory system (I80-199) 1.5 1.3 1.7 0.6 0.5 0.7 1.6 1.4 1. Influenza and pneumonia (J10-J18) 23.4 20.8 25.8 7.2 6.9 7.4 25.4 22.5 28. Influenza (J10-J11) 0.6 0.5 0.8 0.1 0.1 0.2 0.7 0.5 0.8 Other acute lower respiratory infections (J20-J12) 0.2 0.1 0.2 0.1 0.2 0.1 0.2 0.2 0.2 0.2 0.1 Unspecified acute lower respiratory infection (J22) 0.1 0.0 0.1 0.1 0.2 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.1 0.0 0.1 0.1										9.4
and capillaries (172-178) 3.7 3.1 4.2 1.1 1.0 1.2 4.0 3.4 4. (180-199)		5.8	7.2	4.4	1.2	1.6	0.8	6.4	7.9	4.9
Other disorder's of circulatory system ((80-199)		2.7	2.1	4.0	1.1	1.0	1.0	4.0	2.4	4 5
(180-199)		3.7	3.1	4.2	1.1	1.0	1.2	4.0	3.4	4.5
Influenza and pneumonia (J10-J18)		1.5	13	17	0.6	0.5	0.7	1.6	1.4	1.8
Influenza (J10-J11)										28.0
Pneumonia (J12-Ji8) 22.8 20.3 25.1 7.0 6.8 7.3 24.7 22.0 27.										0.8
Other acute lower respiratory infections										27.2
Acute bronchitis and bronchiolitis						-				
Acute bronchibits and bronchiolitis (J20-J21)		0.2	0.1	0.2	0.1	*	*	0.2	0.2	0.3
Unspecified acute lower respiratory infection (J22) 0.1 0.0 0.1 * * * * * 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Acute bronchitis and bronchiolitis									
infection (J22)	(J20-J21)	0.1	0.1	0.2	0.1	*	*	0.2	0.1	0.2
Chronic lower respiratory diseases (J40-J47)	Unspecified acute lower respiratory									
(J40-J47)		0.1	0.0	0.1	*	*	*	0.1	0.0	0.1
Bronchitis, chronic and unspecified (J40-J42)										
(J40-J42)		45.5	46.8	44.3	9.1	9.8	8.4	50.1	51.6	48.7
Emphysema (J43) 6.5 7.1 6.0 0.9 1.2 0.7 7.2 7.9 6. Asthma (J45-J46) 1.7 1.2 2.2 1.0 0.8 1.3 1.8 1.3 2. Other chronic lower respiratory diseases (J44,J47) 36.9 38.1 35.7 7.0 7.8 6.2 40.6 42.1 39. Pneumoconioses and chemical effects (J60-J66,J68) 0.4 0.8 0.0 * * * * * 0.5 0.9 0. Pneumonitis due to solids and liquids (J69) 5.6 5.8 5.4 1.3 1.2 1.4 6.1 6.4 5. Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 9.2 9.1 9.3 3.7 3.7 3.7 9.9 9.8 9. Peptic ulcer (K25-K28) 1.7 1.6 1.7 0.5 0.6 0.5 1.8 1.8 1.8 1. Diseases of appendix (K35-K38) 0.1 0.2 0.1 0.1 0.1 0.1 * 0.1 0.2 0. Hernia (K40-K46) 0.5 0.5 0.4 0.6 0.2 0.2 0.2 0.3 0.6 0.5 0.5 0. Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and other disorders of						_				
Asthma (J45-J46)						1.0				0.5
Other chronic lower respiratory diseases (J44,J47)										6.6
(J44,J47)		1.7	1.2	2.2	1.0	0.8	1.3	1.8	1.3	2.3
Pneumoconiose's and chemical effects (J60-J66,J68) 0.4 0.8 0.0 * * * * 0.5 0.9 0. Pneumonitis due to solids and liquids (J69) 5.6 5.8 5.4 1.3 1.2 1.4 6.1 6.4 5. Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 9.2 9.1 9.3 3.7 3.7 3.7 9.9 9.8 9. Peptic ulcer (K25-K28) 1.7 1.6 1.7 0.5 0.6 0.5 1.8 1.8 1.8 1. Diseases of appendix (K35-K38) 0.1 0.2 0.1 0.1 0.1 * 0.1 * 0.1 0.2 0. Hernia (K40-K46) 0.5 0.4 0.6 0.2 0.2 0.2 0.3 0.6 0.5 0.5 Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of		26.0	20.1	25.7	7.0	7.0	6.0	40.6	40.1	20.2
(J60-J66,J68)		30.9	30.1	33.7	7.0	7.0	0.2	40.0	42.1	39.3
Pneumonitis due to solids and liquids (J69) 5.6 5.8 5.4 1.3 1.2 1.4 6.1 6.4 5. Other diseases of respiratory system (J00-J06, J30-J39, J67, J70-J98) 9.2 9.1 9.3 3.7 3.7 3.7 3.7 9.9 9.8 9. Peptic ulcer (K25-K28) 1.7 1.6 1.7 0.5 0.6 0.5 1.8 1.8 1.8 1. Diseases of appendix (K35-K38) 0.1 0.2 0.1 0.1 0.1 0.1 * 0.1 0.2 0.1 Hernia (K40-K46) 0.5 0.4 0.6 0.2 0.2 0.3 0.6 0.5 0.5 0. Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of		0.4	0.8	0.0	*	*	*	0.5	0.0	0.0
Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 9.2 9.1 9.3 3.7 3.7 3.7 9.9 9.8 9. Peptic ulcer (K25-K28) 1.7 1.6 1.7 0.5 0.6 0.5 1.8 1.8 1. Diseases of appendix (K35-K38) 0.1 0.2 0.1 0.1 0.1 0.1 0.2 0. Hernia (K40-K46) 0.5 0.4 0.6 0.2 0.2 0.3 0.6 0.5 0. Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4.					13	12	1 4			5.9
(J00-J06,J30-J39,J67,J70-J98) 9.2 9.1 9.3 3.7 3.7 3.7 9.9 9.8 9. Peptic ulcer (K25-K28) 1.7 1.6 1.7 0.5 0.6 0.5 1.8 1.8 1. Diseases of appendix (K35-K38) 0.1 0.2 0.1 0.1 0.1 0.1 * 0.1 0.2 0. Hernia (K40-K46) 0.5 0.4 0.6 0.2 0.2 0.3 0.6 0.5 0. Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of		5.0	0.0	0.4	1.0	1.2	1.4	0.1	0.4	0.0
Peptic ulcer (K25-K28) 1.7 1.6 1.7 0.5 0.6 0.5 1.8 1.8 1. Diseases of appendix (K35-K38) 0.1 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.2 0.2 0.3 0.6 0.5 0.5 0.1 0.2 0.2 0.2 0.2 0.3 0.6 0.5 0.5 0.2 0.2 0.2 0.3 0.6 0.5 0.5 0.5 0.2 0.2 0.2 0.3 0.6 0.5 0.5 0.5 0.5 0.2 0.2 0.2 0.3 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		92	9 1	9.3	3.7	3.7	3.7	9.9	9.8	9.9
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 0.3 0.6 0.5 0.5 0.6 Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of										1.9
Hernia (K40-K46) 0.5 0.4 0.6 0.2 0.2 0.3 0.6 0.5 0. Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of							*			0.1
Chronic liver disease and cirrhosis (K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver disease (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of		0.5		0.6	0.2		0.3	0.6		0.7
(K70,K73-K74) 9.6 12.8 6.6 9.5 13.6 5.3 9.6 12.7 6. Alcoholic liver diseases (K70) 4.4 6.7 2.2 4.9 8.2 1.6 4.3 6.5 2. Other chronic liver disease and cirrhosis (K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of										
Other chronic liver disease and cirrhosis (K73-K74)		9.6	12.8	6.6	9.5	13.6	5.3	9.6	12.7	6.7
(K73-K74) 5.2 6.1 4.4 4.5 5.4 3.7 5.3 6.2 4. Cholelithiasis and other disorders of		4.4	6.7	2.2	4.9	8.2	1.6	4.3	6.5	2.2
Cholelithiasis and other disorders of			-							
		5.2	6.1	4.4	4.5	5.4	3.7	5.3	6.2	4.5
gaiibiadder (N8U-N82)						<u> </u>				
	galibladder (K80-K82)	1.0	0.9	1.1	0.6	0.5	0.6	1.1	1.0	1.2

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

	Non	-Hispanic W	/hite	Non	-Hispanic B	ack
Cause of death (Based on the Tenth		Thopanio T		Both	i noparno D	uon
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	sexes	Male	Female
Nutritional deficiencies (E40-E64)	1.8	1.2	2.3	1.8	1.6	1.9
Malnutrition (E40-E46)	1.6	1.1	2.2	1.6	1.5	1.8
Other nutritional deficiencies (E50-E64)	0.1 0.3	0.1 0.3	0.2 0.3	0.1 0.7	^ ^	0.1
Meningitis (G00,G03) Parkinson's disease (G20-G21)	6.9	8.0	5.8	1.5	0.8 1.7	0.6 1.3
Alzheimer's disease (G30)	20.8	12.8	28.6	7.0	4.4	9.4
Major cardiovascular diseases (I00-I78) Diseases of heart (I00-I09,I11,I13,	405.0	381.7	427.3	313.2	306.1	319.5
120-151)	310.0	305.5	314.2	234.8	236.6	233.3
rheumatic heart diseases (I00-I09)	1.6	0.9	2.2	0.8	0.5	1.1
Hypertensive heart disease (I11) Hypertensive heart and renal disease	8.0	6.3	9.6	16.8	16.4	17.1
(I13)	1.1	0.9	1.2	3.0	2.7	3.2
Ischemic heart diseases (I20-I25)	228.5	235.4	221.9	155.2	157.8	152.9
Acute myocardial infarction (I21-I22) Other acute ischemic heart diseases	86.5	92.9	80.3	57.8	58.1	57.5
(I24) Other forms of chronic ischemic heart	1.4	1.4	1.3	1.3	1.6	1.1
disease (I20,I25) Atherosclerotic cardiovascular	140.6	141.1	140.2	96.2	98.1	94.4
disease, so described (I25.0) All other forms of chronic ischemic	28.8	29.1	28.4	32.2	36.3	28.4
heart disease (I20, I25.1-I25.9)	111.9	112.0	111.8	64.0	61.8	65.9
Other heart diseases (I26-I51)	70.8	62.1	79.3	59.0	59.1	59.0
Acute and subacute endocarditis (I33) Diseases of pericardium and acute	0.4	0.5	0.3	0.6	0.7	0.5
myocarditis (I30-I31,I40) Heart failure (I50)	0.3 24.5	0.3 18.7	0.3 30.0	0.5 15.0	0.5 12.8	0.5 17.0
All other forms of heart disease						
(I26-I28,I34-I38,I42-I49,I51) Essential (primary) hypertension and	45.6	42.6	48.5	42.9	45.1	41.0
hypertensive renal disease (I10,I12)	6.1	4.6	7.6	11.2	9.9	12.4
Cerebrovascular diseases (I60-I69) Atherosclerosis (I70)	70.8 6.8	54.2 4.9	86.7 8.6	56.6 3.2	49.9 2.7	62.6 3.6
Other diseases of circulatory system	0.0	4.0	0.0	0.2	2.7	0.0
(I71-I78) Aortic aneurysm and dissection (I71)	11.3 7.1	12.5 8.9	10.2 5.4	7.3 3.5	7.0 3.9	7.5 3.2
Other diseases of arteries, arterioles						
and capillaries (I72-I78) Other disorders of circulatory system	4.2	3.6	4.8	3.8	3.1	4.3
(180-199)	1.6	1.4	1.8	1.9	1.8	1.9
Influenza and pneumonia (J10-J18)Influenza (J10-J11)	27.7 0.8	24.1 0.6	31.2 1.0	17.5 0.2	17.8 0.2	17.3 0.2
Pneumonia (J12-J18)	26.9	23.5	30.2	17.3	17.6	17.0
Other acute lower respiratory infections (J20-J22)	0.2	0.2	0.3	0.2	0.2	0.2
Acute bronchitis and bronchiolitis						
(J20-J21) Unspecified acute lower respiratory	0.2	0.1	0.2	0.2	0.2	0.2
infection (J22) Chronic lower respiratory diseases	0.1	0.0	0.1	*	*	*
(J40-J47)	56.9	57.6	56.3	23.7	28.4	19.5
Bronchitis, chronic and unspecified (J40-J42)	0.5	0.4	0.6	0.3	0.3	0.3
Emphysema (J43)	8.3	8.9	7.8	2.8	3.8	1.9
Asthma (J45-J46)Other chronic lower respiratory diseases	1.5	1.0	2.1	3.4	3.0	3.8
(J44,J47) Pneumoconioses and chemical effects	46.6	47.3	45.8	17.2	21.3	13.5
(J60-J66,J68)	0.5	1.0	0.0	0.2	0.4	*
Pneumonitis due to solids and liquids (J69)	6.7	6.9	6.5	4.5	4.9	4.2
Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98)	10.7	10.6	10.8	7.1	6.9	7.2
Peptic ulcer (K25-K28)	2.0	1.9	2.1	1.3	1.5	1.2
Diseases of appendix (K35-K38)	0.1	0.2	0.1	0.2	0.3	0.1
Hernia (K40-K46)	0.6	0.5	0.7	0.4	0.3	0.5
Chronic liver disease and cirrhosis (K70,K73-K74)	10.0	13.1	7.0	8.4	11.6	5.6
Alcoholic liver disease (K70)	4.3	6.6	2.2	4.4	6.4	2.5
Other chronic liver disease and cirrhosis (K73-K74)	5.7	6.6	4.8	4.1	5.2	3.1
Cholelithiasis and other disorders of gallbladder (K80-K82)	1.2	1.1	1.3	0.8	0.7	0.9
See footnotes at end of table.						

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Based on the Tenth		All origins ¹			Hispanic		Non-Hispanic ²			
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
lephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27) Acute and rapidly progressive nephritic	13.0	12.8	13.3	5.1	5.2	4.9	14.0	13.7	14.3	
and nephrotic syndrome (N00-N01, N04)	0.1	0.1	0.1	*	*	*	0.1	0.1	0	
unspecified (N02-N03,N05-N07, N26)	0.2 12.7 0.0	0.2 12.5 *	0.2 13.0 0.0	0.1 4.9 *	5.0 *	4.8 *	0.2 13.7 0.0	0.2 13.4 *	0.2 14.0 0.0	
nfections of kidney (N10-N12,N13.6, N15.1)lyperplasia of prostate (N40)	0.3 0.2	0.2 0.3	0.4	0.2	0.1	0.2	0.3	0.2	0.4	
organs (N70-N76)	0.2	0.3	0.1	*		*	0.2	0.4	0	
regnancy, childbirth and the puerperium (O00-O99)	0.1		0.3	0.2		0.4	0.1		0.0	
Pregnancy with abortive outcome (000-007)	0.0		0.0	*		*	0.0		0.0	
childbirth and the puerperium (O10-O99) certain conditions originating in the perinatal	0.1		0.3	0.2		0.4	0.1		0.3	
period (P00-P96)ongenital malformations, deformations and	5.2	6.0	4.5	6.9	7.6	6.2	4.9	5.7	4.	
chromosomal abnormalities (Q00-Q99) ymptoms, signs and abnormal clinical and laboratory findings, not elsewhere	3.8	4.0	3.6	4.8	4.8	4.8	3.7	3.9	3.	
classified (R00-R99)ll other diseases (Residual)ccidents (unintentional injuries)	9.8 63.0	9.7 52.4	9.9 73.1	4.1 23.3	4.9 23.2	3.3 23.3	10.4 67.9	10.2 56.0	10. 79.	
(V01-X59,Y85-Y86) Transport accidents (V01-V99,Y85) 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,	35.9 17.0	47.7 23.7	24.6 10.6	27.6 15.6	41.7 23.0	13.3 8.0	36.7 17.1	48.1 23.7	25. 10.	
V89.2)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,	15.5	21.4	9.9	14.4	21.2	7.6	15.6	21.3	10.	
V82.2-V82.9,V87.9,V88.9,V89.1, V89.3,V89.9) Water, air and space, and other and	0.8	1.2	0.4	0.8	1.4	0.3	0.8	1.1	0.	
unspecified transport accidents and their sequelae (V90-V99,Y85) Nontransport accidents (W00-X59,Y86)	0.7 18.9	1.1 23.9	0.3 14.0	0.3 12.0	0.5 18.7	* 5.3	0.7 19.6	1.2 24.4	0. 15.	
Falls (W00-W19)Accidental discharge of firearms	4.8	5.3	4.3	2.1	2.9	1.2	5.2	5.6	4.	
(W32-W34)	0.3	0.5	0.1	0.2	0.4	* 0.5	0.3	0.5	0	
(W65-W74) Accidental exposure to smoke, fire and flames (X00-X09)	1.3 1.2	2.1 1.5	0.5 0.9	1.5 0.6	2.6 0.8	0.5 0.4	1.3 1.3	2.0 1.6	0.	
Accidental poisoning and exposure to noxious substances (X40-X49) Other and unspecified nontransport accidents and their sequelae	4.5	6.7	2.4	4.8	8.1	1.5	4.4	6.4	2.	
(W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86)	6.7	7.8	5.8	2.8	3.9	1.7	7.2	8.2	6	
tentional self-harm (suicide) (X60-X84,Y87.0)Intentional self-harm (suicide) by discharge	10.7	17.6	4.1	5.4	9.1	1.7	11.3	18.7	4.	
of firearms (X72-X74)	6.1	10.9	1.5	2.5	4.5	0.6	6.5	11.7	1.	
(X60-X71,X75-X84,Y87.0)ssault (homicide) (X85-Y09,Y87.1)Assault (homicide) by discharge of	4.6 6.2	6.7 9.6	2.6 2.9	2.9 9.1	4.6 15.2	1.1 3.0	4.8 5.7	7.0 8.7	2.	
firearms (X93-X95)	4.0	6.7	1.4	6.2	10.8	1.5	3.7	6.1	1.	

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Based on the Tenth	Non	-Hispanic W	/hite	Non-Hispanic Black				
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female		
Vephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	13.5	13.3	13.6	20.1	19.0	21.		
Acute and rapidly progressive nephritic	10.5	10.0	10.0	20.1	10.0	۷.		
and nephrotic syndrome (N00-N01,								
N04)	0.1	0.1	0.1	0.1	*	1		
Chronic glomerulonephritis, nephritis and								
nephropathy, not specified as acute								
or chronic, and renal sclerosis, unspecified (N02-N03,N05-N07,								
N26)	0.2	0.2	0.2	0.3	0.3	0.3		
Renal failure (N17-N19)	13.2	13.0	13.3	19.7	18.6	20.		
Other disorders of kidney (N25,N27)	*	*	*	*	*			
nfections of kidney (N10-N12,N13.6,								
N15.1)	0.4	0.2	0.5	0.3	0.2	0.3		
lyperplasia of prostate (N40)	0.2	0.4		0.1	0.2			
nflammatory diseases of female pelvic organs (N70-N76)	0.0		0.1	0.1		0.		
Pregnancy, childbirth and the puerperium	0.0	• • •	0.1	0.1		0.		
(O00-O99)	0.1		0.2	0.5		0.9		
Pregnancy with abortive outcome								
(O00-O07)	*		*	*				
Other complications of pregnancy,								
childbirth and the puerperium	0.1		0.1	0.4		0		
(O10-O99) Certain conditions originating in the perinatal	0.1		0.1	0.4		0.8		
period (P00-P96)	3.3	3.8	2.8	15.1	18.0	12.		
Congenital malformations, deformations and	0.0	0.0	2.0		.0.0			
chromosomal abnormalities (Q00-Q99)	3.5	3.6	3.3	5.1	5.6	4.		
Symptoms, signs and abnormal clinical and								
laboratory findings, not elsewhere	400	0.0	40.0	40.0	45.7			
classified (R00-R99)	10.3	9.6	10.9	13.6	15.7	11.8		
All other diseases (Residual) Accidents (unintentional injuries)	71.9	57.9	85.4	60.9	57.2	64.		
(V01-X59,Y85-Y86)	37.4	48.1	27.2	37.9	55.1	22.		
Transport accidents (V01-V99,Y85)	17.2	23.6	11.1	17.6	26.1	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)	15.7	21.2	10.4	16.3	24.0	9.:		
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)	0.8	1.1	0.4	0.7	1.2	0.		
Water, air and space, and other and	0.0		0.1	0.7		0.0		
unspecified transport accidents and								
their sequelae (V90-V99,Y85)	8.0	1.3	0.3	0.5	0.9	0.		
Nontransport accidents (W00-X59,Y86)	20.2	24.4	16.1	20.3	28.9	12.		
Falls (W00-W19)	5.8	6.1	5.4	2.6	3.5	1.		
Accidental discharge of firearms (W32-W34)	0.3	0.5	0.1	0.5	0.9	0.		
Accidental drowning and submersion	0.5	0.5	0.1	0.5	0.9	0.		
(W65-W74)	1.1	1.8	0.5	1.9	3.3	0.		
Accidental exposure to smoke, fire and			0.0		0.0	0.		
flames (X00-X09)	1.1	1.4	0.8	2.7	3.2	2.		
Accidental poisoning and exposure to								
noxious substances (X40-X49)	4.2	6.2	2.4	6.1	9.3	3.		
Other and unspecified nontransport								
accidents and their sequelae (W20-W31,W35-W64,W75-W99,								
X10-X39,X50-X59,Y86)	7.6	8.5	6.8	6.6	8.7	4.		
ntentional self-harm (suicide)								
(X60-X84,Y87.0)	12.5	20.4	4.9	5.8	10.4	1.		
Intentional self-harm (suicide) by discharge								
of firearms (X72-X74)	7.3	13.0	1.9	3.4	6.4	0.		
Intentional self-harm (suicide) by other and								
unspecified means and their sequelae (X60-X71,X75-X84,Y87.0)	5.2	7.5	3.0	2.5	4.0	1.		
Assault (homicide) (X85-Y09,Y87.1)	2.9	3.9	2.0	2.8	39.1	8.		
Assault (homicide) by discharge of	2.0	0.0			30.1	٥.		
firearms (X93-X95)	1.5	2.2	0.9	16.6	30.8	3.9		
Assault (homicide) by other								
and unspecified means and their sequelae (X85-X92,X96-Y09,Y87.1)	1.4	1.7	1.1	6.1	8.3	4.		

Table 14. Death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

[Rates per 100,000 population in specified group. 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 reporting Hispanic origin on death certificates and on censuses and surveys; see Technical notes]

Course of death (Daned on the Tooks		All origins ¹			Hispanic		Non-Hispanic ²			
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
Legal intervention (Y35,Y89.0)	0.1	0.3	*	0.2	0.4	*	0.1	0.3	*	
(Y10-Y34,Y87.2,Y89.9)	1.4	2.0	0.9	0.8	1.3	0.3	1.5	2.1	0.9	
Discharge of firearms, undetermined intent (Y22-Y24)	0.1	0.2	0.0	0.1	0.2	*	0.1	0.2	0.0	
(Y10-Y21,Y25-Y34,Y87.2,Y89.9)	1.3	1.8	0.8	0.7	1.1	0.3	1.4	1.9	0.9	
Operations of war and their sequelae (Y36, Y89.1) Complications of medical and surgical care	0.0	0.0	*	*	*	*	0.0	0.0	*	
(Y40-Y84,Y88)	1.0	1.0	1.1	0.3	0.3	0.3	1.1	1.1	1.2	

0 (1 (1)	Non	-Hispanic W	hite /	Non-Hispanic Black					
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female			
Legal intervention (Y35,Y89.0)	0.1	0.2	*	0.4	0.8	*			
(Y10-Y34,Y87.2,Y89.9)	1.5	2.0	1.0	2.1	3.3	1.0			
(Y22-Y24) Other and unspecified events of undetermined intent and their sequelae	0.1	0.2	0.0	0.2	0.4	*			
(Y10-Y21,Y25-Y34,Y87.2,Y89.9) Operations of war and their seguelae	1.3	1.8	0.9	1.9	2.9	0.9			
(Y36,Y89.1)	0.0	*	*	*	*	*			
(Y40-Y84,Y88)	1.1	1.1	1.2	1.3	1.2	1.4			

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States--California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

^{*} Figure does not meet standards of reliability or precision, see Technical notes.
0.0 Quantity more than zero but less than 0.05.
... Category not applicable.
1 All origins includes origin not stated; specified origins exclude origin not stated.
2 Includes races other than white and black.

Table 15. Age-adjusted death rates for 113 selected causes by race and sex: United States, 1999

									All	other		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	881.9	1,061.8	743.6	860.7	1,035.8	725.7	990.8	1,206.7	831.0	1,147.1	1,412.5	955.0
Salmonella infections (A01-A02)	0.0	0.0	*	0.0	*	*	*	*	*	*	*	*
Shigellosis and amebiasis (A03,A06)	*	*	*	*	*	*	*	*	*	*	*	*
Certain other intestinal infections (A04,A07-A09)	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.3	0.3	0.3	0.3
Tuberculosis (A16-A19)	0.3	0.5	0.2	0.2	0.3	0.1	1.1	1.7	0.7	1.0	1.5	0.6
Respiratory tuberculosis (A16)	0.3	0.4	0.2	0.2	0.3	0.1	0.9	1.4	0.5	0.8	1.2	0.5
Other tuberculosis (A17-A19)	0.1	0.1	0.0	0.0	0.1	0.0	0.2	0.3	0.1	0.2	0.3	*
Whooping cough (A37)	*	*	*	*	*	*	*	*	*	*	*	*
Scarlet fever and erysipelas (A38,A46)		*	*		*		*		*	-	*	*
Meningococcal infection (A39)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	*
Septicemia (A40-A41)	11.3	12.4	10.5	10.1	11.0	9.4	20.4	22.8	18.6	24.9	28.2	22.5
Syphilis (A50-A53)	0.0	*	0.0	0.0	*	*	*	*	*	*	*	*
Acute poliomyelitis (A80)	*	*	*	*	*	*	*	*	*	*	*	*
Measles (B05)	*	*	*	*	*	*	*	*	*	*	*	*
Viral hepatitis (B15-B19)	1.8	2.4	1.2	1.6	2.3	1.1	2.7	3.5	2.0	2.6	3.5	1.9
Human immunodeficiency virus (HIV) disease	1.0	2.4	1.2	1.0	2.0	1.1	2.7	0.0	2.0	2.0	0.0	1.5
(B20-B24)	5.4	8.4	2.6	3.0	5.0	1.0	17.6	26.9	9.7	24.2	37.1	13.4
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)	2.7	3.1	2.3	2.5	2.9	2.1	4.0	4.8	3.5	4.6	5.5	4.1
Malignant neoplasms (C00-C97)	202.7	251.6	169.9	199.8	246.5	168.6	220.7	288.8	176.1	254.4	340.5	200.2
Malignant neoplasms of lip, oral cavity, and pharynx	202.7	201.0	100.0	100.0	240.0	100.0	220.7	200.0	170.1	204.4	040.5	200.2
(C00-C14)	2.8	4.2	1.6	2.6	3.8	1.6	3.8	6.4	1.9	4.4	7.5	2.1
Malignant neoplasm of esophagus (C15)	4.4	7.7	1.8	4.2	7.5	1.7	5.4	9.4	2.5	6.6	11.5	3.1
Malignant neoplasm of stomach (C16)	4.7	6.6	3.3	4.1	5.8	2.8	9.1	12.7	6.6	9.2	13.3	6.6
Malignant neoplasms of colon, rectum and anus												
(C18-C21)	21.1	25.2	18.1	20.6	24.8	17.5	24.4	28.3	21.6	28.6	33.6	25.1
Malignant neoplasms of liver and intrahepatic bile ducts												
(C22)	4.6	6.5	3.0	4.2	6.0	2.8	7.0	10.2	4.5	6.0	8.7	3.9
Malignant neoplasm of pancreas (C25)	10.7	12.3	9.4	10.5	12.1	9.2	12.4	14.0	11.2	14.2	16.2	12.6
Malignant neoplasm of larynx (C32)	1.4	2.6	0.5	1.3	2.3	0.5	2.0	4.0	0.7	2.6	5.1	8.0
Malignant neoplasm of trachea, bronchus and lung (C33-C34)	56.0	77.0	40.8	56.0	75.8	41.5	55.7	84.9	35.4	65.2	101.8	40.5
Malignant melanoma of skin (C43)	2.7	3.8	1.8	3.0	4.3	2.0	0.4	0.5	0.3	0.4	0.5	0.3
Malignant neoplasm of breast (C50)	15.3	0.3	27.0	14.9	0.3	26.4	17.5	0.5	29.9	21.1	0.7	35.6
Malignant neoplasm of cervix uteri (C53)	1.6		2.9	1.4		2.6	2.7		4.7	3.2		5.5
Malignant neoplasms of corpus uteri and uterus, part	1.0		2.0			2.0	,			0.2		0.0
unspecified (C54-C55)	2.4		4.1	2.3		3.9	3.4		5.7	4.2		6.9
Malignant neoplasm of ovary (C56)	5.0		8.9	5.2		9.2	4.0		6.8	4.4		7.5
Malignant neoplasm of prostate (C61)Malignant neoplasms of kidney and renal pelvis	11.7	30.9		10.7	28.4		19.6	52.1		24.3	66.5	
(C64-C65)	4.1	5.9	2.7	4.1	6.0	2.7	3.7	5.3	2.5	4.2	6.0	2.9
Malignant neoplasm of bladder (C67)	4.4	7.6	2.3	4.5	7.9	2.3	3.4	4.8	2.5	4.0	5.6	3.0
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	4.7	5.7	3.9	5.0	6.1	4.2	2.5	3.0	2.1	2.8	3.3	2.4
related tissue (C81-C96)	20.7	26.1	16.9	21.0	26.5	17.1	18.2	22.5	15.3	20.4	25.3	17.1
Hodgkin's disease (C81)	0.5	0.7	0.4	0.5	0.7	0.4	0.3	0.4	0.3	0.4	0.6	0.3
Non-Hodgkin's lymphoma (C82-C85)	8.4	10.3	7.0	8.8	10.7	7.3	5.5	7.2	4.3	5.7	7.4	4.5
Leukemia (C91-C95)	7.7	10.2	6.0	7.9	10.7	6.2	6.1	7.8	5.0	6.7	8.5	5.5
Multiple myeloma and immunoproliferative neoplasms (C88,C90)	4.1	4.9	3.4	3.7	4.6	3.1	6.3	7.1	5.7	7.6	8.8	6.8
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Table 15. Age-adjusted death rates for 113 selected causes by race and sex: United States, 1999 - Con.

									All o	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female									
Other and unspecified malignant neoplasms of												
lymphoid, hematopoietic and related tissue (C96) All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41,C44-C49,	0.0	0.0	0.0	0.0	0.0	0.0	*	*	*	*	*	*
C51-C52,C57-C60,C62-C63,C66,C68-C69, C73-C80,C97)	24.4	29.3	20.8	24.2	29.1	20.6	25.4	30.1	21.9	28.7	34.9	24.3
In situ neoplasms, benign neoplasms and neoplasms of	4.0	0.0		4.0		4.4	4.0	4 7	0.0	4.0	5 0	4.5
uncertain or unknown behavior (D00-D48)	4.9	6.0	4.1	4.9	6.2	4.1	4.2	4.7	3.9	4.9	5.3	4.5
Anemias (D50-D64)	1.6	1.7	1.6	1.4	1.4	1.4	3.0	3.0	2.9	3.7	3.7	3.6
Diabetes mellitus (E10-E14)	25.2	27.7	23.3	22.8	25.8	20.5	43.2	41.8	43.7	50.1	48.6	50.4
Nutritional deficiencies (E40-E64)	1.6	1.5	1.6	1.5	1.4	1.5	2.3	2.5	2.1	2.7	3.0	2.4
Malnutrition (E40-E46)	1.5	1.4	1.5	1.4	1.2	1.4	2.1	2.4	1.9	2.5	2.8	2.3
Other nutritional deficiencies (E50-E64)	0.1	0.1	0.1	0.1	0.1	0.1	0.2	*	0.2	0.2	*	0.2
Meningitis (G00,G03)	0.3	0.3	0.3	0.3	0.3	0.2	0.6	0.7	0.5	0.7	0.9	0.6
Parkinson's disease (G20-G21)	5.4	8.2	3.7	5.7	8.7	3.9	2.5	3.8	1.9	2.4	3.6	1.7
Alzheimer's disease (G30)	16.5	14.0	17.6	17.2	14.7	18.4	9.9	8.3	10.7	11.4	9.7	12.2
Major cardiovascular diseases (I00-I78)	350.9	414.8	300.3	343.7	408.4	292.1	391.4	451.0	345.8	450.9	520.9	398.0
Diseases of heart (I00-I09,I11,I13,I20-I51)	267.8	328.1	220.9	263.4	324.7	215.5	290.1	343.2	250.1	336.7	398.9	290.5
Acute rheumatic fever and chronic rheumatic heart												
disease (100-109)	1.4	0.9	1.6	1.4	0.9	1.7	1.1	0.7	1.3	1.0	0.8	1.2
Hypertensive heart disease (I11)	8.4	8.3	8.0	6.9	6.7	6.7	18.6	20.1	17.1	23.1	25.5	21.0
Hypertensive heart and renal disease (I13)	1.2	1.3	1.1	0.9	1.0	0.9	3.5	3.6	3.3	4.2	4.4	4.0
Ischemic heart disease (I20-I25)	195.6	249.0	154.9	194.5	249.4	152.5	198.1	239.5	167.4	226.4	272.6	192.5
Acute myocardial infarction (I21-I22)	73.6	95.4	57.1	73.5	96.3	56.2	72.9	87.3	62.5	83.7	99.8	72.2
Other acute ischemic heart diseases (I24)	1.2	1.5	0.9	1.1	1.4	0.9	1.5	2.0	1.1	1.8	2.4	1.3
Other forms of chronic ischemic heart disease												
(I20,I25)	120.8	152.1	96.9	119.8	151.7	95.4	123.7	150.3	103.8	140.9	170.4	119.0
Atherosclerotic cardiovascular disease, so												
described (I25.0)	26.5	33.3	20.9	24.8	31.0	19.5	39.0	50.5	30.3	46.2	60.5	35.7
All other forms of chronic ischemic heart disease												
(120, 125.1-125.9)	94.2	118.7	75.9	95.0	120.6	75.8	84.7	99.8	73.5	94.8	109.8	83.4
Other heart diseases (I26-I51)	61.2	68.5	55.2	59.7	66.6	53.8	68.8	79.4	60.9	81.9	95.7	71.8
Acute and subacute endocarditis (I33)	0.4	0.5	0.3	0.4	0.5	0.3	0.6	0.7	0.5	0.7	0.9	0.6
Diseases of pericardium and acute myocarditis												
(I30-I31,I40)	0.3	0.4	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.5	0.5	0.5
Heart failure (I50)	20.3	21.0	19.5	20.3	21.0	19.5	19.3	20.3	18.5	22.7	24.4	21.4
All other forms of heart disease	40.0	40.5	05.4	00.7	447	00.0	40.4	F7.0	44.4	F7.0	00.0	40.0
(126-128,134-138,142-149,151)	40.2	46.5	35.1	38.7	44.7	33.8	48.4	57.8	41.4	57.9	69.8	49.2
Essential (primary) hypertension and hypertensive	0.0	0.4	0.0	- 0		.	40.5	40.0	40.0	404	400	45.4
renal disease (I10,I12)	6.3	6.1	6.2	5.3	5.1	5.3	13.5	13.8	13.0	16.1	16.9	15.4
Cerebrovascular diseases (I60-I69)	61.8	62.4	60.5	59.8	60.0	58.7	74.1	78.4	70.4	82.4	87.4	78.1
Atherosclerosis (I70)	5.5	5.6	5.4	5.7	5.7	5.5	4.4	4.8	4.1	5.0	5.6	4.6
Other diseases of circulatory system (I71-I78)	9.5	12.7	7.2	9.5	12.9	7.1	9.3	10.8	8.2	10.6	12.1	9.4
Aortic aneurysm and dissection (I71)	5.8	8.7	3.8	5.9	9.0	3.8	4.6	6.1	3.7	5.0	6.3	4.0
Other diseases of arteries, arterioles and capillaries	0.7	4.0	0.5	0.0	0.0	0.0	4 7	4 7	4.0	- 0		- 1
(172-178)	3.7	4.0	3.5	3.6	3.8	3.3	4.7	4.7	4.6	5.6	5.8	5.4
Other disorders of circulatory system (I80-I99)	1.5	1.5	1.4	1.4	1.4	1.4	2.0	2.2	1.9	2.4	2.6	2.3
Influenza and pneumonia (J10-J18)	23.6	28.0	20.8	23.4	27.7	20.8	23.3	29.2	19.5	25.6	32.4	21.3
Influenza (J10-J11)	0.6	0.6	0.6	0.6	0.6	0.6	0.3	0.2	0.3	0.3	0.2	0.3
Pneumonia (J12-J18)	22.9	27.4	20.2	22.8	27.0	20.2	23.0	29.0	19.2	25.3	32.1	21.1
Other acute lower respiratory infections (J20-J22)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Acute bronchitis and bronchiolitis (J20-J21)	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2
Unspecified acute lower respiratory infection (J22)	0.1	0.0	0.1	0.1	0.0	0.1	*	*	*	*	*	*
Chronic lower respiratory diseases (J40-J47)	45.8	58.1	38.2	47.5	59.6	40.2	30.3	44.6	21.4	33.7	50.1	23.9
Bronchitis, chronic and unspecified (J40-J42)	0.4 6.5	0.5 8.6	0.4 5.2	0.4 6.9	0.5 8.9	0.4 5.7	0.4 3.6	0.4 5.9	0.3 2.1	0.4 4.0	0.4 6.6	0.3 2.4
Emphysema (J43)												

Table 15. Age-adjusted death rates for 113 selected causes by race and sex: United States, 1999 - Con.

									All o	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female									
Asthma (J45-J46)	1.7	1.4	2.0	1.4	1.0	1.7	3.4	3.3	3.5	3.9	3.6	4.2
Other chronic lower respiratory diseases (J44,J47)	37.0	47.8	30.6	38.7	49.2	32.5	23.0	35.0	15.5	25.4	39.5	17.0
Pneumoconioses and chemical effects (J60-J66,J68)	0.4	1.0	0.0	0.4	1.1	0.0	0.2	0.6	*	0.3	0.7	*
Pneumonitis due to solids and liquids (J69)	5.6	7.9	4.4	5.6	7.9	4.3	5.8	8.1	4.4	6.8	9.5	5.2
Other diseases of respiratory system (J00-J06,J30-J39,	0.0		0.0	0.0	44.0	7.0	0.7	40.0	7.0	0.5	44.0	0.0
J67,J70-J98)	9.2	11.1	8.0	9.2	11.2	7.9	8.7	10.0	7.9	9.5	11.0	8.6
Peptic ulcer (K25-K28)	1.7 0.1	2.0 0.2	1.4 0.1	1.7 0.1	2.0 0.2	1.4 0.1	1.8 0.2	2.2 0.3	1.4 0.1	1.9 0.2	2.4 0.4	1.4 0.1
Hernia (K40-K46)	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.5	0.1	0.2	0.4	0.6
Chronic liver disease and cirrhosis (K70,K73-K74)	9.7	13.7	6.1	9.7	13.7	6.1	9.5	13.6	6.2	10.2	15.1	6.4
Alcoholic liver disease (K70)	4.4	7.0	2.1	4.3	6.9	2.0	4.8	7.5	2.7	5.2	8.2	2.8
Other chronic liver disease and cirrhosis (K73-K74)	5.3	6.7	4.0	5.3	6.8	4.0	4.7	6.1	3.5	5.1	6.9	3.6
Cholelithiasis and other disorders of gallbladder (K80-K82)	1.0	1.2	1.0	1.0	1.2	0.9	1.1	1.2	1.1	1.1	1.1	1.1
Nephritis, nephrotic syndrome and nephrosis												
(N00-N07,N17-N19,N25-N27)	13.1	16.2	11.2	11.6	14.8	9.7	24.0	27.1	21.9	28.6	32.9	26.0
Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	*	0.1	*	*
Chronic glomerulonephritis, nephritis and nephropathy,												
not specified as acute or chronic, and renal sclerosis,												
unspecified (N02-N03,N05-N07,N26)	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.5	0.3	0.4	0.5	0.3
Renal failure (N17-N19)	12.8	15.9	11.0	11.4	14.5	9.5	23.4	26.4	21.5	28.1	32.3	25.5
Other disorders of kidney (N25,N27)	0.0 0.3	0.2	0.0 0.3	0.0 0.3	0.3	0.4	0.3	0.2	0.3	0.4	0.3	0.4
Hyperplasia of prostate (N40)	0.3	0.2		0.3	0.5		0.3	0.2		0.4	0.3	
Inflammatory diseases of female pelvic organs	0.2	0.5		0.2	0.5		0.1	0.4		0.2	0.5	
(N70-N76)	0.0		0.1	0.0		0.0	0.1		0.1	0.1		0.2
Pregnancy, childbirth and the puerperium (O00-O99)	0.2		0.3	0.1		0.2	0.4		0.7	0.4		0.8
Pregnancy with abortive outcome (O00-O07)	0.0		0.0	*		*	*		*	*		*
Other complications of pregnancy, childbirth and the												
puerperium (O10-O99)	0.1		0.3	0.1		0.2	0.3		0.6	0.4		0.7
Certain conditions originating in the perinatal period												
(P00-P96)	5.1	5.7	4.6	3.9	4.4	3.5	9.8	10.8	8.7	12.5	13.9	11.1
Congenital malformations, deformations and	0.0	4.0	0.0	0.7	0.0	0.5	4.0	4.0	0.0	4.0	4.0	4.0
chromosomal abnormalities (Q00-Q99)	3.8	4.0	3.6	3.7	3.9	3.5	4.0	4.3	3.8	4.6	4.9	4.3
Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	9.8	10.9	8.5	9.1	10.1	8.0	12.8	15.3	10.6	15.7	19.2	12.8
All other diseases (Residual)	63.4	63.7	61.4	62.0	61.9	60.3	69.3	74.3	64.9	81.9	88.6	76.3
Accidents (unintentional injuries) (V01-X59,Y85-Y86)	35.9	50.6	22.7	35.7	50.0	22.7	36.6	54.2	22.0	40.9	62.1	23.7
Transport accidents (V01-V99,Y85)	17.0	24.1	10.4	17.1	24.1	10.5	16.6	24.5	9.9	17.6	27.0	9.7
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)	15.5	21.8	9.8	15.6	21.8	9.9	15.3	22.3	9.3	16.2	24.7	9.2
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)	0.8	1.2	0.4	0.8	1.2	0.4	0.8	1.3	0.4	0.8	1.3	0.3
Water, air and space, and other and unspecified	0.0	1.2	0.4	0.0	1.2	0.4	0.0	1.0	0.4	0.0	1.0	0.0
transport accidents and their seguelae												
(V90-V99.Y85)	0.7	1.2	0.3	0.7	1.2	0.3	0.5	1.0	0.2	0.5	1.0	0.2
Nontransport accidents (W00-X59,Y86)	18.9	26.4	12.3	18.6	25.8	12.1	20.0	29.6	12.2	23.4	35.1	14.0
Falls (W00-W19)	4.8	6.6	3.6	5.0	6.7	3.7	3.5	5.3	2.2	3.5	5.2	2.2
Accidental discharge of firearms (W32-W34)	0.3	0.5	0.1	0.3	0.5	0.1	0.3	0.6	0.1	0.4	0.8	0.1

Table 15. Age-adjusted death rates for 113 selected causes by race and sex: United States, 1999 - Con.

									All o	ther		
		All races			White			Total			Black	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Accidental drowning and submersion (W65-W74) Accidental exposure to smoke, fire and flames	1.3	2.1	0.5	1.2	1.9	0.5	1.6	2.8	0.6	1.7	3.0	0.6
(X00-X09)	1.2	1.6	0.9	1.0	1.4	0.7	2.4	3.2	1.9	3.0	4.0	2.3
Accidental poisoning and exposure to noxious substances (X40-X49) Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,	4.5	6.6	2.3	4.4	6.5	2.3	5.1	7.8	2.7	6.4	10.1	3.3
X10-X39,X50-X59,Y86)	6.8	9.0	4.8	6.7	8.9	4.8	7.0	10.0	4.8	8.3	12.1	5.6
Intentional self-harm (suicide) (X60-X84,Y87.0)Intentional self-harm (suicide) by discharge of firearms	10.7	18.2	4.1	11.5	19.4	4.4	6.2	10.7	2.2	5.7	10.4	1.6
(X72-X74)	6.1	11.4	1.5	6.6	12.2	1.7	3.1	6.0	0.6	3.3	6.6	0.6
Y87.0)	4.6	6.8	2.6	4.9	7.2	2.8	3.0	4.7	1.6	2.4	3.9	1.1
Assault (homicide) (X85-Y09,Y87.1)	6.2	9.4	2.9	3.8	5.5	2.2	16.1	26.9	6.3	20.6	34.9	7.5
(X93-X95)	4.0	6.5	1.4	2.2	3.4	1.0	11.3	20.2	3.0	14.7	26.6	3.6
their sequelae (X85-X92,X96-Y09,Y87.1)	2.2	2.9	1.6	1.6	2.1	1.2	4.8	6.7	3.3	5.9	8.3	3.9
Legal intervention (Y35,Y89.0)	0.2	0.3	*	0.1	0.2	*	0.3	0.6	*	0.3	0.7	*
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	1.4	2.0	0.9	1.4	1.9	0.9	1.7	2.7	0.8	2.0	3.3	0.9
Discharge of firearms, undetermined intent (Y22-Y24) Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,	0.1	0.2	0.0	0.1	0.2	0.0	0.2	0.3	*	0.2	0.3	*
Y89.9)	1.3	1.8	0.9	1.3	1.7	0.9	1.5	2.4	0.8	1.9	3.0	0.9
Operations of war and their sequelae (Y36,Y89.1) Complications of medical and surgical care	0.0	0.0	*	0.0	0.0	*	*	*	*	*	*	*
(Y40-Y84,Y88)	1.0	1.2	1.0	1.0	1.1	0.9	1.5	1.7	1.4	1.8	1.9	1.7

^{0.0} Quantity more than zero but less than 0.05.

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States--California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

^{*} Figure does not meet standards of reliability or precision, see Technical notes.
... Category not applicable.

Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999

Cause of death (Based on the Tenth		All origins ¹			Hispanic			Non-Hispanio	,2
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	881.9	1,061.8	743.6	601.0	736.0	490.1	894.9	1,076.6	756.0
Salmonella infections (A01-A02)	0.0	0.0	*	*	*	*	0.0	*	*
(A04,A07-A09)	0.4	0.4	0.4	0.2	*	*	0.4	0.4	0.4
Tuberculosis (A16-A19)	0.3	0.5	0.2	0.7	1.0	0.5	0.3	0.5	0.2
Respiratory tuberculosis (A16) Other tuberculosis (A17-A19)	0.3 0.1	0.4 0.1	0.2 0.0	0.6 0.1	0.7 0.2	0.4	0.3 0.1	0.4 0.1	0.2 0.0
Whooping cough (A37)	*	*	0.0 *	*	*	*	*	*	*
Scarlet fever and erysipelas (A38,A46)	*	*	*	*	*	*	*	*	*
Meningococcal infection (A39)	0.1	0.1	0.1	0.1		*	0.1	0.1	0.1
Septicemia (A40-A41) Syphilis (A50-A53)	11.3 0.0	12.4	10.5 0.0	7.7	8.7	6.8	11.5 0.0	12.6	10.7
Acute poliomyelitis (A80)	*	*	*	*	*	*	*	*	*
Arthropod-borne viral encephalitis									
(A83-A84,A85.2)	*	*	*	*	*	*	*	*	*
Measles (B05) Viral hepatitis (B15-B19)	1.8	2.4	1.2	3.4	4.2	2.6	1.6	2.3	1.1
Human immunodeficiency virus (HIV)	1.0			0.1		2.0	1.0	2.0	
disease (B20-B24)	5.4	8.4	2.6	7.3	11.5	3.1	5.2	8.0	2.5
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)	2.7	3.1	2.3	2.4	2.6	2.3	2.7	3.1	2.4
Malignant neoplasms (C00-C97)	202.7	251.6	169.9	122.0	151.4	101.4	207.2	257.1	173.8
Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	2.8	4.2	1.6	1.7	2.8	0.9	2.8	4.3	1.7
Malignant neoplasm of esophagus (C15)	4.4	7.7	1.8	2.3	4.2	0.9	4.5	7.9	1.9
Malignant neoplasm of stomach (C16)	4.7	6.6	3.3	6.4	8.4	4.8	4.5	6.4	3.2
Malignant neoplasms of colon, rectum and	04.4	05.0	40.4	40.0	45.0	40.7	04.5	05.7	40.4
anus (C18-C21) Malignant neoplasms of liver and	21.1	25.2	18.1	12.8	15.6	10.7	21.5	25.7	18.4
intrahepatic bile ducts (C22)	4.6	6.5	3.0	6.6	9.2	4.5	4.4	6.3	2.9
Malignant neoplasm of pancreas (C25)	10.7	12.3	9.4	7.1	7.9	6.5	10.9	12.5	9.6
Malignant neoplasm of larynx (C32)	1.4	2.6	0.5	1.1	2.2	0.3	1.4	2.6	0.6
Malignant neoplasms of trachea, bronchus and lung (C33-C34)	56.0	77.0	40.8	22.5	35.2	13.1	58.0	79.4	42.5
Malignant melanoma of skin (C43)	2.7	3.8	1.8	0.7	0.9	0.5	2.8	4.0	1.9
Malignant neoplasm of breast (C50)	15.3	0.3	27.0	8.6	*	15.4	15.7	0.3	27.7
Malignant neoplasm of cervix uteri (C53)	1.6		2.9	1.8		3.4	1.5		2.8
Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)	2.4		4.1	1.6		2.9	2.4		4.2
Malignant neoplasm of ovary (C56)	5.0		8.9	2.8		5.1	5.2		9.1
Malignant neoplasm of prostate (C61)	11.7	30.9		7.5	19.0		11.9	31.5	
Malignant neoplasms of kidney and renal	4.1	5.9	2.7	3.3	4.7	2.1	4.1	6.0	2.8
pelvis (C64-C65)	4.1	7.6	2.7	2.0	3.5	0.9	4.1 4.5	7.8	2.4
Malignant neoplasms of meninges, brain									
and other parts of central nervous	4 7	F 7	0.0	0.0	0.0	0.5	4.0	F 0	4.0
system (C70-C72)	4.7	5.7	3.9	2.8	3.0	2.5	4.8	5.9	4.0
hematopoietic and related tissue									
(C81-C96)	20.7	26.1	16.9	14.1	16.2	12.4	21.1	26.6	17.1
Hodgkin's disease (C81)	0.5	0.7	0.4	0.6	0.8	0.5	0.5	0.6	0.4
Non-Hodgkin's lymphoma (C82-C85) Leukemia (C91-C95)	8.4 7.7	10.3 10.2	7.0 6.0	5.7 4.9	6.5 5.8	5.0 4.2	8.6 7.8	10.5 10.4	7.1 6.1
Multiple myeloma and	7.7	10.2	0.0	4.0	5.0	7.2	7.0	10.4	0.1
immunoproliferative neoplasms									
(C88,C90)	4.1	4.9	3.4	2.9	3.1	2.7	4.1	5.0	3.5
Other and unspecified malignant neoplasms of lymphoid.									
hematopoietic and related									
tissue (C96)	0.0	0.0	0.0	*	*	*	0.0	0.0	0.0
C73-C80,C97) In situ neoplasms, benign neoplasms and	24.4	29.3	20.8	16.2	18.7	14.4	24.8	29.9	21.2
neoplasms of uncertain or unknown behavior (D00-D48)	4.9	60	11	2.0	2.0	0.0	E 0	6.0	4.0
UCHAVIOL (DOU-D40)		6.0	4.1	2.9	3.0	2.8	5.0	6.2	4.2
Anemias (D50-D64)	1.6	1.7	1.6	1.0	1.2	0.9	1.7	1.7	1.7

Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Racad on the Tonth	Nor	n-Hispanic W	hite	Noi	n-Hispanic B	lack
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female
All causes	869.4	1,045.1	734.9	1,177.0	1,451.0	979.3
Salmonella infections (A01-A02)	0.0	*	*	*	*	*
Certain other intestinal infections (A04,A07-A09)	0.4	0.4	0.4	0.3	0.3	0.4
Tuberculosis (A16-A19)	0.2	0.3	0.1	1.0	1.5	0.6
Respiratory tuberculosis (A16)	0.2	0.3	0.1	0.8	1.2	0.5
Other tuberculosis (A17-A19)	0.0	0.0	0.0	0.2	0.3	*
Whooping cough (A37)	*	*	*	*	*	*
Meningococcal infection (A39)	0.1	0.1	0.1	0.1	0.1	*
Septicemia (A40-A41)	10.2	11.1	9.5	25.5	28.9	23.0
Syphilis (A50-A53)	*	*	*	*	*	*
Acute poliomyelitis (A80)						
(A83-A84,A85.2)	*	*	*	*	*	*
Measles (B05)	*	*	*	*	*	*
Viral hepatitis (B15-B19)	1.5	2.0	1.0	2.7	3.6	1.9
Human immunodeficiency virus (HIV) disease (B20-B24)	2.4	4.1	0.7	24.9	38.2	12.0
Malaria (B50-B54)	Z. 4 *	*	*	24.5	*	13.8
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)	2.4	2.8	2.1	4.8	5.6	4.2
Malignant neoplasms (C00-C97)	203.8	251.4	172.1	261.4	350.1	205.6
Malignant neoplasms of lip, oral cavity and						
pharynx (C00-C14)	2.6	3.9	1.6	4.5	7.8	2.2
Malignant neoplasm of esophagus (C15) Malignant neoplasm of stomach (C16)	4.4 3.9	7.7 5.5	1.7 2.7	6.7 9.5	11.8 13.7	3.2 6.7
Malignant neoplasms of colon, rectum and	0.0	0.0	,	0.0	10.7	0.7
anus (C18-C21)	21.0	25.2	17.8	29.3	34.5	25.8
Malignant neoplasms of liver and	4.0		0.0	0.0	0.0	4.0
intrahepatic bile ducts (C22) Malignant neoplasm of pancreas (C25)	4.0 10.6	5.7 12.3	2.6 9.3	6.2 14.6	9.0 16.8	4.0 12.9
Malignant neoplasm of larynx (C32)	1.3	2.3	0.5	2.7	5.2	0.9
Malignant neoplasms of trachea, bronchus						
and lung (C33-C34)	58.0	78.2	43.4	67.0	104.8	41.7
Malignant melanoma of skin (C43) Malignant neoplasm of breast (C50)	3.2 15.3	4.5 0.3	2.1 27.0	0.4 21.7	0.5 0.7	0.3 36.7
Malignant neoplasm of cervix uteri (C53)	1.3		2.5	3.2		5.6
Malignant neoplasms of corpus uteri and						
uterus, part unspecified (C54-C55)	2.3		4.0	4.3		7.1
Malignant neoplasm of ovary (C56)	5.3	20.0	9.5	4.5	60.1	7.6
Malignant neoplasm of prostate (C61) Malignant neoplasms of kidney and renal	10.9	28.8		24.9	68.1	
pelvis (C64-C65)	4.2	6.0	2.8	4.3	6.2	3.0
Malignant neoplasm of bladder (C67)	4.6	8.1	2.4	4.1	5.7	3.1
Malignant neoplasms of meninges, brain						
and other parts of central nervous system (C70-C72)	5.2	6.3	4.3	2.8	3.4	2.4
Malignant neoplasms of lymphoid,	0.2	0.0		2.0	0	
hematopoietic and related tissue						
(C81-C96) Hodgkin's disease (C81)	21.3 0.6	26.9 0.7	17.2 0.4	21.0 0.4	26.1 0.6	17.6 0.3
Non-Hodgkin's lymphoma (C82-C85)	8.9	10.9	7.4	5.8	7.6	4.6
Leukemia (C91-C95)	8.0	10.6	6.2	6.9	8.9	5.6
Multiple myeloma and						
immunoproliferative neoplasms	0.0	4.7	0.1	7.0	0.0	7.0
(C88,C90) Other and unspecified malignant neoplasms of lymphoid,	3.8	4.7	3.1	7.8	9.0	7.0
hematopoietic and related tissue (C96)	0.0	0.0	0.0	*	*	*
C37-C41,C44-C49,C51-C52, C57-C60,C62-C63,C66,C68-C69, C73-C80,C97)	24.6	29.6	20.9	29.5	35.9	25.0
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	5.0	6.3	4.2	5.0	5.4	4.6
neoplasms of uncertain or unknown	5.0 1.4 21.9	6.3 1.4 25.0	4.2 1.4 19.5	5.0 3.8 51.4	5.4 3.8 50.1	4.6 3.7 51.7

Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

		All origins ¹			Hispanic		N	on-Hispanic	2
Cause of death (Based on the Tenth Revision, International Classification of	Both			Both			Both		
Diseases, 1992)	sexes	Male	Female	sexes	Male	Female	sexes	Male	Female
Nutritional deficiencies (E40-E64)	1.6	1.5	1.6	1.0	1.0	1.0	1.6	1.5	1.6
Malnutrition (E40-E46)	1.5	1.4	1.5	1.0	1.0	1.0	1.5	1.4	1.5
Other nutritional deficiencies (E50-E64)	0.1	0.1	0.1		^ *	*	0.1	0.1	0.1
Meningitis (G00,G03) Parkinson's disease (G20-G21)	0.3 5.4	0.3 8.2	0.3 3.7	0.3 2.9	0.3 4.2	0.3 2.1	0.3 5.5	0.3 8.4	0.3 3.8
Alzheimer's disease (G30)	16.5	14.0	17.6	7.7	6.4	8.4	16.9	14.4	18.0
Major cardiovascular diseases (I00-I78) Diseases of heart (I00-I09,I11,I13,	350.9	414.8	300.3	229.2	273.0	194.1	356.5	421.6	304.9
I20-I51)Acute rheumatic fever and chronic	267.8	328.1	220.9	176.1	212.7	146.5	272.0	333.6	224.2
rheumatic heart diseases (I00-I09)	1.4	0.9	1.6	1.0	0.4	1.4	1.4	0.9	1.6
Hypertensive heart disease (I11)	8.4	8.3	8.0	6.0	6.3	5.6	8.5	8.4	8.1
Hypertensive heart and renal disease (I13)	1.2	1.3	1.1	1.0	1.0	0.9	1.2	1.3	1.2
Ischemic heart diseases (I20-I25)	195.6	249.0	154.9	138.4	170.4	112.8	198.1	252.7	156.6
Acute myocardial infarction (I21-I22) Other acute ischemic heart diseases	73.6	95.4	57.1	49.2	61.0	39.8	74.9	97.3	57.9
(I24) Other forms of chronic ischemic heart	1.2	1.5	0.9	0.3	0.4	0.3	1.2	1.6	1.0
disease (I20,I25)	120.8	152.1	96.9	88.9	109.1	72.7	122.0	153.8	97.7
Atherosclerotic cardiovascular									
disease, so described (I25.0)	26.5	33.3	20.9	20.2	27.2	14.5	26.7	33.4	21.1
All other forms of chronic ischemic	04.0	440.7	75.0	00.7	04.0	50.0	05.0	100.1	70.0
heart disease (I20, I25.1-I25.9) Other heart diseases (I26-I51)	94.2 61.2	118.7 68.5	75.9 55.2	68.7 29.8	81.8 34.6	58.2 25.8	95.2 62.8	120.4 70.3	76.6 56.6
Acute and subacute endocarditis (I33)	0.4	0.5	0.3	0.3	0.5	0.2	0.4	0.5	0.3
Diseases of pericardium and acute	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0
myocarditis (I30-I31,I40)	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.4	0.3
Heart failure (I50)	20.3	21.0	19.5	9.2	9.5	8.8	20.8	21.6	20.0
All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)	40.2	46.5	35.1	20.0	24.4	16.5	41.3	47.8	36.0
Essential (primary) hypertension and hypertensive renal disease (I10,I12)	6.3	6.1	6.2	5.2	5.5	4.9	6.3	6.1	6.3
Cerebrovascular diseases (160-169)	61.8	62.4	60.5	40.0	44.6	36.3	62.8	63.1	61.6
Atherosclerosis (I70)Other diseases of circulatory system	5.5	5.6	5.4	3.1	3.6	2.8	5.6	5.7	5.5
(171-178)	9.5	12.7	7.2	4.9	6.7	3.6	9.7	13.0	7.4
Aortic aneurysm and dissection (I71)	5.8	8.7	3.8	2.5	3.9	1.5	6.0	9.0	3.9
Other diseases of arteries, arterioles	0.7	4.0	0.5	0.4	0.0	0.4	0.7	4.0	0.5
and capillaries (172-178) Other disorders of circulatory system	3.7	4.0	3.5	2.4	2.8	2.1	3.7	4.0	3.5
(180-199)	1.5	1.5	1.4	1.1	1.1	1.1	1.5	1.5	1.5
Influenza and pneumonia (J10-J18)	23.6	28.0	20.8	15.6	18.6	13.5	23.9	28.4	21.1
Influenza (J10-J11)	0.6	0.6	0.6	0.3	0.2	0.3	0.6	0.6	0.6
Pneumonia (J12-J18) Other acute lower respiratory infections	22.9	27.4	20.2	15.3	18.3	13.3	23.2	27.7	20.5
(J20-J22)	0.2	0.2	0.2	0.1	*	*	0.2	0.2	0.2
Acute bronchitis and bronchiolitis	0.4	0.4	0.4	0.4		*	0.4	0.4	0.4
(J20-J21) Unspecified acute lower respiratory	0.1	0.1	0.1	0.1	•	*	0.1	0.1	0.1
infection (J22)	0.1	0.0	0.1	*	*	*	0.1	0.0	0.1
Chronic lower respiratory diseases	45.0	E0 1	20.0	10.0	07.0	15.0	47.1	FO 0	20.4
(J40-J47) Bronchitis, chronic and unspecified	45.8	58.1	38.2	19.9	27.3	15.3	47.1	59.8	39.4
(J40-J42)	0.4	0.5	0.4	0.3	*	0.4	0.4	0.5	0.4
Emphysema (J43)	6.5	8.6	5.2 2.0	2.1 1.7	3.2	1.3 2.0	6.8	8.9	5.5
Asthma (J45-J46) Other chronic lower respiratory diseases	1.7	1.4	2.0	1.7	1.2	2.0	1.7	1.4	2.0
(J44,J47)	37.0	47.8	30.6	15.9	22.5	11.6	38.1	49.0	31.6
Pneumoconioses and chemical effects									
(J60-J66,J68)	0.4	1.0	0.0	*	*	*	0.4	1.1	0.0
Pneumonitis due to solids and liquids (J69) Other diseases of respiratory system	5.6	7.9	4.4	3.0	3.7	2.6	5.8	8.1	4.4
(J00-J06,J30-J39,J67,J70-J98)	9.2	11.1	8.0	7.3	8.6	6.3	9.3	11.2	8.0
Peptic ulcer (K25-K28)	1.7	2.0	1.4	1.1	1.6	0.8	1.7	2.0	1.5
Diseases of appendix (K35-K38)	0.1	0.2	0.1	0.1	0.2	*	0.1	0.2	0.1
Hernia (K40-K46)	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.6	0.5
Chronic liver disease and cirrhosis (K70,K73-K74)	9.7	13.7	6.1	15.3	23.0	8.5	9.2	12.9	6.0
Alcoholic liver disease (K70)	4.4	7.0	2.1	7.4	13.3	2.3	4.2	6.5	2.1
Other chronic liver disease and cirrhosis									
(K73-K74) Cholelithiasis and other disorders of	5.3	6.7	4.0	7.9	9.7	6.2	5.1	6.5	3.9
gallbladder (K80-K82)	1.0	1.2	1.0	1.3	1.4	1.2	1.0	1.2	0.9
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Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Course of death (Deceded to the Territ	Non	-Hispanic W	/hite	Non	-Hispanic B	lack
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female
Nutritional deficiencies (E40-E64)	1.5	1.4	1.6	2.8	3.1	2.5
Malnutrition (E40-E46)	1.4	1.3	1.5	2.5	2.9	2.3
Other nutritional deficiencies (E50-E64)	0.1	0.1	0.1	0.2	*	0.2
Meningitis (G00,G03)	0.3	0.3	0.2	0.7	0.9	0.6
Parkinson's disease (G20-G21)	5.8	9.0	4.0	2.4	3.7	1.8
Alzheimer's disease (G30)	17.6 348.2	15.1	18.8	11.6 461.4	9.9	12.4
Major cardiovascular diseases (I00-I78) Diseases of heart (I00-I09,I11,I13,		414.0	295.8		533.5	407.2
I20-I51) Acute rheumatic fever and chronic	266.9	329.5	218.1	344.3	408.2	297.0
rheumatic heart diseases (I00-I09)	1.4	1.0	1.7	1.1	0.8	1.3
Hypertensive heart disease (I11)	6.9 0.9	6.7 1.0	6.7 0.8	23.7 4.3	26.1 4.5	21.4 4.1
(I13)Ischemic heart diseases (I20-I25)	196.6	252.8	153.7	231.1	278.4	196.6
Acute myocardial infarction (I21-I22)	74.7	98.1	56.8	85.8	102.6	73.9
Other acute ischemic heart diseases (I24)	1.2	1.5	0.9	1.8	2.5	1.3
Other forms of chronic ischemic heart disease (I20,I25)	120.7	153.2	96.0	143.5	173.3	121.3
Atherosclerotic cardiovascular disease, so described (I25.0)	24.8	30.9	19.7	47.0	61.5	36.3
All other forms of chronic ischemic						-
heart disease (I20, I25.1-I25.9) Other heart diseases (I26-I51)	95.9 61.1	122.2 68.2	76.3 55.1	96.5 84.1	111.8 98.4	85.0 73.7
Acute and subacute endocarditis (I33)	0.4	0.5	0.3	0.8	1.0	0.6
Diseases of pericardium and acute myocarditis (I30-I31,I40)	0.3	0.3	0.3	0.6	0.6	0.5
Heart failure (I50)All other forms of heart disease	20.8	21.6	20.0	23.2	25.0	21.9
(126-128,134-138,142-149,151)	39.6	45.8	34.6	59.5	71.9	50.6
Essential (primary) hypertension and hypertensive renal disease (I10,I12)	5.2	5.1	5.2	16.6	17.4	15.8
Cerebrovascular diseases (I60-I69)	60.5	60.5	59.6	84.5	89.7	80.0
Atherosclerosis (I70)	5.8	5.8	5.6	5.1	5.7	4.7
Other diseases of circulatory system (I71-I78)	9.7	13.2	7.2	10.8	12.4	9.7
Aortic aneurysm and dissection (I71)	6.1	9.3	3.9	5.1	6.5	4.1
Other diseases of arteries, arterioles and capillaries (I72-I78)	3.6	3.9	3.4	5.8	6.0	5.6
Other disorders of circulatory system (I80-I99)	1.4	1.4	1.3	2.5	2.7	2.3
Influenza and pneumonia (J10-J18)	23.7	28.0	21.1	26.1	33.0	21.7
Influenza (J10-J11)	0.6	0.7	0.6	0.3	0.3	0.3
Pneumonia (J12-J18)	23.0	27.3	20.4	25.8	32.8	21.4
Other acute lower respiratory infections (J20-J22)	0.2	0.2	0.2	0.2	0.2	0.2
Acute bronchitis and bronchiolitis (J20-J21)	0.1	0.1	0.1	0.2	0.2	0.2
Unspecified acute lower respiratory				*	*	*
infection (J22) Chronic lower respiratory diseases	0.1	0.0	0.1			
(J40-J47) Bronchitis, chronic and unspecified	48.9	61.3	41.5	34.5	51.4	24.5
(J40-J42)	0.4	0.5	0.4	0.4	0.5	0.3
Emphysema (J43)	7.2	9.2	5.9	4.1	6.8	2.4
Asthma (J45-J46)Other chronic lower respiratory diseases	1.4	1.0	1.7	4.1	3.7	4.3
(J44,J47)	39.9	50.6	33.6	26.0	40.5	17.4
(J60-J66,J68)	0.4	1.1	0.0	0.3	0.8	*
Pneumonitis due to solids and liquids (J69) Other diseases of respiratory system	5.7	8.1	4.4	7.0	9.7	5.4
(J00-J06,J30-J39,J67,J70-J98)	9.3	11.2	7.9	9.8	11.3	8.8
Peptic ulcer (K25-K28)	1.7	2.0	1.5	1.9	2.4	1.5
Diseases of appendix (K35-K38)	0.1	0.2	0.1	0.3	0.4	0.1
Hernia (K40-K46) Chronic liver disease and cirrhosis	0.5	0.6	0.5	0.6	0.6	0.6
(K70,K73-K74)	9.1	12.7	5.8	10.5	15.6	6.6
Alcoholic liver disease (K70) Other chronic liver disease and cirrhosis	4.0	6.2	2.0	5.3	8.5	2.9
(K73-K74)	5.1	6.4	3.9	5.2	7.1	3.7
Cholelithiasis and other disorders of gallbladder (K80-K82)	1.0	1.2	0.9	1.1	1.1	1.1
See footnotes at end of table.						

Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Based on the Tenth		All origins ¹			Hispanic		N	Ion-Hispanio	;2
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Nephritis, nephrotic syndrome and nephrosis									
(N00-N07,N17-N19,N25-N27) Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,	13.1	16.2	11.2	10.4	12.9	8.8	13.2	16.4	11.3
N04) Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute	0.1	0.1	0.1	*	*	*	0.1	0.1	0.1
or chronic, and renal sclerosis, unspecified (N02-N03,N05-N07,	0.0	0.2	0.0	0.0	*	*	0.0	0.2	0.0
N26) Renal failure (N17-N19) Other disorders of kidney (N25,N27)	0.2 12.8 0.0	0.3 15.9 *	0.2 11.0 0.0	0.2 10.1 *	12.6	8.5	0.2 12.9 0.0	0.3 16.0 *	0.2 11.1 0.0
Infections of kidney (N10-N12,N13.6, N15.1)	0.3 0.2	0.2 0.5	0.3	0.3	0.3	0.4	0.3 0.2	0.2 0.5	0.3
Inflammatory diseases of female pelvic organs (N70-N76)	0.2		0.1	*		*	0.2		0.1
Pregnancy, childbirth and the puerperium (000-099)	0.2		0.3	0.2		0.4	0.1		0.3
Pregnancy with abortive outcome (O00-O07)	0.0		0.0	*		*	0.0		0.0
Other complications of pregnancy, childbirth and the puerperium	0.1		0.0	0.0		0.4	0.1		0.0
(O10-O99) Certain conditions originating in the perinatal period (P00-P96)	0.1 5.1	5.7	0.3 4.6	0.2 4.1	4.5	0.4 3.8	0.1 5.3	5.8	0.2 4.7
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	3.8	4.0	3.6	3.5	3.5	3.5	3.8	4.0	3.6
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	9.8	10.9	8.5	4.9	6.0	3.9	10.1	11.3	8.8
All other diseases (Residual)	63.4	63.7	61.4	42.2	45.2	38.9	64.4	64.5	62.5
(V01-X59,Y85-Y86) Transport accidents (V01-V99,Y85) Motor vehicle accidents (V02-V04,	35.9 17.0	50.6 24.1	22.7 10.4	31.1 16.2	47.2 24.1	15.6 8.5	36.0 17.0	50.3 23.9	23.2 10.6
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)	15.5	21.8	9.8	15.0	21.9	8.1	15.5	21.6	9.9
V82.2-V82.9,V87.9,V88.9,V89.1, V89.3,V89.9) Water, air and space, and other and	0.8	1.2	0.4	0.9	1.6	0.3	0.7	1.2	0.4
unspecified transport accidents and their sequelae (V90-V99,Y85)	0.7	1.2	0.3	0.3	0.5	*	0.7	1.2	0.3
Nontransport accidents (W00-X59,Y86) Falls (W00-W19)	18.9 4.8	26.4 6.6	12.3 3.6	14.9 3.6	23.2 5.4	7.0 2.2	19.0 4.9	26.3 6.6	12.6 3.6
Accidental discharge of firearms (W32-W34) Accidental drowning and submersion	0.3	0.5	0.1	0.2	0.3	*	0.3	0.5	0.1
(W65-W74)Accidental exposure to smoke, fire and	1.3	2.1	0.5	1.3	2.2	0.4	1.3	2.0	0.5
flames (X00-X09)	1.2	1.6	0.9	0.7	1.0	0.4	1.3	1.7	0.9
noxious substances (X40-X49) Other and unspecified nontransport accidents and their sequelae	4.5	6.6	2.3	5.2	8.7	1.7	4.3	6.3	2.4
(W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86)	6.8	9.0	4.8	3.8	5.5	2.4	6.9	9.2	5.0
Intentional self-harm (suicide) (X60-X84,Y87.0)	10.7	18.2	4.1	6.1	10.7	1.9	11.1	18.9	4.3
Intentional self-harm (suicide) by discharge of firearms (X72-X74)	6.1	11.4	1.5	2.9	5.4	0.6	6.4	11.9	1.6
unspecified means and their sequelae (X60-X71,X75-X84,Y87.0)	4.6 6.2	6.8 9.4	2.6 2.9	3.2 8.4	5.2 13.8	1.3 2.8	4.8 5.8	7.0 8.6	2.7 2.9
Assault (homicide) by discharge of firearms (X93-X95)	4.0	6.5	1.4	5.5	9.5	1.4	3.7	6.0	1.3
and unspecified means and their sequelae (X85-X92,X96-Y09,Y87.1)	2.2	2.9	1.6	2.8	4.3	1.4	2.1	2.6	1.6

Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Cause of death (Based on the Tenth	Non	-Hispanic W	/hite	Nor	ı-Hispanic B	lack
Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female
Nonhritic nonhrotic syndrome and nonhrosis						
Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	11.6	14.8	9.7	29.4	33.8	26.6
and nephrotic syndrome (N00-N01, N04)	0.0	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)	0.2	0.2	0.2	0.4	0.5	0.3
Renal failure (N17-N19) Other disorders of kidney (N25,N27)	11.3	14.4	9.5	28.8	33.2	26.1
Infections of kidney (N10-N12,N13.6, N15.1)	0.3	0.2	0.4	0.4	0.3	0.4
Hyperplasia of prostate (N40)	0.2	0.5		0.2	0.5	
Inflammatory diseases of female pelvic						
organs (N70-N76) Pregnancy, childbirth and the puerperium	0.0		0.0	0.1		0.2
Pregnancy with abortive outcome	0.1	• • •	0.2	0.4	• • •	0.8
(O00-O07) Other complications of pregnancy, childbirth and the puerperium					•••	
(O10-O99)	0.1		0.1	0.4		0.8
period (P00-P96)	3.7	4.1	3.3	13.1	14.5	11.6
chromosomal abnormalities (Q00-Q99) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere	3.6	3.8	3.4	4.8	5.1	4.5
classified (R00-Ř99)All other diseases (Residual)	9.4 62.7	10.3 62.3	8.2 61.1	16.2 84.1	19.8 91.2	13.2 78.3
Accidents (unintentional injuries) (V01-X59,Y85-Y86) Transport accidents (V01-V99,Y85)	35.5 16.9	49.1 23.7	23.1 10.7	42.2 18.1	64.2 28.0	24.4 10.0
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,	10.0	20.7	10.7	10.1	20.0	10.0
V89.2)	15.4	21.3	10.0	16.8	25.6	9.5
V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1,						
V89.3,V89.9)Water, air and space, and other and	0.8	1.1	0.4	0.8	1.3	0.3
unspecified transport accidents and	0.0	1.0	0.0	0.6	1.0	0.0
their sequelae (V90-V99,Y85) Nontransport accidents (W00-X59,Y86)	0.8 18.5	1.3 25.5	0.3 12.4	0.6 24.0	1.0 36.2	0.2 14.4
Falls (W00-W19)Accidental discharge of firearms	5.0	6.7	3.8	3.5	5.3	2.2
(W32-W34) Accidental drowning and submersion	0.3	0.5	0.1	0.4	8.0	0.1
(W65-W74) Accidental exposure to smoke, fire and	1.2	1.8	0.5	1.8	3.1	0.6
flames (X00-X09) Accidental poisoning and exposure to	1.1	1.4	0.8	3.2	4.2	2.4
noxious substances (X40-X49) Other and unspecified nontransport accidents and their sequelae	4.2	6.0	2.3	6.5	10.3	3.3
(W20-W31,W35-W64,W75-W99, X10-X39,X50-X59,Y86)	6.8	9.1	4.9	8.6	12.5	5.7
Intentional self-harm (suicide) (X60-X84,Y87.0) Intentional self-harm (suicide) by discharge	12.1	20.3	4.7	5.9	10.8	1.7
of firearms (X72-X74)	7.0	12.9	1.8	3.4	6.9	0.6
(X60-X71,X75-X84,Y87.0)	5.1	7.4	2.9	2.5	4.0	1.1
Assault (homicide) (X85-Y09,Y87.1)	2.9	3.9	2.0	21.4	36.4	7.8
firearms (X93-X95)	1.5	2.2	0.9	15.3	27.8	3.7
and unspecified means and their sequelae (X85-X92,X96-Y09,Y87.1)	1.4	1.7	1.1	6.1	8.6	4.1
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Table 16. Age-adjusted death rates for 113 selected causes by Hispanic origin, race for non-Hispanic population, and sex: United States, 1999 - Con.

Course of death (Daned on the Tooks	Tenth Both	All origins ¹			Hispanic		Non-Hispanic ²			
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
Legal intervention (Y35,Y89.0)	0.2	0.3	*	0.2	0.4	*	0.1	0.3	*	
(Y10-Y34,Y87.2,Y89.9)	1.4	2.0	0.9	0.8	1.3	0.3	1.5	2.1	0.9	
Discharge of firearms, undetermined intent (Y22-Y24)	0.1	0.2	0.0	0.1	0.2	*	0.1	0.2	0.0	
(Y10-Y21,Y25-Y34,Y87.2,Y89.9)	1.3	1.8	0.9	0.7	1.1	0.3	1.4	1.8	0.9	
Operations of war and their sequelae (Y36, Y89.1) Complications of medical and surgical care	0.0	0.0	*	*	*	*	0.0	0.0	*	
(Y40-Y84,Y88)	1.0	1.2	1.0	0.5	0.6	0.4	1.1	1.2	1.0	

Occurs of death (Decedor the Touth	Non	-Hispanic W	/hite	Non	-Hispanic B	ack
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Both sexes	Male	Female	Both sexes	Male	Female
Legal intervention (Y35,Y89.0)	0.1	0.2	*	0.4	0.7	*
(Y10-Y34,Y87.2,Y89.9)	1.4	1.9	0.9	2.1	3.5	1.0
(Y22-Y24)	0.1	0.2	0.0	0.2	0.3	*
(Y10-Y21,Y25-Y34,Y87.2,Y89.9) Operations of war and their sequelae	1.3	1.7	0.9	1.9	3.1	0.9
(Y36,Y89.1)	0.0	*	*	*	*	*
(Y40-Y84,Y88)	1.0	1.1	0.9	1.8	2.0	1.7

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States--California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

^{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 All origins includes origin not stated; specified origins exclude origin not stated.
2 Includes races other than white and black.

Table 17. Number of deaths from injury by firearms by age, race, and sex: United States, 1999

International Classification of Diseases, 1992), race, and sex	All ages	Under 1 year	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years
njury by firearms (W32-W34, X72-X74, X93-X95,											
Y22-Y24, Y35.0):											
All races ¹ , both sexes	28,874	8	65	80	336	2,896	3,899	3,248	2,727	2,812	2,422
		5	36	50		,	,		,		
Male	24,700				258	2,560	3,496	2,848	2,308	2,279	1,950
Female	4,174	3	29	30	78	336	403	400	419	533	472
White, both sexes	21,143	4	32	41	248	1,617	2,053	1,874	1,839	2,120	1,944
Male	17,942	4	18	24	191	1,418	1,806	1,615	1,530	1,704	1,566
Female	3,201	-	14	17	57	199	247	259	309	416	378
Black, both sexes	7,017	2	27	32	74	1,177	1,734	1,264	803	617	430
Male	6,184	1	13	23	56	1,052	1,595	1,144	710	514	348
Female	833	1	14	9	18	125	139	120	93	103	82
Accidental discharge of firearms (W32-W34):											
All races ¹ , both sexes	824	_	12	19	57	126	125	76	67	67	69
Male	707	_	7	13	47	115	114	62	60	56	56
	117		5	6	10	11	11	14	7	11	13
Female	649	-	5	9	48	88	86	62	53	56	60
White, both sexes		-									
Male	554	-	3	4	42	80	78	49	47	46	48
Female	95	-	2	5	6	8	8	13	6	10	12
Black, both sexes	156	-	7	9	8	36	31	12	11	9	9
Male	135	-	4	8	4	33	28	12	10	8	8
Female	21	-	3	1	4	3	3	-	1	1	1
ntentional self-harm (suicide) by discharge of firearms											
(X72-X74):											
All races 1, both sexes	16,599			_	103	975	1,340	1,292	1,329	1,617	1,480
Male	14,479			_	80	867	1,216	1,137	1,133	1,349	1,237
Female	2,120				23	108	1,210	155	1,133	268	243
	,										
White, both sexes	15,135			-	94	817	1,082	1,081	1,172	1,452	1,381
Male	13,167			-	72	724	983	945	993	1,200	1,149
Female	1,968			-	22	93	99	136	179	252	232
Black, both sexes	1,125			-	5	120	207	156	116	125	74
Male	1,018			-	4	109	189	144	106	113	66
Female	107			-	1	11	18	12	10	12	8
Assault (homicide) by discharge of firearms (X93-X95):											
All races ¹ , both sexes	10,828	8	50	61	163	1,708	2,330	1,795	1,253	1,054	814
Male	8,944	5	26	37	118	1,498	2,071	1,568	1,041	807	607
Female	1,884	3	24	24	45	210	259	227	212	247	207
	,										
White, both sexes	4,918	4	26	32	95	662	822	675	562	555	456
Male	3,820	4	14	20	66	567	688	568	440	408	328
Female	1,098	-	12	12	29	95	134	107	122	147	128
Black, both sexes	5,577	2	18	23	59	991	1,459	1,068	656	468	336
Male	4,883	1	7	15	46	883	1,344	961	576	378	265
Female	694	1	11	8	13	108	115	107	80	90	71
Discharge of firearms, undetermined intent (Y22-Y24):											
All races ¹ . both sexes	324	_	3	_	12	68	59	32	19	28	29
Male	277	_	3	_	12	61	50	28	16	24	21
		-	3	-	12	7	9	20 1	3	24 1	ا ک 8
Female	47	-		-	-	40	-	4	_	-	
White, both sexes	247	-	1	-	11	42	43	22	14	25	25
Male	212	-	1	-	11	39	37	19	12	21	20
Female	35	-	-	-	-	3	6	3	2	4	5
Black, both sexes	66	-	2	-	1	20	15	10	4	3	3
Male	56	-	2	-	1	17	12	9	3	3	1
Female	10	-	-	-	-	3	3	1	1	-	2
Legal intervention involving firearm discharge (Y35.0):											
All races ¹ , both sexes	299	-	-	-	1	19	45	53	59	46	30
Male	293	-	-	-	1	19	45	53	58	43	29
Female	6	_	_	_	_	-	-	-	1	3	1
White, both sexes	194	_	_	_	_	8	20	34	38	32	22
		-	_	-	_	8	20	34		29	2
	189	-	-	-	-		20	34	38		
Male	_										
Female	5	-	-	-	-	-		-	-	3	1
	5 93 92	-	-	-	1	10 10	22 22	18 18	16 15	3 12 12	8

Table 17. Number of deaths from injury by firearms by age, race, and sex: United States, 1999

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992), race, and sex	45-49 years	50-54 years	55-59 years	60-64 years	65-69 years	70-74 years	75-79 years	80-84 years	85 years and over	
Injury by firearms (W32-W34, X72-X74, X93-X95, Y22-Y24, Y35.0):										
All races ¹ , both sexes	2,096	1,626	1,299	1,007	955	1,079	1,029	709	561	20
Male	1,722	1,335	1,080	871	833	953	928	652	517	19
Female	374	291	219	136	122	126	101	57	44	1
White, both sexes	1,742	1,430	1,166	902	888	1,019	980	682	547	15
Male	1,431	1,185	959	781	778	899	886	628	505	14
Female	311	245	207	121	110	120	94	54	42	1
Black, both sexes	312	153	111	85	58	51	47	21	14	5
Male	259	123	102	73	49	46	41	18	12	5
Female	53	30	9	12	9	5	6	3	2	-
Accidental discharge of firearms (W32-W34):										
All races ¹ , both sexes	51	41	25	23	15	18	15	8	10	_
Male	46	32	22	19	13	18	13	7	7	_
Female	5	9	3	4	2	-	2	1	3	_
White, both sexes	45	36	21	20	13	17	13	7	10	_
Male	41	27	19	18	11	17	11	6	7	_
Female	41	9	2	2	2	- 17	2	1	3	-
Black, both sexes	6	5	4	3	2	1	2	1	-	-
Male	5	5	3	1	2	1	2	1	_	_
Female	1	-	1	2	-	-	-	-	-	-
Intentional self-harm (suicide) by discharge of firearms										
(X72-X74): All races ¹ , both sexes	1 460	1 015	1 050	802	827	964	946	660	524	_
	1,462	1,215	1,058							5
Male	1,221	1,030	882	712	742	873	875	624	496	5
Female	241	185	176	90	85	91	71	36	28	_
White, both sexes	1,360	1,154	998	756	785	929	917	640	512	5
Male	1,139	974	827	672	707	838	849	605	485	5
Female	221	180	171	84	78	91	68	35	27	-
Black, both sexes	77	43	46	36	36	29	28	15		-
Male Female	64 13	40 3	42 4	32 4	30 6	29	25 3	14 1	11	-
i enale	10	3	4	-	0	_	3	'	'	_
Assault (homicide) by discharge of firearms (X93-X95):	554	0.40	000	107	100	04	0.1	0.4	00	45
All races 1, both sexes	551	342	206	167	102	91	61	34	23	15
Male	426	250	167	127	68	56	34	14	10	14
Female	125	92	39	40	34	35	27	20	13	1
White, both sexes	313	213	139	113	79	69	43	29	21	10
Male	230	162	106	80	50	40	20	11	9	9
Female	83	51	33	33	29	29	23	18	12	1
Black, both sexes	222	104	59	45	20	19	17	4	2	5
Male	183	77	55	39	17	14	14	2	1	5
Female	39	27	4	6	3	5	3	2	1	-
Discharge of firearms, undetermined intent (Y22-Y24):										
All races ¹ , both sexes	18	10	6	8	9	6	6	7	4	-
Male	15	6	5	6	8	6	5	7	4	_
Female	3	4	1	2	1	-	1			_
White, both sexes	13	10	5	7	9	4	6	6	4	
Male	10	6	4	5	8	4	5	6	4	_
Female	3	4	1	2	1	-	1	U	4	_
	4	4	1	2	ı	2	1	1	-	-
Black, both sexes	4	-	1	-	-	2	-	1	-	-
Male Female	4	-	-	-	-	_	-	-	-	-
i enale										
Legal intervention involving firearm discharge (Y35.0):		4.0		_	-					
All races ¹ , both sexes	14	18	4	7	2	-	1	-	-	-
Male	14	17	4	7	2	-	1	-	-	-
Female	-	1	-	-	-	-	-	-	-	-
White, both sexes	11	17	3	6	2	-	1	-	-	-
Male	11	16	3	6	2	-	1	-	-	-
Female	-	1	-	-	-	-	-	-	-	-
Black, both sexes	3	1	1	1	-	-	-	-	-	-
		1	1	1						
Male	3				-	-	-	-	-	-

⁻ Quantity zero.
... Category not applicable.
1 Includes races other than white and black.

Table 18. Death rates and age-adjusted death rates for injury by firearms, by age, race, and sex: United States, 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard. For a listing of injury by firearms, see Technical notes]

International Classification of Diseases, 1992), race, and sex	All ages ¹	Under 1 year ²	1-4 years	5-9 years	10-14 years	15-19 years	20-24 years	25-29 years	30-34 years	35-39 years	40-44 years
njury by firearms (W32-W34, X72-X74, X93-X95,											
Y22-Y24, Y35.0):											
All races ⁴ , both sexes	10.6	*	0.4	0.4	1.7	14.7	21.6	17.8	13.8	12.5	10.9
Male	18.5	*	0.5	0.5	2.6	25.2	38.1	31.5	23.6	20.3	17.7
Female	3.0	*	0.3	0.3	0.8	3.5	4.6	4.4	4.2	4.7	4.2
White, both sexes	9.4	*	0.4	0.3	1.6	10.3	14.3	12.9	11.5	11.5	10.5
Male	16.3	*	0.5	0.3	2.4	17.6	24.5	22.2	19.2	18.3	17.0
Female	2.8	*	*	U.3 *	0.8	2.6	3.5	3.6	3.9	4.5	4.1
		*		1.0							
Black, both sexes	20.1	*	1.2	1.0	2.4	38.7	64.3	48.4	30.0	21.3	15.6
Male Female	37.3 4.6	*	*	1.4	3.6	67.9 8.4	119.6 10.2	91.6 8.8	56.5 6.6	37.7 6.7	27.0 5.6
Accidental discharge of firearms (W32-W34):											
All races ⁴ , both sexes	0.3	*	*	*	0.3	0.6	0.7	0.4	0.3	0.3	0.3
Male	0.5	*	*	*	0.5	1.1	1.2	0.7	0.6	0.5	0.5
Female	0.1	*	*	*	*	*	*	*	*	*	1
White, both sexes	0.3	*	*	*	0.3	0.6	0.6	0.4	0.3	0.3	0.3
Male	0.5	*	*	*	0.5	1.0	1.1	0.7	0.6	0.5	0.5
Female	0.1	*	*	*	*	*	*	*	*	*	1
Black, both sexes	0.4	*	*	*	*	1.2	1.1	*	*	*	1
Male	0.8	*	*	*	*	2.1	2.1	*	*	*	1
Female	0.0	*	*	*	*	*	*	*	*	*	1
Intentional self-harm (suicide) by discharge of firearms											
(X72-X74):	6.1			*	0.5	4.0	7.4	7.1	6.7	7.0	
All races ⁴ , both sexes	6.1			*	0.5	4.9	7.4	7.1	6.7	7.2	6.6
Male	10.9				0.8	8.5	13.2	12.6	11.6	12.0	11.2
Female	1.5			_	0.2	1.1	1.4	1.7	2.0	2.4	2.2
White, both sexes	6.7			*	0.6	5.2	7.5	7.5	7.4	7.8	7.5
Male	11.9			*	0.9	9.0	13.3	13.0	12.4	12.9	12.4
Female	1.7			*	0.3	1.2	1.4	1.9	2.3	2.7	2.5
Black, both sexes	3.2			*	*	3.9	7.7	6.0	4.3	4.3	2.7
MaleFemale	6.1 0.6			*	*	7.0	14.2	11.5	8.4	8.3	5.1
	0.0										
Assault (homicide) by discharge of firearms (X93-X95):											
All races ⁴ , both sexes	4.0	*	0.3	0.3	0.8	8.6	12.9	9.9	6.4	4.7	3.7
Male	6.7	*	0.3	0.4	1.2	14.8	22.6	17.3	10.7	7.2	5.5
Female	1.4	*	0.3	0.2	0.5	2.2	2.9	2.5	2.1	2.2	1.8
White, both sexes	2.2	*	0.2	0.2	0.6	4.2	5.7	4.7	3.5	3.0	2.5
Male	3.5	*	*	0.2	0.8	7.0	9.3	7.8	5.5	4.4	3.6
Female	1.0	*	*	*	0.4	1.3	1.9	1.5	1.5	1.6	1.4
Black, both sexes	16.0	*	*	0.7	1.9	32.6	54.1	40.9	24.5	16.1	12.2
Male	29.5	*	*	*	2.9	57.0	100.8	76.9	45.8	27.7	20.6
Female	3.8	*	*	*	*	7.2	8.4	7.9	5.6	5.9	4.9
Discharge of firearms, undetermined intent (Y22-Y24):											
All races ⁴ , both sexes	0.1	*	*	*	*	0.3	0.3	0.2	*	0.1	0.1
Male	0.2	*	*	*	*	0.6	0.5	0.3	*	0.2	0.2
Female	0.0	*	*	*	*	*	*	*	*	*	3
White, both sexes	0.1	*	*	*	*	0.3	0.3	0.2	*	0.1	0.1
Male	0.2	*	*	*	*	0.5	0.5	*	*	0.2	0.2
Female	0.0	*	*	*	*	*	*	*	*	۷.۷	0.2
Black, both sexes	0.0	*	*	*	*	0.7	*	*	*	*	,
,		*			*	0.7	*	*	*	*	,
MaleFemale	0.3	*	*	*	*	*	*	*	*	*	,
Legal intervention involving firearm discharge (Y35.0):	0.1		+				0.0	0.0	0.0	0.0	0.4
All races ⁴ , both sexes	0.1			_			0.2	0.3	0.3	0.2	0.1
Male	0.2	*	*	*	*	*	0.5	0.6	0.6	0.4	0.3
Female	*	*	*	*	*	*	*	*	*	*	1
White, both sexes	0.1	*	*	*	*	*	0.1	0.2	0.2	0.2	0.1
Male	0.2	*	*	*	*	*	0.3	0.5	0.5	0.3	0.2
Female	*	*	*	*	*	*	*	*	*	*	
Black, both sexes	0.3	*	*	*	*	*	0.8	*	*	*	
Male	0.6	*	*	*	*	*	1.6	*	*	*	

Table 18. Death rates and age-adjusted death rates for injury by firearms, by age, race, and sex: United States, 1999 - Con.

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard. For a listing of injury by firearms, see Technical notes]

Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992), race, and sex	45-49 years	50-54 years	55-59 years	60-64 years	65-69 years	70-74 years	75-79 years	80-84 years	85 years and over	Age- adjusted rate ³
'										
njury by firearms (W32-W34, X72-X74, X93-X95,										
Y22-Y24, Y35.0): All races ⁴ , both sexes	10.0	0.0	10.1	0.6	10.1	10.0	140	117	10.4	10.6
	10.8	9.9	10.1	9.6		12.3	14.0	14.7	13.4	10.6
Male	18.1	16.7	17.5	17.5	19.2	24.7	30.4	35.9	41.7	18.8
Female	3.8	3.4	3.3	2.5	2.4	2.6	2.4	1.9	1.5	3.0
White, both sexes	10.7	10.2	10.5	10.0	10.8	13.1	14.9	15.6	14.5	9.3
Male	17.8	17.2	17.8	18.0	20.5	26.1	32.1	38.0	45.3	16.5
Female	3.8	3.4	3.6	2.6	2.5	2.8	2.5	2.0	1.6	2.8
Black, both sexes	13.9	9.1	8.6	8.1	6.2	6.9	8.4	6.3	*	18.8
Male	25.2	16.2	18.1	16.2	12.2	15.0	18.8	*	*	34.8
Female	4.4	3.2	*	*	*	*	*	*	*	4.4
Accidental discharge of firearms (W32-W34):										
All races ⁴ , both sexes	0.3	0.2	0.2	0.2	*	*	*	*	*	0.3
Male	0.5	0.2	0.2	۷.۷	*	*	*	*	*	0.5
	0.5	V.4 *	V.4 *	*	*	*	*	*	*	
Female	0.0	0.0	0.0		*	*	*	*	*	0.1
White, both sexes	0.3	0.3	0.2	0.2						0.3
Male	0.5	0.4	*	*		*	*	*	*	0.5
Female	*	*	*	*	*	*	*	*	*	0.1
Black, both sexes	*	*	*	*	*	*	*	*	*	0.4
Male	*	*	*		*	*	*	*		0.8
Female	*	*	*	*	*	*	*	*	*	0.1
ntentional self-harm (suicide) by discharge of firearms										
(X72-X74):										
All races ⁴ , both sexes	7.6	7.4	8.2	7.6	8.8	11.0	12.9	13.7	12.6	6.1
Male	12.9	12.9	14.3	14.3	17.1	22.6	28.6	34.4	40.0	11.4
Female	2.4	2.2	2.6	1.6	1.7	1.9	1.7	1.2	1.0	1.5
White, both sexes	8.4	8.2	9.0	8.3	9.6	12.0	13.9	14.6	13.6	6.6
Male	14.2	14.1	15.4	15.5	18.6	24.3	30.8	36.6	43.5	12.2
Female	2.7	2.5	3.0	1.8	1.8	2.1	1.8	1.3	1.0	1.7
Black, both sexes	3.4	2.5	3.6	3.4	3.8	3.9	5.0	*	*	3.3
Male	6.2	5.3	7.4	7.1	7.5	9.4	11.5	*	*	6.6
Female	*	*	*	*	*	*	*	*	*	0.6
Accoult (hamisida) by disabayes of five symp (VO2 VOE)										
Assault (homicide) by discharge of firearms (X93-X95):	0.0	0.4	4.0	4.0		4.0	0.0	0.7	0.0	4.0
All races ⁴ , both sexes	2.8	2.1	1.6	1.6	1.1	1.0	0.8	0.7	0.6	4.0
Male	4.5	3.1	2.7	2.6	1.6	1.5	1.1		*	6.5
Female	1.3	1.1	0.6	0.7	0.7	0.7	0.6	0.7		1.4
White, both sexes	1.9	1.5	1.3	1.2	1.0	0.9	0.7	0.7	0.6	2.2
Male	2.9	2.3	2.0	1.8	1.3	1.2	0.7	*	*	3.4
Female	1.0	0.7	0.6	0.7	0.7	0.7	0.6	*	*	1.0
Black, both sexes	9.9	6.2	4.6	4.3	2.1	*	*	*	*	14.7
Male	17.8	10.2	9.7	8.7	*	*	*	*	*	26.6
Female	3.2	2.9	*	*	*	*	*	*	*	3.6
Discharge of firearms, undetermined intent (Y22-Y24):										
All races ⁴ , both sexes	*	*	*	*	*	*	*	*	*	0.1
Male	*	*	*	*	*	*	*	*	*	0.1
Female	*	*	*	*	*	*	*	*	*	0.0
	*	*	*	*	*	*	*	*	*	
White, both sexes	*	*	*	*	*	*	*	*	*	0.1
Male					Ĵ					0.2
Female										0.0
Black, both sexes	*	*	*	*	*	*	*	*	*	0.2
Male	*	*	*	*	*	*	*	*	*	0.3
Female	*	*	*	*	*	*	*	*	*	*
egal intervention involving firearm discharge (Y35.0):										
All races ⁴ , both sexes	*	*	*	*	*	*	*	*	*	0.1
Male	*	*	*	*	*	*	*	*	*	0.2
Female	*	*	*	*	*	*	*	*	*	*
White, both sexes	*	*	*	*	*	*	*	*	*	0.1
Male	*	*	*	*	*	*	*	*	*	0.1
	*	*	*	*	*	*	*	*	*	۷.۷
Female	*	*	*	*	*	*	*	*	*	0.0
Black, both sexes							_			0.3
Male	*	*	*	*	*	*	*	*	*	0.5
Female	*	*	*	*	*	*	*	*	*	,

^{*} Figure does not meet standards of reliability or precision; see Technical notes. . . . Category not applicable.

0.0 Quantity more than zero but less than 0.05.

1. Figures for any not stated included in "All args," but not distributed among any

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

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

For method of computation, see Technical notes.

⁴ Includes races other than white and black.

Table 19. Number of deaths, death rates, and age-adjusted death rates for injury by firearms, by race and sex: United States, 1998, modified 1998, and 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes. For listing of injury by firearms, see Technical notes]

									All o	other			
	All races			White			Total			Black			
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
						Nur	mber						
1999 1998 (modified) ¹ 1998 ²	28,874 30,625 30,708	24,700 26,118 26,189	4,174 4,507 4,519	21,143 22,419 22,480	17,942 18,968 19,019	3,201 3,452 3,461	7,731 8,206 8,228	6,758 7,151 7,170	973 1,055 1,058	7,017 7,483 7,503	6,184 6,574 6,592	833 909 911	
						R	ate						
1999 1998 (modified) ¹ 1998 ²	10.6 11.4 11.4	18.5 19.7 19.8	3.0 3.3 3.3	9.4 10.1 10.1	16.3 17.4 17.4	2.8 3.0 3.0	16.1 17.4 17.4	29.5 31.7 31.8	3.9 4.3 4.3	20.1 21.7 21.8	37.3 40.2 40.3	4.6 5.0 5.0	
						Age-adju	ısted rate 3						
1999 1998 (modified) ¹ 1998 ²	10.6 11.3 11.3	18.8 20.0 20.1	3.0 3.3 3.3	9.3 10.0 10.0	16.5 17.6 17.6	2.8 3.0 3.0	15.1 16.2 16.2	27.5 29.5 29.6	3.7 4.1 4.1	18.8 20.2 20.3	34.8 37.2 37.3	4.4 4.8 4.8	

Numbers, rates, and age-adjusted rates were modified with the comparability ratios shown in table III of the Technical notes

Table 20. Number of deaths, death rates, and age-adjusted death rates for drug-induced causes, by race and sex: United States, 1998, modified 1998, and 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes. For listing of drug-induced causes, see Technical notes]

									All c	other			
	All races			White			Total			Black			
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
						Nur	nber						
1999 1998 (modified) ¹ 1998 ²	19,102 20,227 16,926	12,873 13,697 11,462	6,229 6,529 5,464	15,694 16,504 13,811	10,497 11,081 9,273	5,197 5,423 4,538	3,408 3,722 3,115	2,376 2,616 2,189	1,032 1,107 926	3,094 3,383 2,831	2,188 2,388 1,998	906 995 833	
						R	ate						
1999 1998 (modified) ¹ 1998 ²	7.0 7.5 6.3	9.7 10.4 8.7	4.5 4.8 4.0	7.0 7.4 6.2	9.5 10.2 8.5	4.5 4.8 4.0	7.1 7.9 6.6	10.4 11.6 9.7	4.1 4.4 3.7	8.9 9.8 8.2	13.2 14.6 12.2	4.9 5.5 4.6	
						Age-adju	sted rate 3						
1999 1998 (modified) ¹ 1998 ²	7.0 7.5 6.3	9.6 10.3 8.6	4.4 4.7 3.9	6.9 7.3 6.1	9.4 9.9 8.3	4.5 4.7 3.9	7.5 8.2 6.9	11.3 12.5 10.5	4.2 4.5 3.8	9.5 10.5 8.8	14.7 16.3 13.6	5.1 5.7 4.8	

Numbers, rates, and age-adjusted rates were modified with the comparability ratios shown in table III of the Technical notes

¹ Numbers, rates, and age-adjusted rates were miduled with the comparability ratios shown in table in or the redinition rates.

2 The 1998 cause-of-death data are tabulated using ICD-9 codes that approximate ICD-10 categories as shown in table III of the Technical notes.

3 For method of computation, see Technical notes.

Numbers, rates, and age-adjusted rates were modified with the comparability ratios shown in table in or the reclamations.

The 1998 cause-of-death data are tabulated using ICD-9 codes that approximate ICD-10 categories as shown in table III of the Technical notes.

For method of computation, see Technical notes.

Table 21. Number of deaths, death rates, and age-adjusted death rates for alcohol-induced causes, by race and sex: United States, 1998, modified 1998, and 1999

[Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes. For listing of drug-induced causes, see Technical notes]

							All other					
		All races			White		Total				Black	
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
						Nur	nber					
1999 1998 (modified) ¹ 1998 ²	19,171 18,894 19,515	14,665 14,289 14,758	4,506 4,606 4,757	15,686 15,454 15,962	12,110 11,764 12,150	3,576 3,691 3,812	3,485 3,440 3,553	2,555 2,525 2,608	930 915 945	2,757 2,742 2,832	2,042 2,046 2,113	715 696 719
						R	ate					
1999 1998 (modified) ¹ 1998 ²	7.0 7.0 7.2	11.0 10.8 11.2	3.2 3.3 3.4	7.0 7.0 7.2	11.0 10.7 11.1	3.1 3.3 3.4	7.2 7.3 7.5	11.1 11.2 11.6	3.7 3.7 3.8	7.9 7.9 8.2	12.3 12.5 12.9	3.9 3.9 4.0
		Age-adjusted rate ³										
1999 1998 (modified) ¹ 1998 ²	7.1 7.1 7.3	11.5 11.4 11.8	3.2 3.3 3.4	6.8 6.8 7.0	11.0 10.8 11.2	3.0 3.1 3.2	8.8 8.9 9.2	14.6 14.8 15.3	4.2 4.2 4.3	9.7 9.9 10.2	16.5 16.9 17.5	4.5 4.5 4.6

Numbers, rates, and age-adjusted rates were modified with the comparability ratios shown in table III of the Technical notes.
 The 1998 cause-of-death data are tabulated using ICD-9 codes that approximate ICD-10 categories as shown in table III of the Technical notes.
 For method of computation, see Technical notes.

Table 22. Number of deaths, death rates, and age-adjusted death rates for ages 15 years and over, by race, sex, and marital status: United States, 1999

[Rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard, see Technical notes]

	,	•	•		• •			*	-
Race, sex, and marital status	15 years and over ¹	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75 years and over	Age-adjusted rate ²
					Numbe	er			
All races ³ , both sexes	2,350,262	30,656	41,066	89,256	152,974	238,979	452,600	1,344,731	
Never married	234 167	27,828	22,391	30.060	26,996	22,359	29,397	75,136	
Ever married		2,755	18,387	58,304	124,546	214,924	421,230	1,266,486	
Married		2,340	13,502	37,224	78,465	138,378	251,032	427,040	
Widowed		70	322	1,661	6,339	25,720	111,687	768,113	
Divorced	244,739	345	4,563	19,419	39,742	50,826	58,511	71,333	
Not stated	9,463	73	288	892	1,432	1,696	1,973	3,109	
All races ³ , male	1,152,070	22,414	28,276	57,118	95,659	142,724	254,920	550,959	
Never married	139.330	20,694	16,591	21,589	18,740	14,690	18,649	28,377	
Ever married		1,658	11,455	34,806	75.723	126,649	234,779	520,836	
Married		1,431	8,445	21,928	48,137	88,588	169,815	311,998	
Widowed	222,545	36	149	583	2,021	7,324	32,373	180,059	
Divorced		191	2,861	12,295	25,565	30,737	32,591	28,779	
Not stated	6,834	62	230	723	1,196	1,385	1,492	1,746	
All races ³ , female	1,198,192	8,242	12,790	32,138	57,315	96,255	197,680	793,772	
Never married	94.837	7,134	5,800	8,471	8,256	7,669	10,748	46,759	
Ever married		1,097	6,932	23,498	48,823	88,275	186,451	745,650	
Married		909	5,057	15,296	30,328	49,790	81,217	115,042	
Widowed		34	173	1,078	4,318	18,396	79,314	588,054	
Divorced	111,720	154	1,702	7,124	14,177	20,089	25,920	42,554	
Not stated	2,629	11	58	169	236	311	481	1,363	
White, both sexes	2,033,827	22,352	29,400	65,607	117,011	193,582	387,437	1,218,438	
Never married	176 843	20,004	14,518	18,703	17,482	15,668	23,129	67.339	
Ever married		2,300	14,691	46,301	98,572	176,737	362,924	1,148,855	
Married		1,936	10,586	29,302	63,061	116,516	222,759	393,946	
Widowed		59	232	1,093	4,108	18,920	91,250	692,257	
Divorced	204,355	305	3,873	15,906	31,403	41,301	48,915	62,652	
Not stated	6,604	48	191	603	957	1,177	1,384	2,244	
White, male	989,613	16,203	20,549	42,914	73,908	116,537	220,442	499,060	
Navana ara anda d	100.004	44.705	11 000	1 1 0 10	10.500	10.500	44747	04.040	
Never married		14,785	11,200	14,249	12,569	10,526	14,747	24,848	
Ever married		1,377	9,184	28,160	60,521	105,042	204,641	472,971	
Married		1,178	6,628	17,379	38,576	74,370	150,703	287,059 161,239	
Widowed Divorced		29 170	106 2,450	393 10,388	1,297 20,648	5,403 25,269	26,687 27,251	24,673	
Not stated		41	165	505	818	969	1,054	1,241	
White, female	1,044,214	6,149	8,851	22,693	43,103	77,045	166,995	719,378	
		F 010	0.010	4.454	4.010	F 140	0.000	40.404	
Never married Ever married		5,219 923	3,318 5,507	4,454 18,141	4,913 38,051	5,142 71,695	8,382 158,283	42,491 675,884	
Married		758	3,958	11,923	24,485	42,146	72,056	106,887	
Widowed		30	126	700	2,811	13,517	64,563	531,018	
Divorced		135	1,423	5,518	10,755	16,032	21,664	37,979	
Not stated		7	26	98	139	208	330	1,003	
Black, both sexes	273,065	7,066	10,115	21,041	31,759	39,476	56,122	107,486	
,	,								• • •
Never married		6,710	7,055	10,601	8,957	6,222	5,771	7,069	
Ever married		334	2,970	10,177	22,353	32,763	49,807	99,619	
Married		299	2,338	6,547	12,744	17,939	22,882	25,580	
Widowed		7 28	70 562	516 2 114	2,034 7,575	6,122 8,702	18,178 8,747	66,087 7,952	
Not stated		20	90	3,114 263	449	491	544	7,952	
Black, male		5,348	6,723	12,567	19,298	22,769	29,594	42,607	
	,							,	
Never married		5,112	4,792	6,791 5,580	5,809	3,862	3,571	3,086	
Ever married Married		218 199	1,870	5,580 3,726	13,131	18,511 11,749	25,619 15,563	39,056 19,029	
Widowed		199	1,493 32	3,726 172	7,988 672	1,749	5,162	16,304	
Divorced		14	345	1,682	4,471	5,002	4,894	3,723	
Not stated		18	61	196	358	396	404	465	
Black, female	134,159	1,718	3,392	8,474	12,461	16,707	26,528	64,879	
	19,362	1,598	2,263	3,810	3,148	2,360	2,200	3,983	
				4 507	0.000	14,252	24,188	60,563	
Ever married	114,038	116	1,100	4,597	9,222				
Ever married Married	114,038 28,582	100	845	2,821	4,756	6,190	7,319	6,551	
Widowed	114,038 28,582 68,907	100 2	845 38	2,821 344	4,756 1,362	6,190 4,362	7,319 13,016	6,551 49,783	
Ever married Married	114,038 28,582 68,907 16,549	100	845	2,821	4,756	6,190	7,319	6,551	

Table 22. Number of deaths, death rates, and age-adjusted death rates for ages 15 years and over, by race, sex, and marital status: United States, 1999 - Con.

[Rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard, see Technical notes]

New married	Race, sex, and marital status	15 years and over ¹	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75 years and over	Age-adjusted rate ²
Never married						Rate				
Ever married	All races ³ , both sexes	1,097.0	81.2	108.3	199.2	427.3	1,021.8	2,484.3	8,238.9	1,322.4
Married 787.9 56.1 61.9 118.6 297.8 806.7 2,070.9 5,885.3 960.8										
Widowed										
Divorced 1,229.5 111.8 177.0 324.0 715.2 1,587.5 3,765.9 10,006.3 1,800.3			56.1							
Never married			111.8							
Ever married 1,412.5 99.3 103.0 191.6 474.9 1,201.7 2,975.4 8,863.0 1,461.9 Married 1,085.9 91.8 84.3 143.5 360.1 997.4 2,601.5 7,302.0 1,212.6 Widowed 5,248.9 1.8 84.3 143.5 360.1 997.4 2,601.5 7,302.0 1,212.6 Widowed 5,248.9 1.8 84.3 143.5 360.1 997.4 2,601.5 7,302.0 1,212.6 Widowed 5,248.9 1.8 84.3 143.5 360.1 997.4 2,601.5 7,302.0 1,212.6 Widowed 5,548.9 1.9 14.2 1,202.0 1,202.6 1,302.0 1,302.6 1,302.0 1,30	All races ³ , male	1,114.5	115.9	150.2	256.7	546.7	1,280.0	3,109.3	9,015.3	1,541.6
Married								-,		
Wickwed 8,248.9										
Divorced			91.8	84.3						
Never married		-,	172.1	261.6		,		,		
Ever married	All races ³ , female	1,080.6	44.7	66.9	142.5	313.1	786.5	1,972.9	7,774.1	1,148.3
Married	Never married	349.1	45.7	101.0	287.7	562.3	1,268.4	2,779.0	11,569.8	1,745.5
Wickeyed 5.758.6 * 232.6 3592 616.6 1,227.7 2,527.9 9,360.7 1,565.1										
Divorced 990.9 78.0 114.6 221.8 449.6 1,077.6 2,900.6 9,091.2 1,463.6 White, both sexes 1,139.6 74.5 96.6 177.6 386.8 961.5 2,427.8 8,266.8 1,294.7			34.8							
Never married			78.0							
Ever married 1,384.8 58.0 70.8 144.6 251.3 919.6 2,353.3 8,104.1 1,245.2 Married 800.8 52.4 57.1 109.4 276.7 768.7 768.7 2,041.7 5,810.1 951.6 Widowed 6,494.7 * * 346.1 620.5 1,337.8 2,860.3 10,206.3 1,715.1 100 torced 1,236.5 115.1 180.1 323.2 681.1 1,560.9 3,702.6 10,218.4 1,803.4 White, male 1,141.5 104.9 134.5 231.5 494.2 1,200.2 3,043.2 9,027.8 1,504.7 Never married 412.7 105.8 193.5 464.2 1,055.3 2,184.9 6,231.3 12,391.8 2,465.0 Ever married 1,428.2 93.9 96.8 182.0 439.7 1,138.3 2,90.5 8,877.9 1,438.1 Married 1,102.5 86.2 77.4 133.0 3331. 946.7 2,565.8 7,309.0 1,191.0 Widowed 8,682.3 * * 491.1 979.3 2,211.4 4,624.8 13,485.9 2,444.6 White, female 1,137.7 42.2 58.4 123.3 281.8 739.1 1,916.2 7,810.1 1,126.3 Never married 3,71.2 43.2 85.3 239.9 492.5 1,186.1 2,793.7 11,731.4 1,721.1 Ever married 5,003.3 32.6 33.7 84.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 1,489.5 12,000.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 1,489.5 12,000.7 1,000.1 1,	White, both sexes	1,139.6	74.5	96.6	177.6	386.8				
Ever married 1,384.8 58.0 70.8 144.6 251.3 919.6 2,353.3 8,104.1 1,245.2 Married 800.8 52.4 57.1 109.4 276.7 768.7 768.7 2,041.7 5,810.1 951.6 Widowed 6,494.7 * * 346.1 620.5 1,337.8 2,860.3 10,206.3 1,715.1 100 torced 1,236.5 115.1 180.1 323.2 681.1 1,560.9 3,702.6 10,218.4 1,803.4 White, male 1,141.5 104.9 134.5 231.5 494.2 1,200.2 3,043.2 9,027.8 1,504.7 Never married 412.7 105.8 193.5 464.2 1,055.3 2,184.9 6,231.3 12,391.8 2,465.0 Ever married 1,428.2 93.9 96.8 182.0 439.7 1,138.3 2,90.5 8,877.9 1,438.1 Married 1,102.5 86.2 77.4 133.0 3331. 946.7 2,565.8 7,309.0 1,191.0 Widowed 8,682.3 * * 491.1 979.3 2,211.4 4,624.8 13,485.9 2,444.6 White, female 1,137.7 42.2 58.4 123.3 281.8 739.1 1,916.2 7,810.1 1,126.3 Never married 3,71.2 43.2 85.3 239.9 492.5 1,186.1 2,793.7 11,731.4 1,721.1 Ever married 5,003.3 32.6 33.7 84.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 1,489.5 12,000.7 1,155.4 2,470.7 9,504.5 1,554.8 Widowed 1,489.5 12,000.7 1,000.1 1,	Never married	394 3	76.8	150.0	379.7	798.8	1 711 8	4 309 5	11 966 7	2 081 4
Married										
Widowed 6,494.7 bivoreed * 346.1 bivoreed 1,337.8 bivoreed 16,006.3 bivoreed 1,715.1 bivoreed Divoreed 1,236.5 bits 115.1 bits 180.1 323.2 bits 1,150.9 3,702.6 bits 10,218.4 bits 1,803.4 bits White, male 1,141.5 bits 104.9 bits 231.5 bits 494.2 bits 1,200.2 bits 3,043.2 bits 9,027.8 bits 1,504.7 bits Never married 412.7 bits 105.8 bits 193.5 bits 464.2 bits 1,055.3 bits 2,184.9 bits 6,231.3 bits 2,391.8 bits 2,465.0 bits Warried 1,428.2 bits 39.9 bits 182.0 bits 439.7 bits 1,383.3 bits 2,902.5 bits 8,779.9 bits 1,488.1 bits Widowed 8,682.3 bits * bits 491.1 bits 979.3 bits 2,211.4 bits 462.8 bits 13,485.9 bits 2,484.6 bits 1,486.9 bits 2,486.5 bits 2,307.8 bits 2,907.8 bits 1,916.2 bits 2,781.0 bits 1,126.3 bits 1,916.2 bits 2,781.0 bits 1,126.3 bits 1,916.2 bits 2,781.0 bits 1,126.3 bits 1,221.1 bits 2,793.7 bits <										
White, male 1,141.5 104.9 134.5 231.5 494.2 1,200.2 3,043.2 9,027.8 1,504.7 Never married 412.7 105.8 193.5 464.2 1,055.3 2,184.9 6,231.3 12,391.8 2,465.0 Ever married 1,428.2 39.9 96.8 182.0 439.7 1,138.3 2,920.5 8,877.9 1,438.1 Married 1,102.5 86.2 77.4 133.0 333.1 946.7 2,556.8 7,309.0 1,191.0 Widowed 8,682.3 * * 491.1 979.3 2,211.4 4,624.8 13,3485.9 2,484.6 Divorced 1,525.9 172.2 270.6 447.4 1,007.4 2,240.1 4,897.2 12,066.7 2,307.8 White, female 1,137.7 42.2 85.4 123.3 281.8 739.1 1,916.2 7,810.1 1,126.3 Never married 371.2 43.2 85.3 239.9 492.5 1,186.1 2,793.7			*	*						
Never married	Divorced	1,236.5	115.1	180.1	323.2	681.1	1,560.9	3,702.6	10,218.4	1,803.4
Ever married 1,428.2 93.9 96.8 182.0 439.7 1,138.3 2,920.5 8,877.9 1,438.1 Married 1,102.5 86.2 77.4 133.0 333.1 946.7 2,565.8 7,309.0 1,191.0 Widowed 8,682.3 * * 491.1 979.3 2,211.4 4,624.8 13,485.9 2,484.6 Divorced 1,525.9 172.2 270.6 447.4 1,007.4 2,240.1 4,897.2 12,066.7 2,307.8 White, female 1,137.7 42.2 58.4 123.3 281.8 739.1 1,916.2 7,810.1 1,126.3 Never married 3,371.2 43.2 85.3 239.9 492.5 1,186.1 2,793.7 11,731.4 1,721.1 Ever married 5,347.5 36.9 48.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Married 5,003.3 32.6 39.7 86.9 218.5 577.2 1,430.5 3,746.5 649.3 Widowed 6,012.2 * 299.9 530.7 1,155.4 2,470.7 9,504.5 1,534.8 Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9,293.6 1,464.1 Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 4,681.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 4,488.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 884.5 97.3 111.7 224.6 569.7 1,410.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,993.0 Historied 1,204.1 166.3 166.4 350.2 941.4 1,834.5 4,307.6 * 1,993.0 Historied 1,204.1 162.5 153.1 266.6 707.6 1,782.8 3,243.9 9,764.8 1,893.0 Married 6,323.6 * * * * * * * * * * * * * * * * * * *	White, male	1,141.5	104.9	134.5	231.5	494.2	1,200.2	3,043.2	9,027.8	1,504.7
Married										
Widowed 8,682.3 * * 491.1 979.3 2,211.4 4,624.8 13,485.9 2,484.6 Divorced 1,525.9 172.2 270.6 447.4 1,007.4 2,240.1 4,897.2 12,066.7 2,307.8 White, female 1,137.7 42.2 58.4 123.3 281.8 739.1 1,916.2 7,810.1 1,126.3 Never married 371.2 43.2 85.3 239.9 492.5 1,186.1 2,793.7 11,721.1 Ever married 1,347.5 36.9 48.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Married 500.3 32.6 39.7 86.9 218.5 577.2 1,430.5 3,746.5 649.3 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,534.8 Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9293.6 1,464.1 </td <td></td>										
Divorced 1,525.9 172.2 270.6 447.4 1,007.4 2,240.1 4,897.2 12,066.7 2,307.8			86.2	//.4						
Never married 371.2 43.2 85.3 239.9 492.5 1,186.1 2,793.7 11,731.4 1,721.1 Ever married 1,347.5 36.9 48.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Married 500.3 32.6 39.7 86.9 218.5 577.2 1,430.5 3,746.5 649.3 Widowed 6,012.2 * * 26.9 550.7 1,554.2 2,470.7 9,504.5 1,534.8 Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9,293.6 1,464.1 Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * </td <td></td> <td></td> <td>172.2</td> <td>270.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			172.2	270.6						
Ever married 1,347.5 36.9 48.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Married 500.3 32.6 39.7 86.9 218.5 577.2 1,430.5 3,746.5 649.3 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,534.8 Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9,293.6 1,464.1 Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 4,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Midowed 5,068.7 * * * 1,175.6 1,859.1 3,262.3 3,443.9	White, female	1,137.7	42.2	58.4	123.3	281.8	739.1	1,916.2	7,810.1	1,126.3
Ever married 1,347.5 36.9 48.9 109.6 266.1 717.7 1,881.0 7,638.3 1,095.1 Married 500.3 32.6 39.7 86.9 218.5 577.2 1,430.5 3,746.5 649.3 Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,534.8 Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9,293.6 1,464.1 Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 4,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Midowed 5,068.7 * * * 1,175.6 1,859.1 3,262.3 3,443.9	Never married	371.2	43.2	85.3	239.9	492.5	1.186.1	2.793.7	11.731.4	1.721.1
Widowed 6,012.2 * * 296.9 530.7 1,155.4 2,470.7 9,504.5 1,534.8 Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9,293.6 1,464.1 Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 1,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Married 844.5 97.3 111.7 224.6 569.7 1,414.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6										
Divorced 1,009.5 81.2 114.3 212.3 420.0 1,056.1 2,833.2 9,293.6 1,464.1 Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 1,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Married 884.5 97.3 111.7 224.6 569.7 1,414.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * * 1,960.5 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0	Married	500.3	32.6	39.7	86.9	218.5	577.2	1,430.5	3,746.5	649.3
Black, both sexes 1,057.0 123.1 191.3 372.3 808.4 1,683.3 3,343.6 8,941.6 1,705.3 Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 1,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Married 884.5 97.3 111.7 224.6 569.7 1,414.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,913.8 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * <td></td> <td></td> <td>*</td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			*	*						
Never married 468.1 124.2 249.2 596.9 1,254.8 2,291.0 4,217.1 * 2,277.4 Ever married 1,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Married 884.5 97.3 111.7 224.6 569.7 1,414.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,913.8 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * * * 2,832.1 Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 <	Divorced	1,009.5	81.2	114.3	212.3	420.0	1,056.1	2,833.2	9,293.6	1,464.1
Ever married 1,489.0 98.5 120.9 262.5 695.3 1,580.1 3,230.8 8,733.6 1,594.5 Married 884.5 97.3 111.7 224.6 569.7 1,414.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,913.8 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * * * 2,832.1 Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 <	Black, both sexes	1,057.0	123.1	191.3	372.3	808.4	1,683.3	3,343.6	8,941.6	1,705.3
Married 884.5 97.3 111.7 224.6 569.7 1,414.0 2,822.3 7,208.0 1,350.4 Widowed 5,068.7 * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,913.8 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * * * 2,832.1 Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,668.0 Widowed 6,323.6 * * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1	Never married								*	
Widowed 5,068.7 * * * 1,175.6 1,852.2 3,443.9 9,388.1 1,960.5 Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,913.8 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * * * 2,832.1 Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,668.0 Widowed 6,323.6 * * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * * 2,388.6 Black, female 967.8 60.1 122.0 282.6 <td></td>										
Divorced 1,300.4 * 166.4 350.2 941.4 1,834.5 4,307.6 * 1,913.8 Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * * * 2,832.1 Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,680.0 Widowed 6,323.6 * * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * * 2,388.6 Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4			97.3	111.7	224.6					
Black, male 1,160.3 185.6 268.4 473.6 1,081.9 2,244.0 4,182.8 10,017.5 2,065.8 Never married 603.1 185.9 348.6 817.2 1,839.9 3,306.4 * * * 2,832.1 Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,668.0 Widowed 6,323.6 * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * * 2,388.6 Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * * 1,834.8 Ever married 1,400.0 55.7 83.0		- /	*	166.4	350.2				9,388.1	
Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,668.0 Widowed 6,323.6 * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * 2,388.6 Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * 1,834.8 Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7	Black, male	1,160.3	185.6						10,017.5	
Ever married 1,600.8 166.3 165.4 306.1 894.5 2,061.7 3,968.9 9,764.8 1,893.0 Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,668.0 Widowed 6,323.6 * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * 2,388.6 Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * 1,834.8 Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7	Never married	603 1	185.9	348 6	817 2	1.839 9	3.306 4	*	*	2.832 1
Married 1,204.1 162.5 153.1 262.6 707.6 1,782.8 3,524.3 8,806.1 1,668.0 Widowed 6,323.6 * * * * * * 4,619.1 10,933.0 2,452.2 Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * * * 2,388.6 Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * * 1,834.8 Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7 Widowed 4,739.6 * * * 1,022.4 1,615.1 3,128.3 8,972.8 1,784.3								3,968.9	9,764.8	
Divorced 1,746.6 * 222.0 438.1 1,493.8 2,803.9 * * 2,388.6 Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * * 1,834.8 Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7 Widowed 4,739.6 * * * 1,022.4 1,615.1 3,128.3 8,972.8 1,784.3										
Black, female 967.8 60.1 122.0 282.6 581.0 1,255.7 2,732.1 8,352.5 1,445.7 Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * * 1,834.8 Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7 Widowed 4,739.6 * * * 1,022.4 1,615.1 3,128.3 8,972.8 1,784.3			*	* 222 N	* 438 1	* 1 493 8	2 803 9	4,619.1	10,933.0	
Never married 338.7 60.3 155.4 403.2 790.7 1,524.8 * * 1,834.8 Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7 Widowed 4,739.6 * * * 1,022.4 1,615.1 3,128.3 8,972.8 1,784.3		,						2 732 1	8 353 5	
Ever married 1,400.0 55.7 83.0 223.8 528.0 1,212.2 2,699.1 8,176.7 1,386.1 Married 568.9 54.1 75.6 188.6 429.2 1,015.3 1,982.6 4,719.8 932.7 Widowed 4,739.6 * * * * 1,022.4 1,615.1 3,128.3 8,972.8 1,784.3								۷,1 ک۲. ۱	0,002.0	
Married								*	*	
Widowed										
			J⁴1. I *	/ 5.0	*					
	Divorced		*	119.0	283.4	614.2	1,250.2	3,474.0	0,072.0	1,586.5

^{*} Figure does not meet standards of reliability or precision, see Technical notes.
. . Category not applicable.
1 Excludes figures for age not stated.
2 Calculated based on ages 25 years and over. For method of computation, see Technical notes.
3 Includes races other than white and black.

Table 23. Number of deaths, death rates, and age-adjusted death rates for ages 25-64 years, by educational attainment and sex: Total of 46 reporting States and the District of Columbia, 1999

[Rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes. For rates, the definition of educational attainment differs for the numerator and denominator; see Technical notes]

Years of school completed and sex	25-64 years ¹	25-34 years	35-44 years	45-54 years	55-64 years	Age-adjusted rate ²
			N	umber		
Both sexes	492.988	38,698	84,304	144,462	225,524	
Under 12 years	111,037	9.028	18,047	27,219	56,743	
12 years	213,929	17,422	38,167	60,859	97,481	
13 years or more	149,346	10,922	24,911	50,896	62,617	
Not stated	18,676	1,326	3,179	5,488	8,683	
Male	305,636	26,685	53,998	90,325	134,628	
Under 12 years	71,037	6,522	12,174	17,668	34,673	
12 years	130,581	12,397	25,129	37,656	55,399	
13 years or more	91,359	6,826	14,547	31,147	38,839	
Not stated	12,659	940	2,148	3,854	5,717	
Female	187,352	12,013	30,306	54,137	90,896	
Under 12 years	40,000	2,506	5,873	9,551	22,070	
12 years	83,348	5,025	13,038	23,203	42,082	
13 years or more	57,987	4,096	10,364	19,749	23,778	
Not stated	6,017	386	1,031	1,634	2,966	
			F	Rate ³		
- ·				400.0		
Both sexes	365.6	107.2	197.9	426.9	1,011.4	370.0
Under 12 years	643.1	203.6	365.8	712.7	1,390.6	585.3
12 years	484.9	157.9	265.5	574.1	1,201.8	474.5
13 years or more	203.3	53.0	106.9	262.1	619.6	219.1
Male	460.9	148.9	254.9	545.4	1,265.4	472.0
Under 12 years	808.1	275.1	463.0	952.4	1,792.0	763.7
12 years	614.2	215.1	345.1	795.5	1,590.0	636.7
13 years or more	252.0	69.7	129.0	312.3	744.0	264.2
Female	273.4	66.1	141.5	313.3	779.6	273.4
Under 12 years	471.9	121.5	254.9	486.3	1,028.6	409.9
12 years	364.7	95.4	183.8	395.4	909.5	337.3
13 years or more	155.9	37.8	86.2	209.0	486.6	172.6

^{...} Category not applicable.

1 Excludes figures for age not stated.

2 Calculated based on ages 25-64 years. For method of computation, see Technical notes.

3 Excludes education not stated.

Table 24. Number of deaths, death rates, and age-adjusted death rates for ages 15 years and over, by injury at work, race, and sex: United States, 1999

[Rates per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes]

Race and sex	15 years and over ¹	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65 years and over	Age- adjusted rate ²
				Nun	nber			
All races ³ , both sexes	5,651 5,152 499	543 499 44	1,014 934 80	1,366 1,265 101	1,270 1,161 109	800 741 59	658 552 106	
White, both sexes	4,805 4,385 420	464 431 33	847 781 66	1,145 1,063 82	1,043 956 87	688 638 50	618 516 102	• • • • • • • • • • • • • • • • • • • •
Black, both sexes	659 598 61	60 52 8	129 119 10	174 159 15	171 155 16	93 84 9	32 29 3	• • • • • • • • • • • • • • • • • • • •
				Ra	ate			
All races ³ , both sexes	2.6 5.0 0.5	1.4 2.6 0.2	2.7 5.0 0.4	3.0 5.7 0.4	3.5 6.6 0.6	3.4 6.6 0.5	1.9 3.9 0.5	2.6 5.0 0.4
White, both sexes	2.7 5.1 0.5	1.5 2.8 0.2	2.8 5.1 0.4	3.1 5.7 0.4	3.4 6.4 0.6	3.4 6.6 0.5	2.0 4.0 0.6	2.7 5.0 0.4
Black, both sexes Male Female	2.6 5.0 0.4	1.0 1.8 *	2.4 4.7 *	3.1 6.0 *	4.4 8.7 *	4.0 8.3 *	1.1 2.6 *	2.6 5.2 0.5

^{...} Category not applicable.

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

1 Excludes figures for age not stated.

2 Calculated based on ages 15 years and over. For method of computation, see Technical notes.

3 Includes races other than white and black.

Table 25. Number of deaths, death rates, and age-adjusted death rates for injury at work, by race and sex: United States, 1993-99

[Includes ages 15 years and over. Rates on an annual basis per 100,000 population in specified group; age-adjusted rates per 100,000 U.S. standard population based on year 2000 standard; see Technical notes. For discussion of injury at work, see Technical notes]

									All o	ther		
		All races			White			Total			Black	
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
						Nur	nber					
1999	5,651 5,543 5,666 5,778 5,872 5,987 5,847	5,152 5,036 5,144 5,280 5,334 5,425 5,352	499 507 522 498 538 562 495	4,805 4,804 4,785 4,940 5,007 5,103 4,979	4,385 4,366 4,352 4,535 4,550 4,642 4,581	420 438 433 405 457 461 398	846 739 881 838 865 884 868	767 670 792 745 784 783 771	79 69 89 93 81 101 97	659 587 684 649 692 710 677	598 535 626 582 627 632 608	61 52 58 67 65 78 69
						R	ate					
1999	2.6 2.6 2.7 2.8 2.9 2.9	5.0 4.9 5.1 5.3 5.4 5.6 5.5	0.5 0.5 0.5 0.5 0.5 0.5	2.7 2.7 2.7 2.8 2.9 3.0 2.9	5.1 5.1 5.4 5.4 5.6 5.6	0.5 0.5 0.5 0.5 0.5 0.5	2.4 2.1 2.6 2.5 2.6 2.8 2.8	4.6 4.1 5.0 4.8 5.1 5.2 5.3	0.4 0.4 0.5 0.5 0.5 0.6 0.6	2.6 2.3 2.7 2.6 2.9 3.0 2.9	5.0 4.5 5.4 5.1 5.6 5.8 5.6	0.4 0.4 0.4 0.5 0.5 0.6
						Age-adju	usted rate ¹					
1999	2.6 2.6 2.7 2.8 2.9 3.0 2.9	5.0 4.9 5.1 5.3 5.4 5.6 5.6	0.4 0.5 0.5 0.4 0.5 0.5	2.7 2.7 2.7 2.9 2.9 3.0 2.9	5.0 5.1 5.1 5.4 5.4 5.6 5.6	0.4 0.5 0.5 0.5 0.5 0.5	2.4 2.2 2.6 2.5 2.7 2.8 2.8	4.7 4.3 5.2 4.9 5.5 5.5	0.4 0.4 0.5 0.5 0.5 0.6	2.6 2.4 2.8 2.7 3.0 3.1 3.0	5.2 4.8 5.7 5.3 6.1 6.1 6.0	0.5 0.4 0.4 0.5 0.5 0.6

¹ Calculated based on ages 15 years and over. For method of computation, see Technical notes.

Table 26. Number of deaths, death rates, and age-adjusted death rates for major causes of death for the United States, each division, each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 1999

		All causes			immunode) disease (Malignant r	neoplasms	(C00-C97)	Diabetes	mellitus (E	E10-E14)
Area	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	2,391,399	877.0	881.9	14,802	5.4	5.4	549,838	201.6	202.7	68,399	25.1	25.2
New England	121,785	902.4	819.6	536	4.0	3.8	30,068	222.8	206.9	3,102	23.0	21.1
Maine	12,261	978.5	896.3	17	*	*	3,035	242.2	223.2	348	27.8	25.4
New Hampshire	9,537	794.0	835.2	12	*	*	2,408	200.5	211.3	294	24.5	25.9
Vermont Massachusetts	4,993 55,840	840.9 904.3	843.9 816.7	12 257	4.2	4.0	1,255 13,853	211.4 224.3	213.1 207.8	179 1,354	30.1 21.9	30.7 20.0
Rhode Island	9,708	979.8	812.8	35	3.5	3.6	2,463	248.6	214.0	236	23.8	20.4
Connecticut	29,446	897.2	792.3	203	6.2	6.1	7,054	214.9	194.5	691	21.1	18.8
Middle Atlantic	364,191	950.0	864.8	3,786	9.9	9.7	86,099	224.6	205.5	9,977	26.0	23.7
New York	159,927	878.9	836.0	2,375	13.1	12.8	37,609	206.7	197.8	3,799	20.9	19.9
New Jersey	73,981	908.5	857.8	913	11.2	10.8	18,178	223.2	210.6	2,436	29.9	28.2
Pennsylvania East North Central	130,283 406,160	1,086.2 913.9	907.5 909.3	498 1,206	4.2 2.7	4.1 2.7	30,312 93,654	252.7 210.7	212.7 210.2	3,742 12,130	31.2 27.3	25.9 27.2
Ohio	108,517	964.0	933.6	244	2.2	2.7	25,233	224.2	216.2	3,675	32.6	31.5
Indiana	55,303	930.6	941.4	111	1.9	1.9	12,898	217.0	219.1	1,591	26.8	27.1
Illinois	108,436	894.1	903.1	548	4.5	4.5	25,024	206.3	210.5	3,004	24.8	25.2
Michigan	87,232	884.4	906.9	238	2.4	2.4	19,744	200.2	204.1	2,587	26.2	26.8
Wisconsin	46,672	888.9	838.1	65	1.2	1.2	10,755	204.8	197.7	1,273	24.2	23.1
West North Central Minnesota	175,986 38,537	936.1 807.0	856.7 792.2	314 72	1.7 1.5	1.7 1.5	39,166 8,892	208.3 186.2	197.1 189.1	4,908 1,249	26.1 26.2	24.2 26.0
lowa	28,411	990.1	815.3	21	0.7	0.8	6,346	221.2	191.2	684	23.8	19.9
Missouri	55,931	1,022.8	954.1	150	2.7	2.8	12.186	222.8	210.7	1,554	28.4	26.6
North Dakota	6,103	963.1	802.6	3	*	*	1,366	215.6	188.4	203	32.0	27.0
South Dakota	6,953	948.4	820.2	5	*	*	1,632	222.6	201.0	196	26.7	23.5
Nebraska	15,579	935.1	838.7	20	1.2	1.3	3,410	204.7	191.7	372	22.3	20.5
Kansas	24,472	922.1	850.5	43	1.6	1.7	5,334	201.0	193.0	650	24.5	23.0
South Atlantic Delaware	463,105 6,666	934.4 884.6	903.2 904.6	4,425 65	8.9 8.6	8.8 8.5	106,954 1,737	215.8 230.5	206.2 231.0	13,015 179	26.3 23.8	25.2 24.2
Maryland	43,089	833.2	911.2	592	11.4	10.8	10,143	196.1	212.0	1,422	27.5	30.0
District of Columbia	6,076	1,170.7	1,082.7	266	51.3	47.1	1,340	258.2	236.9	221	42.6	38.9
Virginia	55,320	804.9	905.9	265	3.9	3.7	13,365	194.5	213.5	1,486	21.6	24.0
West Virginia	21,049	1,164.9	1,013.3	21	1.2	1.2	4,762	263.5	225.6	734	40.6	34.9
North Carolina	69,600	909.7	943.6	466	6.1	6.0	15,815	206.7	210.3	2,050	26.8	27.4
South Carolina Georgia	36,053 62,028	927.8 796.4	996.0 983.9	307 786	7.9 10.1	7.8 9.8	8,089 13,225	208.2 169.8	216.1 206.5	1,118 1,448	28.8 18.6	30.3 23.1
Florida	163,224	1,080.1	833.9	1,657	11.0	11.3	38,478	254.6	196.2	4,357	28.8	22.1
East South Central	166,077	1,001.5	1,019.5	667	4.0	4.0	36,517	220.2	221.2	4,503	27.2	27.5
Kentucky	39,321	992.7	1,012.8	76	1.9	1.9	8,925	225.3	226.1	1,133	28.6	29.0
Tennessee	53,765	980.5	1,001.9	258	4.7	4.6	11,943	217.8	218.6	1,436	26.2	26.6
Alabama	44,806	1,025.3	1,021.1	177	4.1	4.0	9,506	217.5	213.5	1,341	30.7	30.4
Mississippi West South Central	28,185 250,721	1,018.0 826.8	1,064.9 936.9	156 1,615	5.6 5.3	5.9 5.4	6,143 55,616	221.9 183.4	232.4 206.1	593 8,295	21.4 27.4	22.4 31.0
Arkansas	27,925	1,094.5	1.005.4	67	2.6	2.8	6,137	240.5	220.6	691	27.4	24.9
Louisiana	41,238	943.2	1,040.7	373	8.5	8.9	9,412	215.3	233.9	1,687	38.6	42.5
Oklahoma	34,700	1,033.3	985.0	103	3.1	3.2	7,312	217.7	207.8	986	29.4	28.1
Texas	146,858	732.7	892.2	1,072	5.3	5.4	32,755	163.4	196.8	4,931	24.6	30.0
Mountain	129,729	757.4	846.8	433	2.5	2.6	28,590	166.9	183.5	3,623	21.2	23.6
MontanaIdaho	8,128 9,579	920.7 765.3	861.2 825.2	6 5	*	*	1,854 2,162	210.0 172.7	196.2 186.5	244 267	27.6 21.3	25.9 23.1
Wyoming	4,042	842.8	909.0	2	*	*	899	187.4	197.5	135	28.1	30.2
Colorado	27,114	668.5	801.2	104	2.6	2.5	5,863	144.5	169.8	639	15.8	19.1
New Mexico	13,676	786.0	875.7	29	1.7	1.7	2,857	164.2	180.1	517	29.7	32.7
Arizona	40,050	838.2	850.1	153	3.2	3.4	9,006	188.5	188.0	1,063	22.2	22.4
Utah	12,058	566.1	787.1	29	1.4	1.7	2,393	112.4	157.1	472	22.2	31.6
Nevada Pacific	15,082 313 645	833.6 712.5	967.1 795.5	105 1,820	5.8 4.1	5.7 4.1	3,556 73,174	196.5	214.8	286 8 846	15.8 20.1	17.8 22.5
Washington	313,645 43,865	712.5 762.0	795.5 816.1	1,820	1.9	1.9	73,174 10,653	166.2 185.1	185.6 199.0	8,846 1,307	20.1	22.5 24.5
Oregon	29,422	887.2	839.2	75	2.3	2.3	6,905	208.2	198.4	860	25.9	24.6
California	229,380	692.0	791.0	1,593	4.8	4.8	53,067	160.1	183.1	6,401	19.3	22.2
Alaska	2,708	437.1	834.4	13	*	*	633	102.2	187.0	67	10.8	23.6
Hawaii	8,270	697.6	680.3	29	2.4	2.4	1,916	161.6	154.7	211	17.8	17.1
Puerto Rico ²	28,967	744.7	895.5	683	17.6	19.8	4,592	118.1	142.6	2,392	61.5	74.7
Virgin Islands ²	659	550.9	805.2	10	*	*	117	97.8	147.9	40	33.4	52.7
Guam ² American Samoa ²	693 246	456.0 385.7	832.9 832.8	1 -	*	*	102 36	67.1 56.4	123.0 132.2	25 22	16.5 34.5	33.0 96.4
Northern Marianas ²	162	234.0	1,016.9	-	*	*	22	31.8	132.2	9	34.5 *	90.4 *
	102	204.0	1,010.0					31.0	1 40.0	3		

Table 26. Number of deaths, death rates, and age-adjusted death rates for major causes of death for the United States, each division, each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 1999 - Con.

	Alzheime	er's diseas	e (G30)		eases of he 9,111,113,12			rebrovascu ases (160-			fluenza an nonia (J10	
Area	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	44,536	16.3	16.5	725,192	265.9	267.8	167,366	61.4	61.8	63,730	23.4	23.6
New England	2,672	19.8	17.1	35,517	263.2	235.5	8,006	59.3	52.3	3,697	27.4	23.9
Maine	429	34.2	30.7	3,418	272.8	247.5	879	70.1	63.4	287	22.9	20.6
New Hampshire	266	22.1	23.3	2,751	229.0	241.5	669	55.7	58.6	187	15.6	16.4
Vermont Massachusetts	127 1,182	21.4 19.1	21.1 16.4	1,342 15,871	226.0 257.0	225.6 228.8	344 3,548	57.9 57.5	57.7 50.3	134 1,904	22.6 30.8	22.4 26.8
Rhode Island	219	22.1	16.6	3,008	303.6	243.6	633	63.9	49.9	300	30.3	23.2
Connecticut	449	13.7	11.4	9,127	278.1	240.7	1,933	58.9	50.1	885	27.0	22.7
Middle Atlantic New York	4,590 1,357	12.0 7.5	10.6 7.0	124,187 58,987	324.0 324.2	291.2 305.6	20,846 8,124	54.4 44.6	48.8 42.1	10,673 5,482	27.8 30.1	24.9 28.2
New Jersey	1,041	12.8	12.0	23,493	288.5	271.0	4,122	50.6	47.5	2,075	25.5	23.9
Pennsylvania	2,192	18.3	14.5	41,707	347.7	284.8	8,600	71.7	58.0	3,116	26.0	21.1
East North Central	7,714	17.4	17.2	124,760	280.7	279.0	28,916	65.1	64.6	10,856	24.4	24.2
Ohio	2,099 1,106	18.6 18.6	18.1 19.0	33,192 16,661	294.9 280.4	285.1 284.2	7,235 4,057	64.3 68.3	62.1 69.4	2,641 1,362	23.5 22.9	22.8 23.3
Indiana Illinois	1,108	15.7	15.7	33,387	275.3	277.8	7,714	63.6	63.9	3,121	25.7	25.7
Michigan	1,431	14.5	15.1	27,693	280.8	289.1	6,041	61.2	63.3	2,307	23.4	24.2
Wisconsin	1,170	22.3	20.0	13,827	263.3	245.4	3,869	73.7	67.9	1,425	27.1	24.7
West North Central Minnesota	3,855 1,083	20.5 22.7	17.6 21.3	51,535 9,533	274.1 199.6	246.6 194.1	13,341 2,997	71.0 62.8	62.7 60.1	5,431 1,077	28.9 22.6	25.1 21.2
lowa	706	24.6	18.4	8,699	303.2	242.9	2,337	80.7	62.7	1,082	37.7	28.7
Missouri	914	16.7	15.0	17,974	328.7	302.9	3,950	72.2	66.1	1,716	31.4	28.5
North Dakota	155	24.5	18.2	1,833	289.3	235.6	513	81.0	63.4	157	24.8	19.5
South Dakota Nebraska	155 331	21.1 19.9	16.4 16.4	2,024 4,497	276.1 269.9	231.6 236.9	547 1,176	74.6 70.6	60.7 60.6	264 459	36.0 27.6	28.4 23.1
Kansas	511	19.3	16.6	6,975	262.8	237.5	1,841	69.4	61.7	676	25.5	22.2
South Atlantic	8,357	16.9	16.5	136,097	274.6	265.5	32,563	65.7	63.6	11,330	22.9	22.3
Delaware	107	14.2	15.3	2,011	266.9	275.9	365	48.4	50.4	155	20.6	21.7
Maryland District of Columbia	681 53	13.2 10.2	15.3 9.2	12,080 1,652	233.6 318.3	259.9 289.9	2,892 297	55.9 57.2	63.1 52.2	1,140 116	22.0 22.4	25.1 20.2
Virginia	917	13.3	16.1	15,329	223.0	255.5	4,110	59.8	69.8	1,594	23.2	27.5
West Virginia	314	17.4	15.0	6,822	377.5	325.4	1,323	73.2	63.1	520	28.8	25.0
North Carolina	1,456	19.0	20.7	19,191	250.8	262.7	5,626	73.5	78.1	1,891	24.7	26.5
South Carolina Georgia	690 1,080	17.8 13.9	21.1 19.1	9,981 17,597	256.9 225.9	280.1 288.0	2,974 4,416	76.5 56.7	85.6 73.6	883 1,703	22.7 21.9	25.9 28.8
Florida	3,059	20.2	14.4	51,434	340.4	253.0	10,560	69.9	51.5	3,328	22.0	16.3
East South Central	2,800	16.9	17.7	51,133	308.3	315.7	11,815	71.2	73.6	4,815	29.0	30.2
Kentucky	728	18.4	19.4	12,098	305.4	313.4	2,710	68.4	71.0	1,198	30.2	31.6
Tennessee Alabama	944 772	17.2 17.7	18.3 18.0	16,280 13,419	296.9 307.1	305.5 306.8	4,103 3,148	74.8 72.0	78.0 72.4	1,588 1,228	29.0 28.1	30.3 28.6
Mississippi	356	12.9	13.7	9,336	337.2	354.9	1,854	67.0	70.8	801	28.9	30.5
West South Central	4,503	14.8	17.7	75,003	247.3	285.5	17,834	58.8	68.7	6,290	20.7	24.3
Arkansas Louisiana	434 683	17.0 15.6	15.3 18.4	8,315 12,007	325.9 274.6	296.5 308.2	2,255 2,684	88.4 61.4	80.0 69.6	741 1,008	29.0 23.1	26.2 26.6
Oklahoma	553	16.5	15.5	11,263	335.4	317.4	2,481	73.9	69.8	1,000	30.0	28.1
Texas	2,833	14.1	18.6	43,418	216.6	271.5	10,414	52.0	66.2	3,534	17.6	22.5
Mountain	2,937	17.1	20.5	33,279	194.3	221.7	8,633	50.4	58.6	3,849	22.5	26.2
MontanaIdaho	205 243	23.2 19.4	21.3 21.2	2,049 2,532	232.1 202.3	215.2 220.0	595 771	67.4 61.6	62.2 67.2	252 289	28.5 23.1	26.4 25.2
Wyoming	103	21.5	24.3	1,009	210.4	231.1	265	55.3	61.7	130	27.1	30.5
Colorado	756	18.6	24.4	6,420	158.3	195.3	1,834	45.2	57.0	807	19.9	25.1
New Mexico	248	14.3	17.1	3,452	198.4	226.7	817	47.0	54.5	374	21.5	25.1
Arizona Utah	963 245	20.2 11.5	21.2 17.2	10,800 2,786	226.0 130.8	230.8 190.5	2,600 869	54.4 40.8	56.1 60.2	1,287 391	26.9 18.4	28.0 27.0
Nevada	174	9.6	13.7	4,231	233.9	281.8	882	48.7	60.7	319	17.6	22.7
Pacific	7,108	16.1	18.6	93,681	212.8	241.2	25,412	57.7	65.6	6,789	15.4	17.6
Washington	1,577	27.4	29.7	11,515	200.0	215.6	3,718	64.6	69.8	1,259	21.9	23.6
Oregon California	866 4,532	26.1 13.7	24.1 16.2	7,263 71,930	219.0 217.0	205.7 252.8	2,799 17,962	84.4 54.2	78.6 63.2	695 4,560	21.0 13.8	19.5 16.1
Alaska	24	3.9	11.8	563	90.9	196.1	17,302	27.6	70.7	46	7.4	19.7
Hawaii	109	9.2	9.3	2,410	203.3	198.8	762	64.3	63.2	229	19.3	19.2
Puerto Rico ²	651	16.7	21.5	6,446	165.7	205.2	1,814	46.6	58.5	1,113	28.6	35.7
Virgin Islands ² Guam ²	7 2	*	*	181 197	151.3 129.6	235.4 264.5	38 66	31.8 43.4	52.1 94.6	13 21	13.8	32.0
American Samoa ²	-	*	*	45	70.6	166.1	15	*	<i>3</i> 4.0 ∗	3	*	رے *
	_	_	*	30	43.3	283.8	11	_		-	_	

Table 26. Number of deaths, death rates, and age-adjusted death rates for major causes of death for the United States, each division, each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 1999 - Con.

	C	hronic lowe			nic liver dis osis (K70,k			nephrotic s nd nephros ,N17-N19,I	is	Accidente	(V01-X59,	V85-V86)
	respiratory	/ uiseases	(340-347)	and cirric)SIS (K/U,r	(73-1(74)	(1100-1107	,1417-1419,1	N23-N27)	Accidents	(٧01-٨59,	100-100)
Area	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	124,181	45.5	45.8	26,259	9.6	9.7	35,525	13.0	13.1	97,860	35.9	35.9
New England	6,435	47.7	43.0	1,277	9.5	9.1	2,035	15.1	13.6	3,576	26.5	25.3
Maine	751	59.9	54.6	128	10.2	9.5	191	15.2	13.9	458	36.6	35.1
New Hampshire	592	49.3	52.1	87	7.2	7.6	93	7.7	8.1	329	27.4	27.9
Vermont	300	50.5	51.5	52	8.8	8.6	56	9.4	9.6	209	35.2	34.8
Massachusetts	2,862	46.3	41.6	590	9.6	9.2	1,127	18.3	16.2	1,303	21.1	19.9
Rhode Island	495	50.0	40.6	119	12.0	11.4	111	11.2	9.0	243	24.5	22.3
Connecticut	1,435	43.7	38.0	301	9.2	8.7	457	13.9	12.2	1,034	31.5	30.1
Middle Atlantic New York	16,357	42.7 38.9	38.3 37.0	3,349 1,534	8.7 8.4	8.2 8.2	6,362	16.6 12.7	14.9 12.0	11,638	30.4 26.4	29.2 25.8
New Jersey	7,086 3,130	38.4	36.0	791	9.7	9.3	2,302 1,380	16.9	15.9	4,797 2,227	27.3	26.7
Pennsylvania	6,141	51.2	41.6	1,024	8.5	7.6	2,680	22.3	18.2	4,614	38.5	35.9
East North Central	20,652	46.5	46.2	3,983	9.0	9.0	6,829	15.4	15.3	15,207	34.2	34.1
Ohio	5,858	52.0	49.9	1,007	8.9	8.7	1,748	15.5	15.0	3,630	32.2	31.9
Indiana	3,053	51.4	52.0	444	7.5	7.5	1,022	17.2	17.4	2,309	38.9	38.9
Illinois	5,155	42.5	43.2	1,095	9.0	9.2	1,965	16.2	16.4	4,125	34.0	34.1
Michigan	4,316	43.8	44.8	1,029	10.4	10.6	1,417	14.4	14.8	3,188	32.3	32.6
Wisconsin	2,270	43.2	40.8	408	7.8	7.7	677	12.9	12.0	1,955	37.2	36.0
West North Central	9,644	51.3	47.3	1,399	7.4	7.3	2,542	13.5	12.1	7,772	41.3	39.5
Minnesota	1,994	41.8	41.6	313	6.6	6.8	605	12.7	12.2	1,772	37.1	36.3
lowa	1,643	57.3	47.5	209	7.3	6.7	226	7.9	6.5	1,123	39.1	35.8
Missouri North Dakota	3,068 273	56.1 43.1	52.3 36.2	428 56	7.8 8.8	7.6 8.7	907 85	16.6 13.4	15.2 10.5	2,465 267	45.1 42.1	43.8 39.0
South Dakota	335	45.7	39.3	82	11.2	11.4	97	13.4	10.5	351	47.9	45.7
Nebraska	945	56.7	51.3	123	7.4	7.4	232	13.9	12.2	668	40.1	38.0
Kansas	1,386	52.2	48.8	188	7.1	7.1	390	14.7	13.2	1,126	42.4	40.9
South Atlantic	23,901	48.2	45.9	5,083	10.3	9.9	6,694	13.5	13.0	18,966	38.3	37.8
Delaware	327	43.4	43.9	68	9.0	9.0	100	13.3	13.7	267	35.4	36.1
Maryland	1,943	37.6	41.7	481	9.3	9.5	563	10.9	12.1	1,296	25.1	26.1
District of Columbia	166	32.0	29.3	57	11.0	10.3	91	17.5	16.0	161	31.0	29.1
Virginia	2,699	39.3	44.6	525	7.6	8.0	1,035	15.1	17.2	2,214	32.2	33.6
West Virginia	1,236	68.4	58.1	207	11.5	10.0	345	19.1	16.5	798	44.2	42.0
North Carolina	3,591	46.9	48.4	731	9.6	9.6	1,138	14.9	15.5	3,290	43.0	43.6
South Carolina	1,752	45.1	48.0 50.1	415 627	10.7 8.1	10.8 9.0	434	11.2 14.7	12.1	1,901	48.9	50.1 42.6
Georgia Florida	3,056 9,131	39.2 60.4	44.0	1,972	13.0	11.4	1,142 1,846	12.2	18.6 9.1	3,078 5,961	39.5 39.4	37.3
East South Central	8,521	51.4	52.1	1,597	9.6	9.6	2,962	17.9	18.3	8,362	50.4	50.5
Kentucky	2,327	58.8	59.7	386	9.7	9.6	685	17.3	17.8	1,730	43.7	43.7
Tennessee	2,748	50.1	51.1	549	10.0	9.9	675	12.3	12.6	2,677	48.8	49.0
Alabama	2,179	49.9	49.3	412	9.4	9.2	979	22.4	22.5	2,313	52.9	52.6
Mississippi	1,267	45.8	48.1	250	9.0	9.5	623	22.5	23.7	1,642	59.3	60.0
West South Central	12,237	40.4	46.6	3,079	10.2	11.0	3,463	11.4	13.2	12,063	39.8	41.4
Arkansas	1,358	53.2	48.2	218	8.5	8.2	458	18.0	16.3	1,287	50.4	49.4
Louisiana	1,610	36.8	41.0	392	9.0	9.5	911	20.8	23.4	1,940	44.4	45.6
Oklahoma	1,751	52.1	49.6	365	10.9	10.7	425	12.7	12.0	1,609	47.9	47.2
Texas	7,518	37.5	47.2	2,104	10.5	11.8	1,669	8.3	10.4	7,227	36.1	38.3
Mountain	8,355 566	48.8 64.1	55.0 60.0	1,966 91	11.5 10.3	12.1 9.7	1,672 92	9.8 10.4	11.1 9.6	7,378 461	43.1 52.2	44.9 50.7
MontanaIdaho	568	45.4	49.7	88	7.0	7.5	99	7.9	8.6	597	47.7	48.7
Wyoming	338	70.5	76.6	49	10.2	10.4	30	6.3	6.9	258	53.8	53.9
Colorado	1,894	46.7	57.9	391	9.6	9.8	312	7.7	9.6	1,519	37.4	40.1
New Mexico	848	48.7	55.0	288	16.6	17.3	162	9.3	10.5	969	55.7	58.2
Arizona	2,553	53.4	53.3	653	13.7	14.0	544	11.4	11.5	2,214	46.3	47.1
Utah	559	26.2	37.8	138	6.5	8.7	135	6.3	9.2	650	30.5	34.3
Nevada	1,029	56.9	66.5	268	14.8	15.0	298	16.5	19.7	710	39.2	41.0
Pacific	18,079	41.1	46.4	4,526	10.3	11.1	2,966	6.7	7.6	12,898	29.3	30.1
Washington	2,713	47.1	51.2	532	9.2	9.6	278	4.8	5.2	1,914	33.3	33.6
Oregon	1,765	53.2	50.4	306	9.2	8.8	260	7.8	7.3	1,199	36.2	35.3
California	13,165 146	39.7 23.6	46.0 55.7	3,572 46	10.8 7.4	12.0 9.8	2,261 34	6.8 5.5	7.9 13.3	9,198 294	27.8 47.5	28.7 57.8
Alaska Hawaii	290	24.5	23.6	70	5.9	5.5	133	11.2	11.0	293	24.7	24.5
Puerto Rico ²	1,294	33.3	41.5	375	9.6	11.3	809	20.8	25.4	1,311	33.7	36.0
Virgin Islands ²	7	*	*	18	*	*	11	*	*	41	34.3	42.8
Guam ² American Samoa ²	30	19.7	42.5	23	15.1	20.6	18	*	*	39	25.7	30.0
	12	**	**	2			7			19		
Northern Marianas ²	6	*	*	1	*	*	3	*	*	22	31.8	29.9

Table 26. Number of deaths, death rates, and age-adjusted death rates for major causes of death for the United States, each division, each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 1999 - Con.

	Motor v	ehicle acci	dents ³		tional self-h) (X60-X84			ault (homic 5-Y09,Y87		Injur	y by firearı	ms ⁴
Area	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	42,401	15.5	15.5	29,199	10.7	10.7	16,889	6.2	6.2	28,874	10.6	10.6
New England	1,249	9.3	9.2	1,176	8.7	8.5	352	2.6	2.6	691	5.1	5.1
Maine	199	15.9	15.7	175	14.0	13.4	25	2.0	2.0	113	9.0	8.7
New Hampshire	129	10.7	10.9	137	11.4	11.3	21	1.7	1.7	71	5.9	5.9
Vermont Massachusetts	83 441	14.0 7.1	13.8 7.1	63 431	10.6 7.0	10.3 6.8	17 133	2.2	2.2	57 195	9.6 3.2	9.3 3.1
Rhode Island	89	9.0	8.8	96	9.7	9.6	36	3.6	3.7	56	5.7	5.6
Connecticut	308	9.4	9.5	274	8.3	8.3	120	3.7	3.8	199	6.1	6.2
Middle Atlantic	4,066	10.6	10.5	3,043	7.9	7.8	1,906	5.0	5.0	2,572	6.7	6.7
New York	1,759	9.7	9.6	1,196	6.6	6.5	969	5.3	5.4	1,016	5.6	5.6
New Jersey	727	8.9	8.9	563	6.9	6.8	298	3.7	3.7	366	4.5	4.5
Pennsylvania	1,580	13.2	13.0	1,284	10.7	10.5	639	5.3	5.5	1,190	9.9	9.9
East North Central	6,138 1,427	13.8 12.7	13.8 12.6	4,317 1,102	9.7 9.8	9.7 9.7	2,820 450	6.3 4.0	6.3 4.0	4,361 939	9.8 8.3	9.8 8.3
Indiana	988	16.6	16.6	628	10.6	10.6	386	6.5	6.4	680	11.4	11.4
Illinois	1,537	12.7	12.7	1,020	8.4	8.5	1,023	8.4	8.4	1,209	10.0	10.0
Michigan	1,411	14.3	14.3	974	9.9	9.9	759	7.7	7.6	1,085	11.0	11.0
Wisconsin	775	14.8	14.6	593	11.3	11.2	202	3.8	3.8	448	8.5	8.5
West North Central	3,409	18.1	17.9	2,094	11.1	11.1	811	4.3	4.3	1,746	9.3	9.2
Minnesota	646 529	13.5	13.5	437 305	9.2	9.2 10.4	139 53	2.9	2.9	296 202	6.2 7.0	6.2
lowa Missouri	1,061	18.4 19.4	18.0 19.2	700	10.6 12.8	10.4	385	1.8 7.0	1.9 7.1	711	13.0	6.9 12.9
North Dakota	134	21.1	20.4	73	11.5	11.2	13	*	*	49	7.7	7.5
South Dakota	174	23.7	23.5	103	14.0	14.0	23	3.1	3.3	73	10.0	9.9
Nebraska	295	17.7	17.5	177	10.6	10.8	61	3.7	3.6	146	8.8	8.8
Kansas	570	21.5	21.2	299	11.3	11.3	137	5.2	5.1	269	10.1	10.1
South Atlantic	9,013	18.2	18.1	5,775	11.7	11.5	3,821	7.7	7.7	6,396	12.9	12.8
Delaware	98 609	13.0 11.8	13.0 12.0	86 435	11.4 8.4	11.2 8.4	24 531	3.2 10.3	3.1 10.2	68 657	9.0 12.7	8.9 12.8
Maryland District of Columbia	36	6.9	6.9	30	5.8	5.4	186	35.8	36.8	163	31.4	32.3
Virginia	897	13.1	13.1	791	11.5	11.4	419	6.1	5.9	823	12.0	11.9
West Virginia	387	21.4	21.0	229	12.7	12.2	99	5.5	5.5	250	13.8	13.3
North Carolina	1,597	20.9	20.9	884	11.6	11.5	651	8.5	8.4	1,057	13.8	13.8
South Carolina	996	25.6	25.5	418	10.8	10.7	313	8.1	7.9	552	14.2	14.0
Georgia	1,521	19.5	19.8	873	11.2	11.5	634	8.1	7.8	1,105	14.2	14.2
Florida East South Central	2,872 4,254	19.0 25.7	18.8 25.4	2,029 2,055	13.4 12.4	12.9 12.3	964 1,383	6.4 8.3	6.7 8.2	1,721 2,678	11.4 16.1	11.2 16.0
Kentucky	814	20.6	20.3	470	11.9	11.7	210	5.3	5.2	525	13.3	13.1
Tennessee	1,322	24.1	24.0	726	13.2	13.0	423	7.7	7.6	848	15.5	15.3
Alabama	1,162	26.6	26.3	555	12.7	12.5	438	10.0	9.9	790	18.1	17.8
Mississippi	956	34.5	34.5	304	11.0	11.2	312	11.3	11.1	515	18.6	18.6
West South Central	5,980	19.7	19.9	3,351	11.1	11.4	2,213	7.3	7.2	3,793	12.5	12.7
Arkansas	649	25.4	25.4	336	13.2	13.2	179	7.0	7.1	388	15.2	15.2
Louisiana Oklahoma	976 686	22.3 20.4	22.3 20.2	518 492	11.8 14.7	12.1 14.9	484 231	11.1 6.9	10.9 6.9	779 509	17.8 15.2	17.9 15.2
Texas	3,669	18.3	18.7	2,005	10.0	10.4	1,319	6.6	6.5	2,117	10.6	10.8
Mountain	3,309	19.3	19.6	2,785	16.3	16.8	1,131	6.6	6.5	2,479	14.5	14.8
Montana	210	23.8	23.5	162	18.4	18.0	33	3.7	3.9	123	13.9	13.6
Idaho	278	22.2	22.2	181	14.5	15.0	31	2.5	2.4	151	12.1	12.3
Wyoming	144	30.0	29.2	98 574	20.4	20.8	13	4.0	4.0	74 452	15.4	15.5
Colorado New Mexico	620 415	15.3 23.9	15.5 24.3	574 318	14.2 18.3	14.3 18.8	199 167	4.9 9.6	4.8 9.6	452 290	11.1 16.7	11.3 17.0
Arizona	945	19.8	20.0	766	16.0	16.5	470	9.8	9.0	822	17.2	17.0
Utah	364	17.1	17.7	282	13.2	14.7	51	2.4	2.4	192	9.0	9.9
Nevada	333	18.4	18.9	404	22.3	23.0	167	9.2	9.4	375	20.7	21.6
Pacific	4,983	11.3	11.4	4,603	10.5	10.7	2,452	5.6	5.4	4,158	9.4	9.5
Washington	732	12.7	12.7	816	14.2	14.2	190	3.3	3.3	585	10.2	10.2
Oregon	433	13.1	12.9	478 2 077	14.4	14.2	107	3.2	3.3	389	11.7	11.6
California Alaska	3,641 87	11.0 14.0	11.2 15.4	3,077 96	9.3 15.5	9.6 17.2	2,066 51	6.2 8.2	6.1 8.5	3,054 88	9.2 14.2	9.3 16.0
Hawaii	90	7.6	7.6	136	11.5	11.5	38	3.2	3.2	42	3.5	3.6
Puerto Rico ² Virgin Islands ²	483	12.4	12.7	289	7.4	8.2	664	17.1	15.7	690 16	17.7	16.3
Guam ²	12 27	17.8	19.6	6 36	23.7	25.2	27 10	22.6	24.0	16 8	*	*
American Samoa ²	3	17.0	19.0	1	۷۵. <i>۱</i> *	25.Z *	10	*	*	1	*	*
Northern Marianas ²	5	*	*	2	*	*	4	*	*	i		

^{*} 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.

Age-adjusted death rates for Puerto Rico, Virgin Islands, Guam, and American Samoa, and Northern Marianas, are calculated using different age groups in the weighting procedure; see Technical notes.

Formical notes:

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,V89.2.

ICD-10 codes for Injury by firearms are W32-W34,X72-X74,X93-X95,Y22-Y24,Y35.0.

Table 27. Infant, neonatal, and postneonatal mortality rates by race and sex: United States, 1940, 1950, 1960, 1970, and 1975-99

[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]

-									All ot	her		
-		All races			White			Total			Black	
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
						Infant mor	rtality rate					
Race of mother ¹												
1999	7.1	7.7	6.4	5.8	6.4	5.2	11.9	12.9	10.9	14.6	15.9	13.2
1998	7.2	7.8	6.5	6.0	6.5	5.4	11.9	13.0	10.8	14.3	15.7	12.8
1997 1996	7.2 7.3	8.0 8.0	6.5 6.6	6.0 6.1	6.7 6.7	5.4 5.4	11.8 12.2	12.8 13.3	10.7 11.0	14.2 14.7	15.5 16.0	12.8 13.3
1995	7.6	8.3	6.8	6.3	7.0	5.6	12.6	13.5	11.6	15.1	16.3	13.9
1994	8.0	8.8	7.2	6.6	7.0	5.9	13.5	14.8	12.1	15.8	17.5	14.1
1993	8.4	9.3	7.4	6.8	7.6	6.0	14.1	15.6	12.5	16.5	18.3	14.7
1992	8.5	9.4	7.6	6.9	7.7	6.1	14.4	15.7	13.1	16.8	18.4	15.3
1991	8.9	10.0	7.8	7.3	8.3	6.3	15.1	16.5	13.6	17.6	19.4	15.7
1990	9.2	10.3	8.1	7.6	8.5	6.6	15.5	17.0	14.0	18.0	19.6	16.2
1989	9.8	10.8	8.8	8.1	9.0	7.1	16.3	17.6	15.0	18.6	20.0	17.2
1988	10.0	11.0	8.9	8.4	9.4	7.3	16.1	17.3	14.8	18.5	20.0	17.0
1987	10.1	11.2	8.9 9.1	8.5	9.5	7.5	16.5	18.1	14.8	18.8	20.6	16.8
1986 1985	10.4 10.6	11.5 11.9	9.1	8.8 9.2	9.9 10.4	7.7 7.9	16.7 16.8	18.5 18.3	14.9 15.3	18.9 19.0	20.9 20.8	16.8 17.2
1984	10.8	11.9	9.6	9.3	10.4	8.2	17.1	18.4	15.7	19.2	20.7	17.6
1983	11.2	12.3	10.0	9.6	10.7	8.5	17.8	19.4	16.1	20.0	22.0	18.0
1982	11.5	12.8	10.2	9.9	11.1	8.7	18.3	20.1	16.5	20.5	22.5	18.4
1981	11.9	13.1	10.7	10.3	11.5	9.1	18.8	20.4	17.2	20.8	22.5	19.0
1980	12.6	13.9	11.2	10.9	12.1	9.5	20.2	21.9	18.4	22.2	24.2	20.2
Race of child ²												
1980	12.6	13.9	11.2	11.0	12.3	9.6	19.1	20.7	17.5	21.4	23.3	19.4
1979	13.1	14.5	11.6	11.4	12.8	9.9	19.8	21.5	18.1	21.8	23.7	19.8
1978	13.8	15.3	12.2	12.0	13.4	10.6	21.1	23.1	18.9	23.1	25.4	20.8
1977	14.1	15.8	12.4	12.3	13.9	10.7	21.7	23.7	19.6	23.6	25.9	21.3
1976 1975	15.2 16.1	16.8 17.9	13.6 14.2	13.3 14.2	14.8 15.9	11.7 12.3	23.5 24.2	25.5 26.2	21.4 22.2	25.5 26.2	27.8 28.3	23.2 24.0
1970	20.0	22.4	17.5	17.8	20.0	15.4	30.9	34.2	27.5	32.6	36.2	29.0
1960	26.0	29.3	22.6	22.9	26.0	19.6	43.2	47.9	38.5	44.3	49.1	39.4
1950	29.2	32.8	25.5	26.8	30.2	23.1	44.5	48.9	39.9	43.9	48.3	39.4
1940	47.0	52.5	41.3	43.2	48.3	37.8	73.8	82.2	65.2	72.9	81.1	64.6
						Neonatal m	ortality rate					
Race of mother ¹												
1999	4.7	5.1	4.3	3.9	4.2	3.6	7.9	8.6	7.3	9.8	10.7	8.8
1998	4.8	5.2	4.4	4.0	4.3	3.6	7.9	8.6	7.2	9.5	10.5	8.6
1997	4.8	5.2	4.3	4.0	4.4	3.6	7.7	8.4	7.1	9.4	10.1	8.6
1996 1995	4.8 4.9	5.2 5.4	4.3 4.4	4.0 4.1	4.3 4.5	3.6 3.6	7.9 8.1	8.6 8.7	7.1 7.5	9.6 9.8	10.4 10.6	8.7 9.0
1994	5.1	5.6	4.6	4.2	4.5	3.8	8.6	9.5	7.5	10.2	11.3	9.1
1993	5.3	5.7	4.8	4.3	4.6	3.9	9.0	9.9	8.1	10.7	11.8	9.6
1992	5.4	5.8	4.9	4.3	4.7	4.0	9.2	10.0	8.3	10.8	11.8	9.8
1991	5.6	6.2	5.0	4.5	5.0	4.0	9.5	10.5	8.5	11.2	12.6	9.9
1990	5.8	6.5	5.2	4.8	5.4	4.2	9.9	10.8	8.9	11.6	12.7	10.4
1989	6.2	6.8	5.6	5.1	5.7	4.6	10.3	11.1	9.5	11.9	12.8	11.0
1988	6.3 6.5	6.9 7.1	5.7 5.8	5.3 5.4	5.8 6.0	4.7 4.8	10.3 10.7	11.2 11.7	9.4 9.6	12.1 12.3	13.1 13.5	10.9
1987 1986	6.7	7.1	6.0	5.4 5.7	6.3	4.8 5.1	10.7	11.7	9.6	12.3	13.5	11.1 11.0
1985	7.0	7.4	6.1	6.0	6.8	5.2	11.0	12.0	10.0	12.6	13.8	11.4
1984	7.0	7.7	6.3	6.1	6.7	5.4	10.9	11.7	10.1	12.3	13.2	11.4
1983	7.3	8.0	6.5	6.3	7.0	5.6	11.4	12.5	10.3	12.9	14.2	11.6
1982	7.7	8.5	6.9	6.7	7.4	5.9	12.0	13.2	10.9	13.6	14.9	12.3
1981	8.0	8.8	7.2	7.0	7.7	6.2	12.5	13.5	11.5	14.0	15.2	12.8
1980	8.5	9.3	7.6	7.4	8.2	6.5	13.2	14.3	12.1	14.6	15.9	13.3
Race of child ²												
1980	8.5	9.3	7.6	7.5	8.3	6.6	12.5	13.5	11.5	14.1	15.3	12.8
1979	8.9	9.8	7.9	7.9	8.8	6.9	12.9	13.9	11.8	14.3	15.5	13.1
	9.5	10.5	8.4	8.4	9.3	7.4	14.0	15.5	12.4	15.5	17.2	13.7
	9.9	11.0	8.7	8.7	9.8	7.6 8.5	14.7 16.3	16.0 17.7	13.3 14.9	16.1 17.9	17.6	14.5
1977		400					In 3	1//	14.9	1/9		
1977 1976	10.9	12.0 12.9	9.7 10.2	9.7 10.4	10.7 11.7						19.5 19.8	16.3 16.8
1977 1976 1975	10.9 11.6	12.9	10.2	10.4	11.7	9.0	16.8	18.2	15.3	18.3	19.8	16.8
1978 1977 1976 1975 1970	10.9 11.6 15.1	12.9 17.0	10.2 13.1	10.4 13.8	11.7 15.5	9.0 11.9	16.8 21.4	18.2 23.9	15.3 18.9	18.3 22.8	19.8 25.4	16.8 20.1
1977 1976 1975	10.9 11.6	12.9	10.2	10.4	11.7	9.0	16.8	18.2	15.3	18.3	19.8	16.8

Table 27. Infant, neonatal, and postneonatal mortality rates by race and sex: United States, 1940, 1950, 1960, 1970, and 1975-99 - 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]

							All other					
		All races			White			Total			Black	
Year	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
					F	Postneonatal	mortality rate					
Race of mother ¹												
1999	2.3	2.6	2.0	1.9	2.2	1.6	4.0	4.3	3.6	4.8	5.2	4.4
1998	2.4	2.6	2.2	2.0	2.2	1.8	4.0	4.4	3.6	4.8	5.2	4.3
1997	2.5	2.8	2.1	2.0	2.3	1.8	4.0	4.5	3.6	4.8	5.3	4.2
1996	2.5	2.8	2.2	2.1	2.4	1.8	4.3	4.7	3.9	5.1	5.6	4.6
1995	2.7	3.0	2.4	2.2	2.5	1.9	4.5	4.8	4.1	5.3	5.7	4.8
1994	2.9	3.2	2.6	2.4	2.7	2.1	4.9	5.3	4.4	5.6	6.2	5.0
1993	3.1	3.5	2.6	2.5	2.9	2.1	5.1	5.7	4.4	5.8	6.6	5.1
1992	3.1	3.5	2.7	2.6	3.0	2.2	5.2	5.7	4.8	6.0	6.5	5.5
1991	3.4	3.8	2.9	2.8	3.2	2.3	5.6	6.0	5.1	6.3	6.8	5.8
1990	3.4	3.8	3.0	2.8	3.1	2.4	5.7	6.2	5.1	6.4	6.9	5.9
1989	3.6	4.0	3.1	2.9	3.4	2.5	6.0	6.5	5.5	6.7	7.2	6.2
1988	3.6	4.0	3.2	3.1	3.5	2.6	5.7	6.1	5.4	6.5	6.9	6.1
1987	3.6	4.1	3.2	3.1	3.5	2.6	5.8	6.3	5.2	6.4	7.1	5.8
1986	3.6	4.1	3.1	3.1	3.5	2.6	5.9	6.6	5.2	6.6	7.3	5.8
1985	3.7	4.2	3.2	3.2	3.6	2.7	5.8	6.3	5.3	6.4	7.0	5.8
1984	3.8	4.2	3.3	3.2	3.7	2.8	6.2	6.7	5.6	6.8	7.5	6.2
1983	3.9	4.3	3.4	3.3	3.7	2.9	6.4	7.0	5.8	7.0	7.8	6.3
1982	3.8	4.3	3.3	3.2	3.7	2.8	6.3	6.9	5.6	6.9	7.6	6.1
1981	3.9	4.3	3.5	3.4	3.8	2.9	6.3	6.8	5.8	6.8	7.4	6.3
1980	4.1	4.6	3.6	3.5	3.9	3.0	7.0	7.6	6.3	7.6	8.3	6.9
Race of child ²												
1980	4.1	4.6	3.6	3.5	4.0	3.0	6.6	7.2	6.0	7.3	7.9	6.6
1979	4.2	4.7	3.7	3.5	4.0	3.0	6.9	7.6	6.3	7.5	8.2	6.7
1978	4.3	4.7	3.9	3.6	4.0	3.2	7.0	7.6	6.5	7.6	8.2	7.0
1977	4.2	4.8	3.7	3.6	4.1	3.1	7.0	7.7	6.3	7.6	8.3	6.8
1976	4.3	4.8	3.8	3.6	4.1	3.2	7.2	7.8	6.5	7.6	8.4	6.9
1975	4.5	4.9	4.0	3.8	4.2	3.3	7.5	8.0	6.9	7.9	8.5	7.2
1970	4.9	5.4	4.4	4.0	4.4	3.5	9.5	10.3	8.6	9.9	10.8	8.9
1960	7.3	8.1	6.5	5.7	6.3	4.9	16.4	17.8	14.8	16.5	18.0	14.9
1950	8.7	9.4	8.0	7.4	8.0	6.7	16.9	18.1	15.7	16.1	17.2	15.0
1940	18.3	19.9	16.6	16.0	17.5	14.5	34.1	37.3	30.7	33.0	36.4	29.7

¹ Infant deaths based on race of child as stated on the death certificate; live births based on race of mother as stated on the birth certificate; see Technical notes. Infant deaths based on race of child as stated on the death certificate; live births based on race of parents as stated on the birth certificate; see Technical notes.

Table 28. Number of infant deaths and infant mortality rates for 130 selected causes by race: United States, 1999

[Rates are infant deaths (under 1 year) per 100,000 live births in specified group. Infant deaths based on race of decedent; live births based on race of mother]

		Number			Rate	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All races 1	White	Black	All races 1	White	Black
All causes	. 27,937	18,067	8,822	705.6	576.8	1,455.8
Certain infectious and parasitic diseases (A00-B99)		354 16	188 5	14.2 0.5	11.3	31.0
Certain intestinal infectious diseases (A00-A08)		-	-	*	*	*
Tuberculosis (A16-A19) Tetanus (A33,A35)		1	1	*	*	*
Diphtherià (A36)		-	-	*	*	*
Whooping cough (A37)	. 7 . 32	6 30	1 2	0.8	1.0	*
Septicemia (A40-A41)	. 283	164	107	7.1	5.2	17.7
Congenital syphilis (A50) Gonococcal infection (A54)		2	-	*	*	*
Viral diseases (A80-B34)	. 134	83	44	3.4	2.6	7.3
Acute poliomyelitis (A80) Varicella (chickenpox) (B01)		3	-	*	*	*
Measles (B05)	. 1	-	. 1	*	*	*
Human immunodeficiency virus (HIV) disease (B20-B24) Mumps (B26)	. 14	4	10	*	*	*
Other and unspecified viral diseases (A81-B00,B02-B04,B06-B19,B25,B27-B34)	. 116	76	33	2.9	2.4	5.4
Candidiasis (B37)		15	12 1	0.7	*	*
Pneumocystosis (B59)		3	i	*	*	*
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)	. 49	34	14	1.2	1.1	*
Neoplasms (C00-D48)	. 126	94	26	3.2	3.0	4.3
Malignant neoplasms (C00-C97)		53	11 2	1.7	1.7	*
Leukemia (C91-C95)		23	2	0.7	0.7	*
Other and unspecified malignant neoplasms (C00-C80,C88,C90,C96-C97)	. 39	30	7	1.0	1.0	*
(D00-D48)	. 58	41	15	1.5	1.3	*
Diseases of the blood and blood-forming organs and certain disorders involving the	0.4	F0	20	0.4	4.7	E 4
immune mechanism (D50-D89) Anemias (D50-D64)		53 6	33 3	2.4	1.7	5.4
Hemorrhagic conditions and other diseases of blood and blood-forming organs		00	0.4	4.0		4.0
(D65-D76) Certain disorders involving the immune mechanism (D80-D89)		36 11	24 6	1.6	1.1	4.0
Endocrine, nutritional and metabolic diseases (E00-E88)	. 261	179	69	6.6	5.7	11.4
Short stature, not elsewhere classified (E34.3)		18 5	6 4	0.6	*	*
Cystic fibrosis (E84)	. 12	12	-	*	*	*
Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)	. 73	40	29	1.8	1.3	4.8
(E00-E32,E34.0-E34.2,E34.4-E34.9,E65-E83,E85,E88)		104	30	3.6	3.3	5.0
Diseases of the nervous system (G00-G98)		311 68	108 42	11.1 2.9	9.9 2.2	17.8 6.9
Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)	. 42	35	5	1.1	1.1	*
Infantile cerebral palsy (G80)	. 13 . 39	6 22	7 12	1.0	0.7	*
Other diseases of nervous system						
(G04,G06-G11,G12.1-G12.9,G20-G72,G81-G92,G93.0,G93.2-G93.9,G95-G98)		180 3	42	5.8	5.7	6.9
Diseases of the circulatory system (I00-I99)	. 667	452	181	16.8	14.4	29.9
Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)		154 9	57 8	5.5 0.5	4.9	9.4
Cardiomyopathy (I42)	. 132	91	31	3.3	2.9	5.1
Cardiac arrest (I46)		16 70	10 28	0.7 2.6	2.2	4.6
All other diseases of circulatory system (I00-I25,I31,I34-I38,I44-I45,I47-I51,I70-I99)	. 167	112	47	4.2	3.6	7.8
Diseases of the respiratory system (J00-J98)	. 687	396 5	252 4	17.4	12.6	41.6
Acute upper respiratory infections (J00-J06)	. 10 . 320	184	115	8.1	5.9	19.0
Influenza (J10-J11)	. 13	7	4	* 7.8		*
Pneumonia (J12-J18)Acute bronchitis and acute bronchiolitis (J20-J21)	. 307 . 62	177 35	111 24	7.8 1.6	5.7 1.1	18.3 4.0
Bronchitis, chronic and unspecified (J40-J42)	. 20	11	7	0.5	*	*
Asthma (J45-J46) Pneumonitis due to solids and liquids (J69)		1 13	4 2	*	*	*
Other and unspecified diseases of respiratory system				6.4	, -	15.0
(J22,J30-J39,J43-J44,J47-J68,J70-J98)	500	147 300	96 179	6.4 12.6	4.7 9.6	15.8 29.5
Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50-K55)	. 242	134	98	6.1	4.3	16.2
Hernia of abdominal cavity and intestinal obstruction without hernia (K40-K46,K56)	. 192	50 116	13 68	1.7 4.8	1.6 3.7	11.2
Diseases of the genitourinary system (N00-N98)	. 192	118	67	4.8	3.8	11.1
Renal failure and other disorders of kidney (N17-N19,N25,N27)	. 163	99	58	4.1	3.2	9.6
Other and unspecified diseases of genitourinary system (N00-N15,N20-N23,N26,N28-N98)		19	9	0.7	*	*
(N00-N15,N20-N23,N26,N28-N98)		19 8,522	9 5,113	0.7 355.7	272.1	843.8
(N00-N15,N20-N23,N26,N28-N98)	. 14,084		-			843.8 159.1 4.5

Table 28. Number of infant deaths and infant mortality rates for 130 selected causes by race: United States, 1999 - Con.

[Rates are infant deaths (under 1 year) per 100,000 live births in specified group. Infant deaths based on race of decedent; live births based on race of mother]

		Number			Rate	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All races ¹	White	Black	All races ¹	White	Black
Newborn affected by other maternal conditions which may be unrelated to present						
pregnancy (P00.1-P00.9)	68	40	25	1.7	1.3	4.1
Newborn affected by maternal complications of pregnancy (P01)	1,399 384	859 236	496 131	35.3 9.7	27.4 7.5	81.9 21.6
Newborn affected by premature rupture of membranes (P01.1)	647	389	235	16.3	12.4	38.8
Newborn affected by multiple pregnancy (P01.5)	225	135	87	5.7	4.3	14.4
(P01.2-P01.4,P01.6-P01.9)	143	99	43	3.6	3.2	7.1
Newborn affected by complications of placenta, cord and membranes (P02)	1,025	633	358	25.9	20.2	59.1
Newborn affected by complications involving placenta (P02.0-P02.3) Newborn affected by complications involving cord (P02.4-P02.6)	530 64	350 43	160 19	13.4 1.6	11.2 1.4	26.4
Newborn affected by chorioamnionitis (P02.7)	430	239	179	10.9	7.6	29.5
Newborn affected by other and unspecified abnormalities of membranes	4	4		*	*	*
(P02.8-P02.9)	1 145	1 102	36	3.7	3.3	5.9
Newborn affected by noxious influences transmitted via placenta or breast milk (P04)	30	8	22	0.8	*	3.6
Disorders related to length of gestation and fetal malnutrition (P05-P08)	4,454 62	2,401 35	1,923 25	112.5 1.6	76.6 1.1	317.3 4.1
Disorders related to short gestation and low birth weight, not elsewhere classified	02	33	23	1.0	1.1	4.1
(P07)	4,392	2,366	1,898	110.9	75.5	313.2
Extremely low birth weight or extreme immaturity (P07.0,P07.2) Other low birth weight or preterm (P07.1,P07.3)	3,324 1,068	1,765 601	1,461 437	84.0 27.0	56.3 19.2	241.1 72.1
Disorders related to long gestation and high birth weight (P08)	´ -	-	-	*	*	*
Birth trauma (P10-P15)	20	11	5	0.5	*	*
Intrauterine hypoxia and birth asphyxia (P20-P21) Intrauterine hypoxia (P20)	613 114	429 73	157 35	15.5 2.9	13.7 2.3	25.9 5.8
Birth asphyxia (P21)	499	356	122	12.6	11.4	20.1
Respiratory distress of newborn (P22)	1,110	704	375	28.0	22.5	61.9
Other respiratory conditions originating in the perinatal period (P23-P28) Congenital pneumonia (P23)	1,718 82	1,151 55	528 25	43.4 2.1	36.7 1.8	87.1 4.1
Neonatal aspiration syndromes (P24)	84	60	21	2.1	1.9	3.5
Interstitial emphysema and related conditions originating in the perinatal period (P25)	230	167	58	5.8	5.3	9.6
Pulmonary hemorrhage originating in the perinatal period (P26)	269 336	178 197	87 130	6.8 8.5	5.7 6.3	14.4 21.5
Atelectasis (P28.0-P28.1)	647	451	182	16.3	14.4	30.0
All other respiratory conditions originating in the perinatal period (P28.2-P28.9)	70	43	25	1.8	1.4	4.1
Infections specific to the perinatal period (P35-P39)	871 691	537 417	308 253	22.0 17.5	17.1 13.3	50.8 41.8
Omphalitis of newborn with or without mild hemorrhage (P38)	-	-	-	*	*	*
All other infections specific to the perinatal period (P35,P37,P39)	180	120	55	4.5	3.8	9.1
Hemorrhagic and hematological disorders of newborn (P50-P61)	619 506	430 354	159 127	15.6 12.8	13.7 11.3	26.2 21.0
Hemorrhagic disease of newborn (P53)	1	-	1	12.0	*	*
Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice	10	44	-			*
(P55-P59)Hematological disorders (P60-P61)	16 96	11 65	5 26	2.4	2.1	4.3
Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)	8	5	3	*	*	*
Necrotizing enterocolitis of newborn (P77)	404	209	178	10.2	6.7	29.4
Hydrops fetalis not due to hemolytic disease (P83.2)	189	153	29	4.8	4.9	4.8
(P29,P70.3-P70.9,P71-P76,P78-P81,P83.0-P83.1,P83.3-P83.9,P90-P96)	1,340	808	484	33.8	25.8	79.9
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) Anencephaly and similar malformations (Q00)	5,473 311	4,211 253	1,025 39	138.2 7.9	134.4 8.1	169.2 6.4
Congenital hydrocephalus (Q03)	93	255 66	23	2.3	2.1	3.8
Spina bifida (Q05)	22	18	3	0.6	*	*
Other congenital malformations of nervous system (Q01-Q02,Q04,Q06-Q07)	264 1,598	195 1,252	55 290	6.7 40.4	6.2 40.0	9.1 47.9
Other congenital malformations of circulatory system (Q25-Q28)	220	154	290 57	5.6	40.0	9.4
Congenital malformations of respiratory system (Q30-Q34)	564	420	121	14.2	13.4	20.0
Congenital malformations of digestive system (Q35-Q45)	93 366	66	22 65	2.3 9.2	2.1 8.9	3.6
Congenital malformations and deformations of musculoskeletal system, limbs and	300	278	03	9.2	0.9	10.7
integument (Q65-Q85)	486	374	92	12.3	11.9	15.2
Down's syndrome (Q90)	94 439	79 351	11 69	2.4 11.1	2.5 11.2	11.4
Edward's syndrome (Q91.0-Q91.3)	250	195	51	6.3	6.2	8.4
Other congenital malformations and deformations (Q10-Q18,Q86-Q89)	507	379	101	12.8	12.1	16.7
Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)	166	131	26	4.2	4.2	4.3
(R00-R99)	3,538	2,227	1,167	89.4	71.1	192.6
Sudden infant death syndrome (R95)	2,648	1,711	839	66.9	54.6	138.5
Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53,R55-R94,R96-R99)	890	516	328	22.5	16.5	54.1
All other diseases (Residual)	23	14	326 8	0.6	*	J 4 . I *
External causes of mortality (V01-Y89)	1,285	833	406	32.5	26.6	67.0
Accidents (unintentional injuries) (V01-X59)	845 189	562 137	252 44	21.3 4.8	17.9 4.4	41.6 7.3
Manageria decidente (VOT-VOO)	109	137	44	4.0	4.4	1.3
Motor venicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2,						
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,						
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)	184	133	43	4.6	4.2	7.1
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)	184	133	43	4.6	4.2	7.1
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)	184 5	133	43	4.6	4.2	7.1

Table 28. Number of infant deaths and infant mortality rates for 130 selected causes by race: United States, 1999 - Con.

[Rates are infant deaths (under 1 year) per 100,000 live births in specified group. Infant deaths based on race of decedent; live births based on race of mother]

		Number			Rate	
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	All races 1	White	Black	All races 1	White	Black
Falls (W00-W19)	12	8	2	*	*	*
Accidental discharge of firearms (W32-W34)	-	-	-	*	*	*
Accidental drowning and submersion (W65-W74)	68	46	21	1.7	1.5	3.5
Accidental suffocation and strangulation in bed (W75)	255	165	80	6.4	5.3	13.2
Other accidental suffocation and strangulation (W76-W77,W81-W84)	154	93	55	3.9	3.0	9.1
respiratory tract (W78-W80)	63	43	19	1.6	1.4	*
Accidents caused by exposure to smoke, fire and flames (X00-X09)	41	26	15	1.0	0.8	*
Accidental poisoning and exposure to noxious substances (X40-X49)	12	10	1	*	*	*
Other and unspecified accidents (W20-W31.W35-W64.W85-W99.X10-X39.X50-X59)	51	34	15	1.3	1.1	*
Assault (homicide) (X85-Y09)	331	200	118	8.4	6.4	19.5
Assault (homicide) by hanging, strangulation and suffocation (X91)	34	22	11	0.9	0.7	*
Assault (homicide) by discharge of firearms (X93-X95)	8	4	2	*	*	*
Neglect, abandonment and other maltreatment syndromes (Y06-Y07) Assault (homicide) by other and unspecified means	125	76	45	3.2	2.4	7.4
(X85-X90,X92,X96-X99,Y00-Y05,Y08-Y09)	164	98	60	4.1	3.1	9.9
Complications of medical and surgical care (Ý40-Y84)	54	35	18	1.4	1.1	*
Other external causes (X60-X84, Y10-Y36)	55	36	18	1.4	1.1	*

NOTE: Complete confirmation of deaths from selected causes of death, considered to be of public health concern, were not provided by the following States-California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia; see Technical notes.

Quantity zero.
 * Figure does not meet standards of reliability or precision; see Technical notes.
 1 Includes races other than white and black.

Table 29. Number of infant and neonatal deaths and mortality rates, by race for the United States, each division, each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, and by sex for the United States, 1999

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

			Infant o	leaths					Neonata	I deaths		
	All ra	ces ¹	Wh	ite	Bla	ck	All ra	ces ¹	Wh	ite	Bla	ck
Sex and area	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
United States	27,937	7.1	18,067	5.8	8,822	14.6	18,728	4.7	12,164	3.9	5,920	9.8
Male	15,646	7.7	10,197	6.4	4,897	15.9	10,355	5.1	6,734	4.2	3,297	10.7
Female	12,291	6.4	7,870	5.2	3,925	13.2	8,373	4.3	5,430	3.6	2,623	8.8
New England	939	5.5	766	5.2	153	10.3	723	4.2	590	4.0	123	8.3
Maine New Hampshire	66 82	4.8 5.8	62 78	4.7 5.7	3 1	*	51 60	3.7 4.3	47 59	3.5 4.3	3	*
Vermont	38	5.8	38	5.7	-	*	22	3.4	22	3.4	_	*
Massachusetts	417	5.2	329	4.8	80	9.8	332	4.1	261	3.8	66	8.1
Rhode Island	71	5.7	54	5.0	12	*	53	4.3	42	3.9	9	*
Connecticut	265	6.1	205	5.7	57	10.6	205	4.7	159	4.4	45	8.4
Middle Atlantic New York	3,451 1,627	6.7 6.4	2,152 1,009	5.5 5.5	1,210 568	12.8 10.6	2,440 1,142	4.7 4.5	1,545 720	4.0 3.9	832 386	8.8 7.2
New Jersey	766	6.7	441	5.2	299	14.1	555	4.9	329	3.9	209	9.9
Pennsylvania	1,058	7.3	702	5.8	343	16.8	743	5.1	496	4.1	237	11.6
East North Central	5,016	8.1	3,220	6.3	1,710	17.8	3,408	5.5	2,197	4.3	1,155	12.0
Ohio	1,244	8.2	846	6.6	388	17.6	845	5.5	581	4.5	261	11.8
IndianaIllinois	686 1,550	8.0 8.5	525 877	7.0 6.3	158 630	17.0 18.4	452 1,083	5.3 5.9	349 623	4.6 4.4	100 430	10.8 12.6
Michigan	1,077	8.1	630	6.0	430	17.9	734	5.5	424	4.4	299	12.0
Wisconsin	459	6.7	342	5.8	104	16.0	294	4.3	220	3.7	65	10.0
West North Central	1,800	6.9	1,333	5.9	367	17.7	1,163	4.5	869	3.8	239	11.5
Minnesota	408	6.2	310	5.4	62	15.4	261	4.0	203	3.5	39	9.7
lowa	215	5.7	189	5.3	24	20.6	128	3.4	113	3.2	14	*
Missouri	585	7.8	366	5.8	213	18.9	385	5.1	238	3.8	145	12.9
North Dakota South Dakota	52 94	6.8 8.9	39 67	5.8 7.7	3	*	33 57	4.3 5.4	26 44	3.9 5.1	3	*
Nebraska	163	6.8	128	5.9	24	18.9	108	4.5	84	3.9	15	*
Kansas	283	7.3	234	6.8	41	14.4	191	4.9	161	4.7	23	8.1
South Atlantic	5,733	8.2	2,855	5.9	2,755	14.5	3,968	5.7	1,946	4.0	1,936	10.2
Delaware	79	7.4	30	3.9	48	18.0	55	5.2	20	2.6	35	13.1
Maryland	601	8.4	226	5.1	355 98	14.6 19.0	420 88	5.8 11.7	153 8	3.4	253 77	10.4 14.9
District of Columbia Virginia	113 693	15.0 7.3	12 387	5.6	288	13.0	483	5.1	255	3.7	213	9.6
West Virginia	154	7.4	145	7.3	9	*	97	4.7	92	4.6	5	*
North Carolina	1,038	9.1	560	6.9	441	15.5	767	6.7	413	5.1	326	11.5
South Carolina	563	10.2	235	6.7	322	16.9	392	7.1	153	4.4	235	12.3
Georgia	1,040	8.2	435	5.4	583	13.8	699	5.5	286	3.5	400	9.5
Florida East South Central	1,452 2,049	7.4 8.6	825 1,130	5.6 6.5	611 905	13.6 14.9	967 1,298	4.9 5.5	566 707	3.9 4.1	392 579	8.7 9.5
Kentucky	411	7.6	347	7.1	63	12.7	261	4.8	220	4.5	40	8.0
Tennessee	599	7.7	342	5.7	251	15.2	389	5.0	219	3.6	164	9.9
Alabama	606	9.8	288	6.9	316	16.0	383	6.2	176	4.2	205	10.4
Mississippi	433	10.1	153	6.8	275	14.2	265	6.2	92	4.1	170	8.8
West South Central	3,494	7.0	2,364	5.9	1,052	13.2	2,170	4.3	1,490	3.7	643	8.1
Arkansas Louisiana	292 621	8.0 9.2	198 228	7.0 5.9	92 386	12.0 14.2	168 394	4.6 5.9	120 143	4.2 3.7	46 248	6.0 9.1
Oklahoma	417	8.5	308	8.0	72	15.6	243	5.0	191	4.9	38	8.2
Texas	2,164	6.2	1,630	5.5	502	12.5	1,365	3.9	1,036	3.5	311	7.8
Mountain	1,817	6.4	1,535	6.0	145	16.5	1,149	4.1	984	3.9	89	10.1
Montana	72	6.7	55	5.9	-	*	32	3.0	23	2.5	-	*
Idaho	134	6.7	127	6.6	3	*	92	4.6	86	4.5	2	*
Wyoming Colorado	42 416	6.9 6.7	39 359	6.8 6.3	1 47	16.2	25 268	4.1 4.3	22 232	3.8 4.1	1 31	10.7
New Mexico	188	6.9	148	6.5	11	10.2	107	3.9	232 87	3.8	9	*
Arizona	548	6.8	442	6.2	52	19.1	363	4.5	300	4.2	31	11.4
Utah	224	4.8	212	4.8	2	*	148	3.2	141	3.2	-	*
Nevada	193	6.6	153	6.1	29	13.2	114	3.9	93	3.7	15	*
Pacific	3,638	5.4	2,712	5.0	525	13.0	2,409	3.6	1,836	3.4	324	8.0
Washington Oregon	400 261	5.0 5.8	319 237	4.7 5.7	50 6	15.0	256 191	3.2 4.2	206 174	3.0 4.2	31 4	9.3
California	2,800	5.4	2,106	5.7	457	12.9	1,852	3.6	1,425	3.4	281	7.9
Alaska	57	5.7	31	4.7	4	*	26	2.6	1,425	*	3	*
Hawaii	120	7.0	19	*	8	*	84	4.9	16	*	5	*
Puerto RicoVirgin Islands	630 18	10.6	614 3	11.3	15 15	*	438 15	7.4	430 1	7.9	8 14	*
Guam	18 35	8.7	1	*	- 15	*	21	5.2	-	*	- 14	*
American Samoa	20	11.5	-	*	-	*	16	*	-	*	-	*
Northern Marianas	8	*	1	*	_	*	7	*	1	*	_	*

 ^{*} Figure does not meet standards of reliability or precision; see Technical notes.
 Quantity zero.
 1 Includes races other than white and black.

Table 30. Number of maternal deaths and maternal mortality rates for selected causes, by race: United States, 1999

[Maternal causes are those assigned to categories A34,O00-O95,O98-O99 of the Tenth Revision, International Classification of Diseases, 1992. Rates per 100,000 live births in specified group; see Technical notes]

		Nur	nber		Rate					
Cause of death (Based on the Tenth Revision, International		A.II		All other			All o	other		
Classification of Diseases, 1992)	All races	White	Total	Black	- All races	White	Total	Black		
Maternal causes (A34,O00-O95,O98-O99)	391	214	177	154	9.9	6.8	21.4	25.4		
Pregnancy with abortive outcome (O00-O07)	31	15	16	15	0.8	*	*	*		
Ectopic pregnancy (O00)	19	8	11	10	*	*	*	*		
Spontaneous abortion (O03)	4	2	2	2	*	*	*	*		
Medical abortion (O04)	1	-	1	1	*	*	*	*		
Other abortion (O05)		_			*	*	*	*		
Other and unspecified pregnancy with abortive outcome										
(O01-O02,O06-O07)	7	5	2	2	*	*	*	*		
Other direct obstetric causes (A34,O10-O92)	308	168	140	120	7.8	5.4	16.9	19.8		
Eclampsia and pre-eclampsia (O11,O13-O16)	90	50	40	35	2.3	1.6	4.8	5.8		
Hemorrhage of pregnancy and childbirth and placenta previa	30	30	40	55	2.0	1.0	4.0	5.0		
(O20,O44-O46,O67,O72)	45	27	18	13	1.1	0.9	*	*		
Complications predominantly related to the puerperium	40	21	10	13	1.1	0.5				
(A34,O85-O92)	84	47	37	32	2.1	1.5	4.5	5.3		
Obstetrical tetanus (A34)	-	47	37	32	۷.۱ *	1.5	4.5	3.3		
	- 53	32	- 21	- 10	4.0	4.0	0.5			
Obstetric embolism (O88)	53	32	21	16	1.3	1.0	2.5			
Other complications predominantly related to the puerperium	0.4	4.5	40	4.0	0.0	*	*			
(085-087,089-092)	31	15	16	16	8.0	•	•	•		
All other direct obstetric causes				4.0						
(010,012,021-043,047-066,068-071,073-075)	89	44	45	40	2.2	1.4	5.4	6.6		
Obstetric death of unspecifed cause (O95)	5	3	2	2			*			
Indirect obstetric causes (O98-O99)	47	28	19	17	1.2	0.9	*	*		
Maternal access more than 40 days offer delivery or torrestant of										
Maternal causes more than 42 days after delivery or termination of	45	0	0	0	*					
pregnancy (O96-O97)	15	6	9	8		-	-	-		
Death from any obstetric cause occurring more than 42 days but less	-			0						
than one year after delivery (O96)	5	3	2	2		*				
Death from sequelae of direct obstetric causes (O97)	10	3	7	6	*	*	*	*		

 $^{^{\}star}$ Figure does not meet standards of reliability or precision; see Technical notes. - Quantity zero.

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. The U.S. Standard Certificate of Death—which is used as a model by the States—was last revised in 1989; for additional details see the 1989 revision of the U.S. standard certificates and reports (21) and Technical Appendix of *Vital Statistics of the United States, 1989*, Volume II, Mortality, part A (22). Data for Puerto Rico, the Virgin Islands, Guam, American Samoa, and the 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 the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP) and from copies of the original certificates received by NCHS from the State registration offices. In 1999 all the States and the District of Columbia participated in this program and submitted part or all of the mortality data for 1999 in electronic data files to NCHS. All States provided precoded medical (cause-of-death) data to NCHS except Arizona, Illinois, Kentucky, Missouri, New Jersey, Ohio, and West Virginia, New York City, and the District of Columbia. For 1999 all States submitted precoded demographic data for all deaths.

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 of Puerto Rico, Virgin Islands, American Samoa, and Northern Marianas, respectively. For Guam, however, mortality statistics exclude deaths that occurred to a resident of any place other than Guam or the United States.

Cause-of-death classification

The mortality statistics presented in this report were compiled in accordance with the 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 Statistical Classification of Diseases and Related Health Problems* (ICD). The 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) (6); during the period 1979–98, causes were coded and classified according to the Ninth Revision (ICD–9) (8). For earlier years causes of death were classified according to the revisions then in use—1968–78, Eighth Revision, adapted for use in the United States; 1958–67, Seventh Revision; and 1949–57, Sixth Revision.

Changes in classification of causes of death due to these revisions may result in discontinuities in cause-of-death trends. Discontinuities between the Ninth and Tenth Revisions of the ICD for selected causes of death are measured using comparability ratios from a comparability study described in the section *Comparability between ICD–9 and ICD–10 for mortality*. Comparability ratios between the Eighth and Ninth

Revisions, between the Seventh and Eighth Revisions, and between the Sixth and Seventh Revisions may be found in other NCHS reports (23–25).

The 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* (26–28). It includes rules for selecting the underlying cause of death for tabulation purposes, definitions, tabulation lists, and regulations on the use of the Classification.

Before data for 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) (29), multiple cause codes serve as inputs to the computer software that employs 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 has developed two computer systems as inputs to ACME. Beginning with 1990 data, the Mortality Medical Indexing, Classification, and Retrieval system (MICAR) (30,31), was introduced to automate coding multiple causes of death. In addition, MICAR provides more detailed information on the conditions reported on death certificates than is available through the International Classification of Diseases (ICD) code structure. Beginning with data year 1993, SuperMICAR, an enhancement of the MICAR system, was introduced. SuperMICAR allows 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.

For 1999 approximately 39 percent of the Nation's death records were multiple-cause coded using SuperMICAR, and 61 percent using MICAR only. This represents data from 27 States that were coded by SuperMICAR and data from 23 States, the District of Columbia, and New York City that were coded by MICAR.

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 morbid events leading directly to death, or the circumstances of the accident or violence which produced the fatal injury" (6). It is selected from the conditions entered by the physician in the cause-of-death section of the death certificate. When more than one cause or condition is entered by the physician, the underlying cause is determined by the sequence of conditions on the certificate, provisions of the 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 (32–34).

Tabulation lists and cause-of-death ranking

Tabulation lists for ICD-10 were developed to maximize continuity with ICD-9. This continuity is especially useful in trend analysis and in identifying causes of death that are of public health and

medical importance. The lists are published in the NCHS Instruction Manual, Part 9, ICD-10 Cause-of-Death Lists for Tabulating Mortality Statistics, Effective 1999 (35). For this report two tabulation lists are used, namely, the List of 113 Selected Causes of Death used for deaths of all ages, and the List of 130 Selected Causes of Infant Death used for infants. These lists are also used to rank leading causes of death for the two population groups. For the List of 113 Selected Causes of Death, the group titles Major cardiovascular diseases (ICD-10 codes I00-I78) and Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (ICD-10 codes 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 (ICD-10 codes A16-A19)), its component parts are not ranked (in this case, Respiratory tuberculosis (ICD-10 code A16) and Other tuberculosis (ICD-10 codes A17-A19)). For the List of 130 Selected Causes of Infant Death, the same ranking procedures are used, except that the category Major cardiovascular diseases is not in the list.

Cause-of-death titles in ICD-10 differ in some cases from those in ICD-9. A comparison of cause-of-death titles for the 15 leading causes of death between ICD-9 and ICD-10 is shown in table I. For 7 of the 15 leading causes of death the titles between ICD-9 and ICD-10 are the same.

The 10 leading causes of infant death were affected by the introduction of ICD-10 as well. A comparison of cause-of-death titles for the 10 leading causes of infant death between ICD-9 and ICD-10 are shown in table II. For 4 of the 10 leading causes of infant death, the titles between ICD-9 and ICD-10 are the same.

The change in the tabulation lists and coding rules for selecting the underlying cause of death between ICD–9 and ICD–10 has implications for ranking leading causes of death (9). The top five causes of death and causes of infant death did not change in rank; however, changes in rank for causes ranked sixth and lower resulted from using ICD–10 instead of ICD–9.

Race and Hispanic origin

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

Mortality data for the Hispanic-origin population are based on deaths to residents of all 50 States and the District of Columbia. Data year 1997 was the first year that mortality data for the Hispanic population were available for the entire United States.

Quality of race and Hispanic origin data—Death rates for Hispanic, American Indian, and API persons should be interpreted with caution because of inconsistencies in reporting Hispanic origin or race on the death certificate as compared with race on censuses, surveys, and birth certificates. Studies have shown underreporting on death certificates of American Indians, API, and Hispanic decedents; and undercounts of these groups in the censuses (14,36).

A number of studies have been conducted on the reliability of race reported on the death certificate by comparing race on the death certificate with that reported on another data collection instrument, such as the census or a survey. Differences may arise because of differences in who provides race information on the compared records. Race information on the death certificate is reported by the 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 on the Current Population Survey (CPS) is obtained while the individual is alive and is self-reported or reported by another member of the household familiar with the individual 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 assure unbiased death rates by race.

Studies (36,37) show that a person self-reported as American Indian or Asian 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 (5,14,38). Estimates of the approximate effect of the combined bias due to race misclassification on death certificates and underenumeration on the 1990 census are as follows: white, -1.0 percent; black, -5.0; American Indian, +20.6; Asian or Pacific Islander, +10.7 (14).

The National Longitudinal Mortality Study (NLMS) examined the reliability of Hispanic origin reported on 43,520 death certificates with that reported on a total of 12 Current Population Surveys conducted by the U.S. Bureau of the Census for the years 1979–85 (14). In this study, agreement—on a record-by-record basis— was 89.7 percent for any report of Hispanic origin. The ratio of deaths for CPS divided by deaths for death certificate was 1.07 indicating net underreporting of Hispanic origin on death certificates by 7 percent as compared with self-reports on the surveys. Death rates for the Hispanic-origin population are also affected by undercoverage of this population group in the census and resultant population estimates; the estimated net correction, taking into account both sources of bias, is 1.6 percent (14,38).

Other races and race not stated—Beginning in 1992 all records coded as "Other races" (0.02 percent of the total deaths in 1999) were assigned to the specified race of the previous record. Records for which race was unknown, not stated, or not classifiable (0.10 percent) were assigned the racial designation of the previous record.

Infant and maternal mortality rates—For 1989–99, as in previous years, infant and maternal 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. This change affects infant and maternal mortality rates because live births are the denominators of these rates (39,40). 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 results in more white births and fewer black births and births of other races. Consequently, infant and maternal mortality rates under the new tabulating procedure tend to be about 2 percent lower for white infants and about 5 percent higher for black infants than when they are computed by the previous method of tabulating live births by race of

Table I. List of ICD-10 leading causes of death for 1999 and comparable ICD-9 causes of death

ICD-10	ICD-9
Diseases of heart (I00–I09,I11,I13,I20–I51)	Diseases of heart (390–398,402,404,410–429)
Malignant neoplasms (C00-C97).	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140–208)
Cerebrovascular diseases (I60–I69)	Cerebrovascular diseases (430–434,436–438) ¹
Chronic lower respiratory diseases (J40–J47)	Chronic obstructive pulmonary diseases and allied conditions (490-494,496) ¹
Accidents (unintentional injuries) (V01–X59,Y85–Y86)	Accidents (E800–E869,E880–E929) ¹
Diabetes mellitus (E10–E14)	Diabetes mellitus (250)
Influenza and pneumonia (J10-J18)	Pneumonia and influenza (480-487)
Alzheimer's disease (G30)	Alzheimer's disease (331.0)
Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	Nephritis, nephrotic syndrome and nephrosis (580–589)
Septicemia (A40–A41)	Septicemia (038)
Intentional self-harm (suicide) (X60–X84,Y87.0)	Suicide (E950–E959)
Chronic liver disease and cirrhosis (K70,K73–K74)	Chronic liver disease and cirrhosis (571)
Essential (primary) hypertension and hypertensive renal disease (I10,I12)	Hypertension with or without renal disease (401,403)
Assault (homicide) (X85–Y09,Y87.1)	Homicide (E960–E969) ¹
Aortic aneurysm and dissection (I71)	Aortic aneurysm (441) ²

¹ICD-9 codes do not match those of the ICD-9 List of 72 Selected Causes of Death; see Technical notes.

Table II. List of ICD-10 leading causes of infant death for 1999 and comparable ICD-9 causes of infant death

ICD-10	ICD-9
Congenital malformations, deformations, and chromosomal abnormalities (Q00-Q99)	Congenital anomalies (740–759)
classified (P07) Sudden infant death syndrome (R95) Newborn affected by maternal complications of pregnancy (P01) Respiratory distress of newborn (P22) Newborn affected by complications of placenta, cord and membranes (P02) Accidents (unintentional injuries) (V01–X59) Bacterial sepsis of newborn (P36) Diseases of the circulatory system (I00–I99) Atelectasis (P28.0–P28.1)	Disorders relating to short gestation and unspecified low birthweight (765) Sudden infant death syndrome (798.0) Newborn affected by maternal complications of pregnancy (761) Respiratory distress syndrome (769) Newborn affected by complications of placenta, cord and membranes (762) Accidents (E800–E869,E880–E929) ¹ Other infection specific to the perinatal period (771.8) ² Diseases of the circulatory system (390–434,436–459) ² Primary, other, and unspecified atelectasis (770.4–770.5) ²

¹ICD-9 codes do not match those of the ICD-9 List of 61 Selected Causes of Infant Death; see Technical notes.

parents. Rates for most other minority races also are higher when computed by race of mother (22,40).

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. The percent of infant deaths of unknown origin was 1.4 and the percent of live births to mothers of unknown origin was 1.2 for the United States for 1999.

Small numbers of infant deaths for specific Hispanic-origin groups result in infant mortality rates subject to relatively large random variation (see "Random variation"). Infant mortality rates by Hispanic origin are less subject to reporting error when based on linked files of infant deaths and live births (20).

Infant mortality rates calculated from the general mortality file for specified race and/or Hispanic origin are in error 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 (20). The linked file

computes infant mortality rates using the race and/or Hispanic origin of the mother from the birth certificate in both the numerator and denominator of the rate. In addition, mother's race and/or Hispanic origin from the birth certificate is considered to be more accurately reported than infant's race and/or Hispanic origin from the death certificate because, on the birth certificate, race is generally reported by the mother at the time of delivery whereas, on the death certificate, infant's race and/or Hispanic origin is reported by an informant, usually the mother but sometimes by the funeral director. Estimates of reporting errors have been made by comparing rates based on the linked files with those in which the race of infant death is based on information from the death certificate (14,22).

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. Beginning with final data reported for 1997, the life table methodology

²Not a rankable cause in ICD-9; see Technical notes.

²Not a rankable cause in ICD-9; see Technical notes.

was changed from previous annual reports. Previously, U.S. life tables were abridged and constructed by reference to a standard table (41). In addition, the age range for these life tables was limited to 5-year age groups ending with the age group 85 years and over.

Beginning with 1997 mortality data, a revised life table methodology was used to construct complete life tables by single years of age that extend to age 100 (42) using a methodology similar to that of the decennial life tables (43). The advantages of the new over the previous methodology are its comparability with decennial life table methodology, greater accuracy, and greater age detail. A comparison of the two methods shows small differences in resulting values for life expectancy (42). Although the new method produces complete life tables, that is, life tables by single years of age, life table data shown in this report are summarized in 5-year age groupings. To calculate the probability of dying at each age, the revised methodology uses vital statistics death rates for ages under 85 years and mortality data from the Medicare program for ages over 85 years. Medicare data were used to model the probability of dying at ages 85 and over because the data are shown to be significantly more reliable than vital statistics data at the oldest ages (44).

Causes of death contributing to changes in life expectancy

Causes of death contributing to changes in life expectancy were estimated using a life table partitioning technique. The method partitions changes into component additive parts. This method identifies the causes of death having the greatest influence, positive or negative, on changes in life expectancy (15,45).

Comparability between ICD-9 and ICD-10 for mortality

One of the efforts to maintain the tradition of progress in the classification of diseases has been the practice, begun in 1900, to revise about every 10–20 years what is now the International Classification of Diseases (ICD). Each of these revisions has produced some break in the comparability of cause-of-death statistics. ICD–10 has many changes from ICD–9, including considerably greater detail, shifts of inclusion terms and titles from one category, section, or chapter to another; regroupings of diseases; new titles and sections; and modifications in coding rules (6). As a result, serious breaks occur in comparability for a number of causes of death. Measures of this discontinuity are essential to the interpretation of mortality trends. Ratios of comparability between ICD–9 and ICD–10 have been computed for this purpose.

The method followed by the United States for constructing comparability ratios for mortality data is that recommended by the International Conference for the Sixth Revision of the International List of Diseases and Causes of Death, which convened in France in 1948. The Conference recommended that deaths for a country as a whole in 1949 or in 1950 be coded according to the Detailed List of Causes of Death of the Fifth Revision, and that dual tabulations of these data be published in such a way as to indicate the changes resulting from the application of the new revision. The dual coding method to measure discontinuities in mortality data resulting from the introduction of a new revision was used in this study between ICD–9 and ICD–10. This makes the fifth time since the recommendation of the International Conference for the Sixth Revision that the United States used this method (7).

Studies of the comparability between revisions of the ICD have been carried out and published at least since the Fifth Revision. Comparability studies—also called bridge-coding studies—involve dual classification of a single year of mortality data, that is, classifying the underlying cause of death on mortality records by the new revision and the previous revision. The key element of a comparability study is the comparability ratio, which is derived from the dual classification. It is calculated by dividing the number of deaths for a selected cause of death classified by the new revision by the number of deaths classified to the most nearly comparable cause of death by the previous revision. The resulting ratio represents the net effect of the new revision on statistics for this cause and can be used as a factor to adjust mortality statistics for causes of death classified by a previous revision to be comparable to those for the same cause classified by the new revision.

A comparability ratio of 1.00 indicates that the same number of deaths was assigned to a particular cause or combination of causes whether the Ninth or Tenth Revision was used. A ratio showing perfect correspondence (1.00) between the two revisions does not necessarily indicate that the cause was unaffected by changes in classification and coding procedures but merely that there was no net change.

A ratio of less than 1.00 results from a decrease in assignments of death to a cause in ICD-10 compared with ICD-9. A ratio of more than 1.00 results from an increase in assignments of deaths to a cause in ICD-10 compared with the comparable ICD-9 cause.

One of the major objectives of the comparability study was to furnish ratios that measure the degree of discontinuity between data tabulated by the cause lists published under ICD–10 and data tabulated by the most nearly comparable cause lists published under ICD–9.

Ratios are presented for the cause lists presented in this report. The list of selected causes for which final data are published has been expanded from the 72 causes plus HIV infection and Alzheimer's disease published under ICD-9, to 113 causes under ICD-10. The list of selected causes of infant death was expanded from 61 plus HIV disease to 130 causes. The lists are as follows:

ICD-10 ICD-9

1. List of 113 Selected Causes of Death

1. List of 72 Selected Causes of Death, HIV infection and Alzheimer's disease

2. List of 130 Selected Causes of Infant Death

2. List of 61 Selected Causes of Infant Death and HIV infection

The data used in the ICD-10 Comparability Study are cause-of-death information from a large sample of death certificates for deaths occurring in 1996 filed in the 50 States and the District of Columbia. Table III shows comparability ratios and their standard errors for the List of 113 Selected Causes of Death. Table IV shows the same information for the List of 130 Selected Causes of Infant Death. The cause-of-death information in the sample is based on death records in which the underlying cause of death is classified by ICD-9 and ICD-10. The sample comprises 1,852,651 (80 percent) out of the total 2,314,690 resident deaths that occurred in the United States during 1996. The sample is treated as if it were random. As a result, standard errors associated with comparability ratios are based on sampling and stochastic (random) variation (9). Most of the records in the study were processed using the NCHS automated systems for

Table III. Comparable category codes and estimated comparability ratios for 113 selected causes of death, injury by firearms, drug-induced deaths, and alcohol-induced deaths according to the Ninth and Tenth Revisions, *International Classification of Diseases*

Cause of death (Based on the Tenth Revision,	Category codes according to the	Category codes according to the		of deaths according to	Estimated comparability	Standard	Relative	95-po confider	ercent nce limit
International Classification of Diseases, 1992)	Tenth Revision (ICD-10)	Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	ratio	error	error	Lower	Upper
Salmonella infections	A01-A02	002–003	30	37	0.8108	0.0644	7.9	0.6846	0.9370
Shigellosis and amebiasis	A03,A06	004,006	*	*	*	*	*	*	
Certain other intestinal infections	A04,A07-A09	007-009	*	*	*	*	*	*	
Tuberculosis	A16-A19	010-018	653	764	0.8547	0.0172	2.0	0.8209	0.8888
Respiratory tuberculosis	A16	010-012	518	572	0.9056	0.0201	2.2	0.8662	0.9450
Other tuberculosis		013-018	135	192	0.7031	0.0407	5.8	0.6233	0.7830
Whooping cough	A37	033	*	*	*	*	*	*	
Scarlet fever and erysipelas		034.1–035	*	*	*	*	*	*	
Meningococcal infection		036	221	222	0.9955	0.0149	1.5	0.9663	1.0247
Septicemia	Δ40-Δ41	038	21,258	17,791	1.1949	0.0042	0.3	1.1867	
Syphilis		090-097	21	33	0.6364	0.1184	18.6	0.4043	
Acute poliomyelitis	A90	045	<u>د</u> ا *	*	v.0504 *	0.110 4 *	*	*	0.000
Arthropod-borne viral encephalitis	A00 A04 A05 O	062-064	*	*	*	*	*	*	
			*	*	*	*	*	*	
Measles		055	4 400	1.040	0.0040	0.0400	4.4	0.0100	0.057
Viral hepatitis		070	1,123	1,346	0.8343	0.0120	1.4	0.8109	
Human immunodeficiency virus (HIV) disease	B20-B24	*042–*044	12,765	11,150	1.1448	0.0045	0.4	1.1360	1.1536
Malaria	B50-B54	084	*	*	*	*	*	*	
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	001,005,020-032,037,039-041,046-054 056-061,065-066,071-083,085-088,	,						
	A86-B04,B06-B09,B25-B49,B55-B99	098-134,136-139,771.3	2,865	2,607	1.0990	0.0154	1.4	1.0688	1.129
Malignant neoplasms	C00-C97	140–208	464,688	461,544	1.0068	0.0002	0.0	1.0064	1.0072
Malignant neoplasms of lip, oral cavity and pharynx		140–149	5,927	6,172	0.9603	0.0040	0.4	0.9525	0.968
Malignant neoplasm of esophagus		150	9,596	9,630	0.9965	0.0020	0.2	0.9926	1.0003
Malignant neoplasm of stomach		151	11,480	11,408	1.0063	0.0019	0.2	1.0025	
Malignant neoplasms of colon, rectum and anus		153–154	48.583	48.619	0.9993	0.0009	0.1	0.9975	
Malignant neoplasms of liver and intrahepatic			,	,			• • • •		
bile ducts	C22	155	9,732	10,102	0.9634	0.0023	0.2	0.9588	0.9679
Malignant neoplasm of pancreas		157	24,313	24,361	0.9980	0.0020	0.1	0.9963	
Malignant neoplasm of larynx		161	3,209	3,194	1.0047	0.0053	0.1	0.9943	
Malignant neoplasms of trachea, bronchus and lung		162	131,750	133,936	0.9837	0.0055	0.5	0.9827	0.9846
Malignant melanoma of skin		172	5.941	6.139	0.9637	0.0003	0.1	0.9627	
		174–175	- , -	-,					
Malignant neoplasm of breast			38,102	37,891	1.0056	0.0010	0.1	1.0036	
Malignant neoplasm of cervix uteri	C53	180	3,753	3,802	0.9871	0.0034	0.3	0.9805	0.9938
Malignant neoplasms of corpus uteri and uterus,		.==							
part unspecified		179,182	5,318	5,183	1.0260	0.0040	0.4	1.0182	
Malignant neoplasm of ovary	C56	183.0	11,292	11,344	0.9954	0.0016	0.2	0.9923	
Malignant neoplasm of prostate		185	30,672	30,267	1.0134	0.0015	0.1	1.0105	
Malignant neoplasms of kidney and renal pelvis		189.0,189.1	9,521	9,521	1.0000	0.0022	0.2	0.9957	
Malignant neoplasm of bladder	C67	188	9,563	9,594	0.9968	0.0026	0.3	0.9916	1.0019
Malignant neoplasms of meninges, brain and									
other parts of central nervous system	C70-C72	191–192	10,039	10,359	0.9691	0.0025	0.3	0.9642	0.9740
and related tissue	C81_C06	200–208	44,715	44,530	1.0042	0.0012	0.1	1.0019	1.0064
			,	,					
Hodgkin's disease		201	1,021	1,036	0.9855	0.0089	0.9	0.9680	
Non-Hodgkin's lymphoma		200,202	17,924	18,326	0.9781	0.0018	0.2	0.9745	
Leukemia	C91–C95	204–208	16,600	16,405	1.0119	0.0019	0.2	1.0083	1.0158

Table III. Comparable category codes and estimated comparability ratios for 113 selected causes of death, injury by firearms, drug-induced deaths, and alcohol-induced deaths according to the Ninth and Tenth Revisions, *International Classification of Diseases*—Con.

Cause of death (Based on the Tenth Revision,	Category codes according to the	Category codes according to the		of deaths according to	Estimated	d Relat ility Standard stand		confider	ercent nce limits
International Classification of Diseases, 1992)	Tenth Revision (ICD-10)		Tenth Revision	Ninth Revision	ratio	error	error		Upper
Multiple myeloma and immunoproliferative neoplasms	C88,C90	203	9,099	8,763	1.0383	0.0030	0.3	1.0324	1.0443
Other and unspecified malignant neoplasms of									
lymphoid, hematopoietic and related tissue			*	*	*	*	*	*	*
All other and unspecified malignant neoplasms									
	C44-C49,C51-C52,C57-C60,	152, 156,158–160,163–171,173,181,							
	C66,C68–C69,C73–C80,C97	183.2–184,186–187,189.2–190,193–199	51,182	45,492	1.1251	0.0021	0.2	1.1210	1.1292
In situ neoplasms, benign neoplasms and	D00 D40	040,000	0.000		4.0744	0.0404	4.0	4 0 400	4 7007
neoplasms of uncertain or unknown behavior		210–239	9,263	5,532	1.6744	0.0164	1.0	1.6422	
Anemias		280–285	3,059	3,200	0.9559	0.0077	0.8	0.9409	
Diabetes mellitus		250	48,636	48,242	1.0082	0.0011	0.1		1.0103
Nutritional deficiencies		260–269	3,215	2,763	1.1636	0.0165	1.4		1.1960
Malnutrition		260–263	2,607	2,665	0.9782	0.0151	1.5		
Other nutritional deficiencies		264–269	608	98	6.2041	0.5961	9.6		7.3724
Meningitis		320–322	592	584	1.0137	0.0136	1.3		1.0403
Parkinson's disease		332	10,404	10,392	1.0012	0.0028	0.3		
Alzheimer's disease		331.0	29,707	19,121	1.5536	0.0071	0.5	1.5398	
Major cardiovascular diseases	100–178	390-434,436-448	796,919	798,435	0.9981	0.0002	0.0	0.9977	0.9985
Diseases of heart	100-109,111,113,120-151	390-398,402,404,410-429	615,564	624,405	0.9858	0.0002	0.0	0.9854	0.9863
Acute rheumatic fever and chronic rheumatic									
heart diseases	100-109	390-398	2,446	2,980	0.8208	0.0089	1.1	0.8034	0.8382
Hypertensive heart disease	I11	402	17,322	21,577	0.8028	0.0028	0.3	0.7973	0.8083
Hypertensive heart and renal disease		404	2,170	2,027	1.0705	0.0160	1.5	1.0392	1.1019
Ischemic heart diseases		410-414,429.2	466,459	466,935	0.9990	0.0002	0.0	0.9985	0.9994
Acute myocardial infarction		410	178,125	180,169	0.9887	0.0003	0.0	0.9880	
Other acute ischemic heart diseases		411	2.667	2.638	1.0110	0.0117	1.2	0.9880	
Other forms of chronic ischemic heart disease		412–414,429.2	285,667	284,128	1.0054	0.0004	0.0		1.0062
Atherosclerotic cardiovascular disease.	120,120	112 111,120.2	200,007	201,120	1.0001	0.0001	0.0	1.0010	1.0002
so described	125.0	429.2	64,354	61,362	1.0488	0.0016	0.2	1.0456	1.0519
All other forms of chronic ischemic heart disease.		412–414	221,313	222,766	0.9935	0.0010	0.0	0.9927	
Other heart diseases	,	415–429.1,429.3–429.9	127,167	130,886	0.9716	0.0004	0.0	0.9696	
Acute and subacute endocarditis		421	552	554	0.9964	0.0010	1.4	0.9695	
Diseases of pericardium and acute myocarditis		420.422–423	489	475	1.0295	0.0137	1.6		1.0608
Heart failure		428	44.297	42,554	1.0233	0.0100	0.1	1.0384	
All other forms of heart disease		415-417,424-427,429.0-429.1,429.3-429.	, -	87,303	0.9373	0.0013	0.1	0.9345	
Essential (primary) hypertension and hypertensive	120-120,134-130,142-149,131	415-417,424-427,429.0-429.1,429.5-429.	9 01,029	67,303	0.9373	0.0014	0.2	0.5545	0.9401
renal disease	110 110	401 402	11 050	10.604	1 1100	0.0050	0.4	1.1094	1 1001
		401,403 430–434.436–438	11,958	10,684	1.1192 1.0588	0.0050 0.0008	0.4		
Cerebrovascular diseases		,	137,264	129,640				1.0572	
Atherosclerosis		440	13,894	14,417	0.9637	0.0025	0.3	0.9588	
Other diseases of circulatory system		441–448	18,239	19,289	0.9456	0.0021	0.2		0.9498
Aortic aneurysm and dissection		441	12,216	12,201	1.0012	0.0010	0.1	0.9992	
Other diseases of arteries, arterioles and capillaries		442–448	6,023	7,088	0.8497	0.0053	0.6	0.8394	
Other disorders of circulatory system	180–199	451–459	2,984	2,899	1.0293	0.0172	1.7	0.9956	
Influenza and pneumonia		480–487	50,526	72,371	0.6982	0.0018	0.3	0.6947	
Influenza		487	572	567	1.0088	0.0073	0.7	0.9945	
Pneumonia		480–486	49,954	71,804	0.6957	0.0018	0.3	0.6922	
Other acute lower respiratory infections	J20-J22	466	346	355	0.9746	0.0392	4.0	0.8978	
Acute bronchitis and bronchiolitis	J20-J21	466	265	355	0.7465	0.0264	3.5	0.6947	0.7983
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Table III. Comparable category codes and estimated comparability ratios for 113 selected causes of death, injury by firearms, drug-induced deaths, and alcohol-induced deaths according to the Ninth and Tenth Revisions, *International Classification of Diseases*—Con.

Cause of death (Based on the Tenth Revision,	Category codes according to the	Category codes according to the	Number of allocated as		Estimated comparability	Ctandard	Relative standard	95-pe confider	ercent ace limits
International Classification of Diseases, 1992) Tenth Revision (ICD–10)		Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	ratio	error	error	Lower	Upper
Unspecified acute lower respiratory infection	J22		*	*	*	*	*	*	*
Chronic lower respiratory diseases		490-494,496	94,326	90,022	1.0478	0.0009	0.1	1.0460	1.0496
Bronchitis, chronic and unspecified	J40-J42	490-491	913	2,320	0.3935	0.0107	2.7	0.3726	0.4145
Emphysema		492	14,369	14,774	0.9726	0.0031	0.3	0.9666	0.9786
Asthma		493	4,217	4,718	0.8938	0.0061	0.7	0.8819	0.9057
Other chronic lower respiratory diseases		494,496	74,827	68,210	1.0970	0.0014	0.1	1.0943	
Pneumoconioses and chemical effects		500–506	860	845	1.0178	0.0099	1.0	0.9983	
Pneumonitis due to solids and liquids		507	10,183	9.104	1.1185	0.0048	0.4	1.1092	
Other diseases of respiratory system		034.0,460–465,470–478,495,508–519	16,656	14,269	1.1673	0.0052	0.4	1.1572	
Peptic ulcer		531–534	3,574	3,686	0.9696	0.0032	0.4	0.9608	
			209						
Diseases of appendix		540–543		202	1.0347	0.0242	2.3		
Hernia		550–553	658	633	1.0395	0.0154	1.5	1.0094	
Chronic liver disease and cirrhosis	-,	571	21,688	20,920	1.0367	0.0027	0.3	1.0314	
Alcoholic liver disease		571.0–571.3	10,147	9,965	1.0183	0.0050	0.5	1.0085	
Other chronic liver disease and cirrhosis		571.4–571.9	11,541	10,955	1.0535	0.0041	0.4	1.0454	
Cholelithiasis and other disorders of gallbladder		574–575	1,725	1,803	0.9567	0.0060	0.6	0.9450	
Nephritis, nephrotic syndrome and nephrosis		580–589	24,939	20,242	1.2320	0.0044	0.4	1.2234	1.2407
nephrotic syndrome	N00-N01,N04	580–581	161	249	0.6466	0.0342	5.3	0.5796	0.7136
and renal sclerosis unspecified	N02-N03,N05-N07,N26	582-583,587	468	1,213	0.3858	0.0144	3.7	0.3575	0.4141
Renal failure		584-586	24,290	18,758	1.2949	0.0050	0.4	1.2852	1.3047
Other disorders of kidney	N25.N27	588-589	20	22	0.9091	0.0867	9.5	0.7392	1.0790
Infections of kidney		590	731	726	1.0069	0.0144	1.4	0.9786	1.0352
Hyperplasia of prostate		600	326	327	0.9969	0.0159	1.6	0.9658	
Inflammatory diseases of female pelvic organs		614–616	63	64	0.9844	0.0410	4.2	0.9040	
Pregnancy, childbirth and the puerperium		630–676	*	*	*	*	*	*	*
Pregnancy with abortive outcome		630–639	*	*	*	*	*	*	*
Other complications of pregnancy, childbirth and									
the puerperium		640–676	*				*		
Certain conditions originating in the perinatal period Congenital malformations, deformations and		760–771.2,771.4–779	10,184	9,555	1.0658	0.0033	0.3	1.0593	
chromosomal abnormalities	Q00-Q99	740–759	5,950	7,025	0.8470	0.0055	0.6	0.8362	0.8577
laboratory findings, not elsewhere classified	R00-R99	780–799	16,940	17,732	0.9553	0.0034	0.4	0.9487	0.9620
All other diseases (Residual)		Residual	109,853	122,107	0.8996	0.0015	0.2	0.8968	0.9025
Accidents (unintentional injuries)	V01_X50 V85_V86	E800-E869,E880-E929	31,084	30,163	1.0305	0.0014	0.1	1.0278	1.0333
Transport accidents	V01-V99,Y85	E800-E848,E929.0,E929.1	17,547	17,586	0.9978	0.0006	0.1	0.9966	
	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	E810-E825	16,632	17,051	0.9754	0.0006	0.1	0.9742	0.9766
			•	•					

Table III. Comparable category codes and estimated comparability ratios for 113 selected causes of death, injury by firearms, drug-induced deaths, and alcohol-induced deaths according to the Ninth and Tenth Revisions, *International Classification of Diseases*—Con.

Cause of death (Based on the Tenth Revision,	Category codes according to the	Category codes according to the		Number of deaths allocated according to		Standard	Relative standard	confider	ercent nce limits
International Classification of Diseases, 1992)	Tenth Revision (ICD-10)	Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	ratio	error	error		Upper
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,V87.8,V88.9,V89.1,V89.3,								
	V89.9	E800-E807,E826-E829	*	*	*	*	*	*	*
Water, air and space, and other and unspecified									
transport accidents and their sequelae		E830-E848,E929.0,E929.1	351	347	1.0115	0.0209	2.1		1.0525
Nontransport accidents		E850-E869,E880-E928,E929.2-E929.9	13,537	12,577	1.0763	0.0035	0.3	1.0696	1.0831
Falls		E880-E888	5,173	6,152	0.8409	0.0049	0.6	0.8313	0.8505
Accidental discharge of firearms	. W32–W34	E922	493	466	1.0579	0.0127	1.2	1.0331	1.0828
Accidental drowning and submersion	. W65–W74	E910	283	284	0.9965	0.0127	1.3	0.9716	1.0213
Accidental exposure to smoke, fire and flames Accidental poisoning and exposure to	. X00–X09	E890-E899	493	506	0.9743	0.0089	0.9	0.9568	0.9918
noxious substance	. X40–X49	E850-E869,E924.1	*	*	*	*	*	*	*
and their sequelae	W20-W31.W35-W64.W75-W99.	E900-E909,E911-E921,E923-E924.0,							
a.i.a. i.i.a.i. ooquotao.i. i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i.i	X10–X39,X50–X59,Y86	E924.8–E928,E929.2–E929.9	6,698	4,721	1.4188	0.0123	0.9	1 3947	1.4428
Intentional self-harm (suicide)		E950–E959	18.352	18.422	0.9962	0.0005	0.0	0.9952	
Intentional self-harm (suicide) by discharge of firearms		E955.0-E955.4	14.157	14.183	0.9982	0.0003	0.0	0.9968	
Intentional self-harm (suicide) by other and			, -	,			• • • • • • • • • • • • • • • • • • • •		
unspecified means and their sequelae	. X6U-X/1,X/5-X84,Y8/.U	E950-E954,E955.5-E959	4,195	4,239	0.9896	0.0023	0.2	0.9850	
Assault (homicide)	. X85–Y09,Y87.1	E960-E969	12,287	12,308	0.9983	0.0006	0.1	0.9972	
Assault (homicide) by discharge of firearms		E965.0-E965.4	8,718	8,745	0.9969	0.0008	0.1	0.9953	0.9985
means and their sequelae	. X85–X92,X96–Y09,Y87.1	E960-E964,E965.5-E969	3,569	3,563	1.0017	0.0024	0.2	0.9969	1.0064
Legal intervention	. Y35,Y89.0	E970-E978	*	*	*	*	*	*	*
Events of undetermined intent	Y10-Y34,Y87.2,Y89.9	E980-E989	*	*	*	*	*	*	*
Discharge of firearms, undetermined intent Other and unspecified events of	Y22–Y24	E985.0-E985.4	*	*	*	*	*	*	*
undetermined intent and their sequelae	Y10-Y21,Y25-Y34,Y87,2,Y89,9	E980-E984.E985.5-E989	*	*	*	*	*	*	*
Operations of war and their sequelae	Y36, Y89, 1	E990-E999	*	*	*	*	*	*	*
Complications of medical and surgical care	. Y40–Y84,Y88	E870-E879,E930-E949	*	*	*	*	*	*	*
Injury by firearms ¹	. W32–W34,X72–X74,X93–X95, Y22–Y24,Y35.0	E922,E955.0-E955.4,E965.0-E965.4, E970.E985.0-E985.4	23,355	23,418	0.9973	0.0006	0.1	0 9961	0.9985
Drug-induced deaths ¹	F11.0-F11.5,F11.7-F11.9,F12.0-F12.5, F12.7-F12.9,F13.0-F13.5,F13.7-F13.9, F14.0-F14.5,F14.7-F14.9,F15.0-F15.5, F15.7-F15.9,F16.0-F16.5,F16.7-F16.9, F17.0,F17.3-F17.5,F17.7-F17.9, F18.0-F18.5,F18.7-F18.9,F19.0-F19.5,	2070,2000.0 2000.4	20,000	20,410	0.0310	0.0000	0.1	0.0301	0.0000
	F19.7-F19.9,X40-X44,X60-X64,X85,	292,304,305.2-305.9,E850-E858,							
Alcohol-induced deaths ¹	Y10–Y14 F10,G31.2,G62.1,I42.6,K29.2,K70,	E950.0-E950.5,E962.0,E980.0-E980.5 291,303,305.0,357.5,425.5,535.3,	1,158	969	1.1950	0.0225	1.9	1.1509	1.2391
	R78.0,X45,X65,Y15	571.0–571.3,790.3,E860	14,783	15.269	0.9682	0.0025	0.3		0.9731

^{*} Figure does not meet standards of reliability or precision; see Technical notes.

^{- - -} Category not applicable.

 $^{0.0 \ \}mbox{Quantity}$ more than zero but less than 0.05.

¹Included in selected categories.

Table IV. Comparable category codes and estimated comparability ratios for 130 selected causes of infant death according to the Ninth and Tenth Revisions, *International Classification of Diseases*

			deaths a	per of allocated ding to	Estimated		Relative	95-pe confiden	ercent nce limits
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	comparability ratio	Standard error	standard error	Lower	Upper
Certain infectious and parasitic diseases	A00-B99 A00-A08	001–033,034.1–134,136–139,771.3 001–008	284	387	0.7339	0.0339	4.6	0.6673	0.8004
Diarrhea and gastroenteritis of infectious origin	A09	009	0	144	0.0000	0.0000	0.0	0.0000	0.0000
Tuberculosis		010–018 037.771.3	*	*	*	*	*	*	*
Diptheria	,	037,771.3	*	*	*	*	*	*	*
Whooping cough		033	*	*	*	*	*	*	*
Meningococcal infection		036	25	26	0.9615	0.0377	3.9	0.8876	1.0355
Septicemia		038	167	121	1.3802	0.0713	5.2	1.2403	1.5200
Congenital syphillis		090 098	*	*	*	*	*	*	*
Viral diseases		042–079	62	62	1.0000	0.0757	7.6	0.8517	1.1483
Acute poliomyelitis		045	*	*	*	*	*	*	*
Varicella (chickenpox)		052	*	*	*	*	*	*	*
Measles	B05 B20–B24	055 042–044	*	*	*	*	*	*	*
Mumps	B26	072	*	*	*	*	*	*	*
Other and unspecified viral diseases	A81-B00,B02-B04,B06-B19,B25,	·							
	B27-B34	046-051,053-054,056-071,073-079	35	36	0.9722	0.1255	12.9	0.7262	1.2182
Candidiasis	B37 B50–B54	112	*	*	*	*	*	*	*
Malaria	B59	084 136.3	*	*	*	*	*	*	*
All other and unspecified infectious and parasitic	200	100.0							
diseases	A20-A32,A38,A42-A49,A51-A53,	020-031,034.1-035,039-041,080-083,							
	A55–A79,B35–B36,B38–B49, B55–B58,B60–B99	085–088,091–097,099–111,114–134, 136.0–136.2,136.4–139	*	*	*	*	*	*	*
Neoplasms	C00-D48	140–239	73	72	1.0139	0.0420	4.1	0.9317	1.0961
Malignant neoplasms	C00-C97	140–208	48	46	1.0435	0.0544	5.2	0.9369	1.1501
Hodgkin's disease and non-Hodgkin's lymphomas		200–202	*	*	*	*	*	*	*
Leukemia	C91-C95	204–208		*	*		*	*	1 0400
Other and unspecified malignant neoplasms In situ neoplasms, benign neoplasms and neoplasms of	C00-C80,C88-C90,C96-C97	140–199,203	30	28	1.0714	0.0906	8.5	0.8939	1.2489
uncertain or unknown behavior	D00-D48	210–239	25	26	0.9615	0.1131	11.8	0.7398	1.1833
Diseases of the blood and blood-forming organs and									
certain disorders involving the immune mechanism	D50-D89	135, 279–289	35	50	0.7000	0.0803	11.5	0.5427	0.8573
Anemias	D50–D64 D65–D76	280–285 286–289	*	*	*	*	*	*	*
Certain disorders involving the immune mechanism	D80-D89	135.279	*	*	*	*	*	*	*
Endocrine, nutritional and metabolic diseases	E00-E88	240–278	112	129	0.8682	0.0555	6.4	0.7595	0.9770
Short stature, not elsewhere classified	E34.3	259.4	*	*	*	*	*	*	*
Malnutrition and other nutritional deficiencies		260–269	*	*	*	*	*	*	*
Cystic fibrosis	E84	277.0							
acid-base balance	E86-E87	276	40	53	0.7547	0.0852	11.3	0.5878	0.9217

Table IV. Comparable category codes and estimated comparability ratios for 130 selected causes of infant death according to the Ninth and Tenth Revisions, *International Classification of Diseases*—Con.

			deaths	ber of allocated ding to	Estimated		Relative		ercent ice limits
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	comparability ratio	Standard error	standard error	Lower	Upper
All other endocrine, nutritional and metabolic									
diseases	E00-E32,E34.0-E34.2,E34.4-E34.9,	240-259.3,259.8-259.9,270-275,							
	E65-E83,E85,E88	277.1–278	64	55	1.1636	0.0809	6.9	1.0051	1.3221
Diseases of the nervous system		320–359,435	305	286	1.0664	0.0263	2.5	1.0149	1.1180
Meningitis		320–322	70	70	1.0000	0.0404	4.0	0.9208	1.0792
(Werdnig-Hoffman)		335.0	47	47	1.0000	0.0521	5.2	0.8978	1.1022
Infantile cerebral palsy		343	*	*	*	*	*	*	*
Anoxic brain damage, not elsewhere classified		348.1	29	30	0.9667	0.1269	13.1	0.7179	1.2155
Other diseases of nervous system									
	G20-G72,G81-G92,G93.0,	323–334,335.1–342,344–348.0,							
5 1	G93.2–G93.9,G95–G98	348.2–359,435	145	126	1.1508	0.0532	4.6	1.0466	1.2550
Diseases of the ear and mastoid process		380–389			. 7400	*			
Diseases of the circulatory system	100–199	390–434,436–459	419	587	0.7138	0.0244	3.4	0.6659	0.7617
Pulmonary heart disease and diseases of pulmonary	100, 100	445 447	400	400	4 4000	0.0447	4.0	4 00 40	4 0007
circulation		415–417	138	123	1.1220	0.0447	4.0	1.0342	1.2097
Pericarditis, endocarditis and myocarditis		420–422				0.0400		0.0400	4 0000
Cardiomyopathy		425 427.5	82	84 87	0.9762 0.2874	0.0166	1.7	0.9436	1.0088 0.3869
Cardiac arrest	146	427.5 430–434.436–438	25 77	163	0.2874	0.0508 0.0510	17.7	0.1878	
Cerebrovascular diseases		430–434,436–436 390–414,423–424,426–427.4,	//	103	0.4724	0.0510	10.8	0.3725	0.5723
All other diseases of circulatory system	147–151,170–199	427.6–429.440–459	88	123	0.7154	0.0519	7.3	0.6137	0.8172
Disease of the respiratory system		034.0.460–519	420	516	0.7134	0.0319	2.7	0.0137	0.8570
Acute upper respiratory infections		034.0,460–319	420 *	*	0.0140 *	0.0220 *	۷. <i>۱</i> *	0.770 9 *	0.0570 *
Influenza and pneumonia		480–487	231	303	0.7624	0.0261	3.4	0.7112	0.8135
Influenza		487	*	*	*	0.0201 *	*	V.7112 *	*
Pneumonia		480–486	224	295	0.7593	0.0266	3.5	0.7072	0.8114
Acute bronchitis and acute bronchiolitis		466	33	41	0.8049	0.0200	9.4	0.6563	0.9534
Bronchitis, chronic and unspecified		490–491	*	*	*	*	*	*	*
Asthma		493	*	*	*	*	*	*	*
Pneumonitis due to solids and liquids		507	*	*	*	*	*	*	*
Other and unspecified diseases of respiratory system		470-479,492,494-506,508-519	117	127	0.9213	0.0632	6.9	0.7973	1.0452
Diseases of the digestive system	K00-K92	520–579	278	167	1.6647	0.1084	6.5	1.4521	1.8772
colitis	K29,K50-K55	535, 555–558	137	47	2.9149	0.3879	13.3	2.1547	3.6751
Hernia of abdominal cavity and intestinal obstruction	K29,K30-K33	555, 555–556	137	47	2.9149	0.3679	13.3	2.1347	3.0731
without hernia	K40-K46.K56	550-553.560	*	*	*	*	*	*	*
All other and unspecified diseases of digestive system		520–534,536–543,562–579	84	86	0.9767	0.0708	7.3	0.8379	1.1156
Diseases of the genitourinary system	N00-N98	580–629	117	117	1.0000	0.07667	7.3 5.7	0.8889	1.1111
Renal failure and other disorders of kidney		584–589	102	98	1.0408	0.0567	6.3	0.0009	1.1699
Other and unspecified diseases of genitourinary	1417 1410,1420,1427	00± 000	102	50	1.0700	0.0000	0.0	0.0110	1.1000
system	N00-N15,N20-N23,N26,N28-N98	580-583,590-629	*	*	*	*	*	*	*
Certain conditions originating in the perinatal period		760–771.2,771.4–779	10,047	9,495	1.0581	0.0032	0.3	1.0519	1.0643
23. a.i. 33. allono originating in the permatar period			10,011	0,100	1.0001	0.0002	0.0		

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			deaths a	per of allocated ding to	Estimated		Relative		ercent nce limits
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	comparability ratio	Standard error	standard	Lower	Upper
Newborn affected by maternal factors and by									
complications of pregnancy, labor and delivery	P00-P04	760–763	1,305	1,256	1.0390	0.0099	1.0	1.0196	1.0585
Newborn affected by maternal hypertensive disorders .	P00.0	760.0	23	22	1.0455	0.0465	4.4	0.9544	1.1365
Newborn affected by other maternal conditions which									
may be unrelated to present pregnancy	P00.1-P00.9	760.1-760.6,760.8-760.9	*	*	*	*	*	*	*
Newborn affected by maternal complications of		,							
pregnancy	P01	761	662	643	1.0295	0.0138	1.3	1.0024	1.0567
Newborn affected by incompetent cervix		761.0	205	201	1.0199	0.0188	1.8	0.9831	1.0567
Newborn affected by premature rupture of									
membranes	P01.1	761.1	314	307	1.0228	0.0136	1.3	0.9962	1.0494
Newborn affected by multiple pregnancy		761.5	104	103	1.0097	0.0507	5.0	0.9103	1.1091
Newborn affected by other maternal complications									
of pregnancy	P01.2-P01.4,P01.6-P01.9	761.2-761.4,761.6-761.9	39	32	1.2188	0.1655	13.6	0.8945	1.5430
Newborn affected by complications of placenta, cord	•	•							
and membranes	P02	762	579	553	1.0470	0.0128	1.2	1.0219	1.0721
Newborn affected by complications involving									
placenta	P02.0-P02.3	762.0-762.3	306	285	1.0737	0.0174	1.6	1.0395	1.1079
Newborn affected by complications involving cord		762.4–762.6	*	*	*	*	*	*	*
Newborn affected by chorioamnionitis		762.7	258	255	1.0118	0.0163	1.6	0.9799	1.0436
Newborn affected by other and unspecified									
abnormalities of membranes	P02.8-P02.9	762.8–762.9	*	*	*	*	*	*	*
Newborn affected by other complications of labor									
and delivery	P03	763.0-763.4,763.6-763.9	37	20	1.8500	0.3262	17.6	1.2107	2.4893
Newborn affected by noxious influences transmitted		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
via placenta or breast milk	P04	760.7, 763.5	*	*	*	*	*	*	*
Disorders related to length of gestation and fetal									
malnutrition	P05-P08	764–766	3.843	3,474	1.1062	0.0064	0.6	1.0936	1.1188
Slow fetal growth and fetal malnutrition		764	34	30	1.1333	0.1004	8.9	0.9366	1.3301
Disorders related to short gestation and low birth									
weight, not elsewhere classified	P07	765	3,809	3,444	1.1060	0.0064	0.6	1.0934	1.1186
Extremely low birthweight or extreme immaturity		765.0	2,835	2,558	1.1083	0.0079	0.7	1.0927	1.1239
Other low birthweight or preterm		765.1	974	886	1.0993	0.0135	1.2	1.0729	1.1258
Disorders related to long gestation and high									
birthweight	P08	766	*	*	*	*	*	*	*
Birth trauma		767	5	113	0.0442	0.0197	44.5	0.0056	0.0829
Intrauterine hypoxia and birth asphyxia		768	401	277	1.4477	0.0599	4.1	1.3303	1.5650
Intrauterine hypoxia		768.2–768.4	57	63	0.9048	0.1227	13.6	0.6643	1.1452
Birth asphyxia		768.5–768.9	344	214	1.6075	0.0763	4.7	1.4579	1.7571
Respiratory distress of newborn		769	917	894	1.0257	0.0131	1.3	1.0001	1.0513
Other respiratory conditions originating in the perinatal				** .			·- -		,
period	P23-P28	770	1,160	1,372	0.8455	0.0216	2.6	0.8032	0.8878
Congenital pneumonia		770.0	57	15	3.8000	0.9004	23.7	2.0352	5.5648
Neonatal aspiration syndromes		770.1	78	56	1.3929	0.1115	8.0	1.1743	1.6114
Interstitial emphysema and related conditions		2		-			3.0		
originating in the perinatal period	P25	770.2	146	121	1.2066	0.0595	4.9	1.0899	1.3233
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				per of allocated ding to	Estimated		Relative	95-pe	ercent ce limits
Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	comparability ratio	Standard error	standard error	Lower	Upper
Pulmonary hemorrhage originating in the perinatal									
period	P26	770.3	212	145	1.4621	0.0751	5.1	1.3150	1.6092
period	P27	770.7	243	214	1.1355	0.0327	2.9	1.0715	1.1995
Atelectasis	P28.0–P28.1	770.4–770.5	382	185	2.0649	0.1144	5.5	1.8406	2.2891
perinatal period	P28.2-P28.9	770.6–770.8	42	636	0.0660	0.0101	15.2	0.0463	0.0858
Infections specific to the perinatal period	P35-P39	771.0–771.2,771.4–771.8	563	552	1.0199	0.0261	2.6	0.9688	1.0710
Bacterial sepsis of newborn	P36	771.8	470	514	0.9144	0.0272	3.0	0.8611	0.9677
hemorrhage	P38	771.4	*	*	*	*	*	*	*
period	P35,P37,P39	771.0-771.2,771.5-771.7	93	38	2.4474	0.3705	15.1	1.7211	3.1736
Hemorrhagic and hematological disorders of newborn	P50-P61	772–774, 776	390	274	1.4234	0.0640	4.5	1.2979	1.5488
Neonatal hemorrhage	P50-P52,P54	772	319	222	1.4369	0.0698	4.9	1.3002	1.5737
Hemorrhagic disease of newborn	P53	776.0	*	*	*	*	*	*	*
and other perinatal jaundice	P55-P59	773–774	*	*	*	*	*	*	*
Hematological disorders	P60-P61	776.1–776.9	*	*	*	*	*	*	*
diabetes mellitus	P70.0-P70.2	775.0–775.1	*	*	*	*	*	*	*
Necrotizing enterocolitis of newborn	P77	777.5	249	203	1.2266	0.0456	3.7	1.1371	1.3161
Hydrops fetalis not due to hemolytic disease		778.0	120	120	1.0000	0.0264	2.6	0.9483	1.0517
Other perinatal conditions		775.2–775.9,777.0–777.4,777.6–777.9, 778.1–779	1,092	954	1.1447	0.0192	1.7	1.1070	1.1823
Congenital malformations, deformations and	. 66.6 . 66		.,002			0.0.02	•••		020
chromosomal abnormalities	Q00-Q99	740–759	3,400	3,751	0.9064	0.0057	0.6	0.8953	0.9176
Anencephaly and similar malformations		740	299	299	1.0000	0.0000	0.0	1.0000	1.0000
Congenital hydrocephalus	Q03	742.3	62	91	0.6813	0.0552	8.1	0.5732	0.7895
Spina bifida	Q05	741	24	32	0.7500	0.0765	10.2	0.6000	0.9000
Other congenital malformations of nervous system	Q01-Q02,Q04,Q06-Q07	742.0-742.2,742.4-742.9	191	177	1.0791	0.0477	4.4	0.9856	1.1725
Congenital malformations of heart	Q20-Q24	745–746	1,022	1,027	0.9951	0.0081	0.8	0.9793	1.0109
Other congenital malformations of circulatory system	Q25-Q28	747	75	121	0.6198	0.0504	8.1	0.5210	0.7186
Congenital malformations of respiratory system	Q30-Q34	748	361	571	0.6322	0.0225	3.6	0.5882	0.6762
Congenital malformations of digestive system	Q35-Q45	749–751	*	*	*	*	*	*	*
Congenital malformations of genitourinary system Congenital malformations and deformations of	Q50-Q64	752–753	216	229	0.9432	0.0244	2.6	0.8955	0.9910
musculoskeletal system, limbs and integument	Q65-Q85	754–757	269	311	0.8650	0.0319	3.7	0.8024	0.9275
Down's syndrome	Q90	758.0	57	58	0.9828	0.0705	7.2	0.8446	1.1209
Edward's syndrome		758.2	277	278	0.9964	0.0080	0.8	0.9807	1.0121
Patau's syndrome	Q91.4–Q91.7	758.1	170	173	0.9827	0.0099	1.0	0.9632	1.0021
Other congenital malformations and deformations Other chromosomal abnormalities, not elsewhere	Q10-Q18,Q86-Q89	743–744,759	304	312	0.9744	0.0210	2.2	0.9332	1.0155
classified.	Q92-Q99	758.3–758.9	57	53	1.0755	0.0783	7.3	0.9221	1.2289

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Cause of death (Based on the Tenth Revision, International Classification of Diseases, 1992)	Category codes according to the Tenth Revision (ICD-10)	Category codes according to the Ninth Revision (ICD-9)	Tenth Revision	Ninth Revision	comparability ratio	Standard error	standard error	Lower	Upper
Symptoms, signs and abnormal clinical and laboratory									
findings, not elsewhere classified	R00–R99 R95	780–799 798.0	2,799 2,575	2,732 2,485	1.0245 1.0362	0.0042 0.0040	0.4 0.4	1.0163 1.0284	1.0327 1.0440
Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	R00-R53,R55-R594,R96-R99	780–796,798.1–799	224	247	0.9069	0.0270	3.0	0.8540	0.9598
All other diseases		290-319,360-379,680-739 E800-E999	441	444	0.9932	0.0098	1.0	0.9741	1.0124
Accidents (unintentional injuries)		E800-E869,E880-E929	292	285	1.0246	0.0098	1.0	1.0037	1.0124
Transport accidents	V01-V99	E800-E848,E920-E929.1	99	108	0.9167	0.0294	3.2	0.8590	0.9743
Motor vehicle accidents		E810-E825	95	98	0.9694	0.0234	1.8	0.9349	1.0039
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,		33	90	0.9094	0.0170	1.0	0.3043	1.0039
F.11.	V88.9,V89.1,V89.3,V89.9,V90–V99	E800-E807,E826-E848,E929.1	*	*	*	*	*	*	*
Falls		E880-E888 E922	*	*	*	*	*	*	*
Accidental discharge of frearms		E922 E910	*	*	*	*	*	*	*
Accidental arowning and submersion		E913.0	*	*	*	*	*	*	*
Other accidental suffocation and strangulation		E913.1–E913.9	79	69	1.1449	0.0537	4.7	1.0396	1.2502
Accidental inhalation and ingestion of food or other	VV70-VV77, VV01-VV04	L910.1-L910.9	13	03	1.1443	0.0557	4.7	1.0000	1.2002
objects causing obstruction of respiratory tract Accidents caused by exposure to smoke, fire and	W78–W80	E911-E912	32	29	1.1034	0.0810	7.3	0.9447	1.2622
flames	X00-X09	E890-E899	*	*	*	*	*	*	*
substances		E850-E869,E924.1 E900-E909,E914-E921,E923-E924.0,	*	*	*	*	*	*	*
Other and unspecified accidents	X10–X39,X50–X59	E924.8-E929	*	*	*	*	*	*	*
Assault (homicide)		E960-E968	146	154	0.9481	0.0179	1.9	0.9130	0.9831
Assault (homicide) by hanging, strangulation and	700 100	2000 2000	140	104	0.0401	0.0170	1.0	0.0100	0.0001
suffocation	X91	E963	*	*	*	*	*	*	*
Assault (homicide) by discharge of firearms Neglect, abandonment and other maltreatment	X93-X95	E965.0-E965.4	*	*	*	*	*	*	*
syndromes	Y06-Y07	E967,E968.4	*	*	*	*	*	*	*
Assault (homicide) by other and unspecified means	X85-X90,X92,X96-X99,Y00-Y05, Y08-Y09	E960-E962,E964,E965.5-E966, E968.0-E968.3, E968.8-E968.9	91	88	1.0341	0.0417	4.0	0.9524	1.1158
Complications of medical and surgical care		E870-E879,E930-E949	*	*	*	*	*	*	*
Other external causes		E970–E979	*	*	*	*	*	*	*

^{*} Figure does not meet standards of reliability or precision; see Technical notes.

^{0.0} Quantity more than zero but less than 0.05.

selecting the underlying cause of death. Records that could not be processed were rejected for manual coding. Since the rejects are not fully representative of the complete file, the comparability ratios in this report are biased to an unknown extent. For most categories the bias is believed to be small. Tables III and IV show comparability ratios only for causes of death for which the data were deemed reliable; data not deemed reliable were replaced with an asterisk (*).

For the 15 leading causes of death in 1999 according to ICD-10, table 8 presents death rates for 1999, death rates for 1998 for the most nearly comparable ICD-9 titles (tables I and II) multiplied by the comparability ratio (comparability-modified rates), and death rates for 1998 that are not comparability modified. Comparability-modified data for 1998 uses ICD-9 codes that approximate ICD-10 categories (table III).

Selected causes of death with problems of interpretation

Changes between the comparability-modified 1998 rates and the 1999 rates for selected causes should be interpreted with caution due to concerns with the accuracy of the comparability ratio if the ratio does not accurately account for difference in the coding and classification system, changes in death rates between 1998 and 1999 will be under or overstated. Although comparability-modified 1998 rates are presented in this report for only the 15 leading causes of death (table 8), the following paragraphs attempt to explain some of the issues in interpreting these data for selected causes in the List of 113 Selected Causes of Death and the List of 130 Selected Causes of Infant Death. For further explanation of these issues, refer to the report, Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates (9).

Alzheimer's disease—The comparability ratio for Alzheimer's disease (ICD–10 code G30) is 1.5536 (table III), indicating a 55 percent increase in Alzheimer's disease deaths when classified by ICD–10. In absolute terms, more than 10,000 additional deaths were classified to Alzheimer's disease in ICD–10 than in ICD–9. Nearly all of this increase (about 95 percent) comes from deaths that were classified in ICD–9 as Presenile dementia (ICD–9 code 290.1).

The application of the comparability ratio presented for Alzheimer's disease to years later than 1996 may substantially underestimate the increase in Alzheimer's disease due to ICD-10. Increases in the reporting of Alzheimer's-type dementia have occurred since 1996, resulting in substantial increases in Presentle dementia from 1996 to 1998. The number of Alzheimer's disease deaths increased by about 1,000 deaths between 1996 and 1997; slowing to an increase of about 300 between 1997 and 1998. In contrast, the increase in Presenile dementia was more substantial, about 2,000 deaths each year. If the comparability ratio were based on 1998 data it would probably be at least 1.69 (approximating the ICD-10-classified Alzheimer's disease deaths by adding the Alzheimer's disease and Presenile dementia deaths). Assuming proportionately similar increases in the ICD-9 classification of Alzheimer's disease and Presenile dementia from 1998 to 1999, the comparability ratio based on 1999 data could be as high as 1.8 or 1.9 resulting in higher rates for Alzheimer's disease in 1998. As a consequence, the reported increase in mortality for Alzheimer's disease in table C is overstated considerably.

Nephritis, nephrotic syndrome and nephrosis and Renal failure—Nephritis, nephrotic syndrome and nephrosis (ICD-10 codes N00-N07,N17-N19,N25-N27) has a comparability ratio of 1.2320

(table III). The 23 percent increase in this category is due primarily to changes in the classification of Renal failure (ICD–10 codes N17–N19) that has a comparability ratio of 1.2949. End-stage renal disease, which was classified as an unspecified disorder of the kidney in ICD–9 (ICD–9 code 593.9) (grouped with All other diseases), has been reclassified in ICD–10 as End-stage renal disease (ICD–10 code N18.0), a subcategory of Renal failure (N17–N19). This results in adding a substantial number of deaths to the Renal failure and Nephritis, nephrotic syndrome and nephrosis categories.

When applied to years later than 1996, the comparability ratios for Nephritis, nephrotic syndrome and nephrosis and Renal failure presented in this report may underestimate the increase in these causes due to ICD–10. From 1996 to 1999 reporting of End-stage renal disease increased by about 1,900 deaths. This increase disproportionately affects the numerator of the comparability ratio since End-stage renal disease is included with Renal failure in ICD–10, but not in ICD–9. Thus, the numerator of the comparability ratio should probably be larger by roughly 1,900 deaths giving a comparability ratio about 1.4 for Renal failure and about 1.3 for Nephritis, nephrotic syndrome and nephrosis.

Pregnancy, childbirth and the puerperium—The large increase in the number of deaths attributable to Pregnancy, childbirth and the puerperium (ICD–10 codes O00-O99) is due to a selection rule change in ICD–10 (26). See section entitled *Maternal mortality*.

Motor vehicle accidents and Other land transport accidents—The preliminary comparability ratio for Motor vehicle accidents shown in table III (0.9754) is different from that shown in the report, Comparability of Cause of Death Between ICD-9 and ICD-10: Preliminary Estimates (9). For a death to be classified as a Motor vehicle accident in ICD-10, it must be explicit that the injury involved a "motor" vehicle. In ICD-9, in the absence of the term "motor" or when a vehicle accident was reported as occurring on a highway or road, the assumption was to classify the accident as involving a motor vehicle. ICD-10 does not allow this assumption and classifies such accidents as involving unspecified vehicles (categorized in ICD-10 as Other land transport accidents). However, for U.S. data, it has been decided that, if an accident occurred on a highway or road, classification to Motor vehicle accident is appropriate. This change is made in this report. Taking into account, this change in classification results in a revised comparability ratio for Motor vehicle accidents. This ratio is only applicable to data in which the aforementioned classification change was implemented. It is possible that some States may have released data that does not include this change.

Diarrhea and gastroenteritis of infectious origin—The apparent elimination of infant deaths due to Diarrhea and gastroenteritis of infectious origin (ICD-10 code A09) occurred because in ICD-10, for developed countries, diarrhea or gastroenteritis is presumed to be noninfectious unless specified otherwise. In ICD-9 the presumption was that the disease was infectious when unspecified. Records coded in ICD-9 to ICD-9 code 009.0 (Infectious colitis, enteritis, and gastroenteritis) are reclassified in ICD-10 to noninfectious causes.

Birth trauma—For newborns, cerebral hemorrhage either unspecified or due to birth injury, anoxia, or hypoxia was classified in ICD–9 to a birth injury or trauma (ICD–9 code 767.0, Subdural and cerebral hemorrhage). In ICD–10, for the cerebral hemorrhage to be classified as birth injury (ICD–10 code P10.0, Subdural hemorrhage due to birth injury), the certifier must specify that there was a birth injury. Cerebral hemorrhages either unspecified or due to anoxia or hypoxia are classified as nontraumatic. Nearly all of the Birth trauma (ICD–10 codes

P10-P15) cases are reclassified to nontraumatic causes: thus the numerator of the comparability ratio is based on a very small number (table IV).

Atelectasis—In ICD-10, when hypoplasia or dysplasia of lung is mentioned on the death certificate with prematurity or short gestation, the appropriate classification is Primary atelectasis of newborn (ICD-10 codes P28.0-P28.1) rather than Hypoplasia and dysplasia of lung (ICD-10 code Q33.6). Due to this coding change, the number of deaths classified to Atelectasis increased substantially in 1999.

Sudden infant death syndrome (SIDS)—The large decrease in the number of deaths attributable to SIDS (ICD-10 code R95) is partially due to the change in the way SIDS is diagnosed in the medical community and reported on the death certificate. Many of these deaths have been classified to the category Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified.

Codes for firearm deaths

Causes of death attributable to firearm mortality include ICD-10 codes 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 selected codes from the ICD-10 title Mental and behavioral disorders due to psychoactive substance use, specifically, ICD-10 codes F11.0-F11.5, F11.7-F11.9, F12.0-F12.5, F12.7-F12.9, F13.0-F13.5, F13.7-F13.9, F14.0-F14.5, F14.7-F14.9, F15.0-F15.5, F15.7-F15.9, F16.0-F16.5, F16.7-F16.9, F17.0, F17.3-F17.5, F17.7-F17.9, F18.0-F18.5, F18.7-F18.9, F19.0-F19.5, and F19.7-F19.9; Accidental poisoning by and exposure to drugs, medicaments and biological substances, X40–X44; Intentional self-poisoning (suicide) by and exposure to drugs, medicaments and biological substances, X60-X64; Assault (homicide) by drugs, medicaments and biological substances, X85; and Poisoning by and exposure to drugs, medicaments and biological substances, undetermined intent, Y10-Y14. Drug-induced causes exclude accidents, homicides, and other causes indirectly related to drug use. Also excluded are newborn deaths associated with mother's drug use.

Codes for alcohol-induced deaths

Causes of death attributable to alcohol-induced mortality include ICD-10 codes F10, Mental and behavioral disorders due to alcohol use; G31.2, Degeneration of nervous system due to alcohol; G62.1, Alcoholic polyneuropathy; I42.6, Alcoholic cardiomyopathy; K29.2, Alcoholic gastritis; K70, Alcoholic liver disease; 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. This category also excludes newborn deaths associated with maternal alcohol use.

Marital status

Age-specific and age-adjusted death rates by marital status are shown in table 22. Mortality data by marital status is 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 (37). Age-adjusted death rates by marital status were computed based on the age-specific rates and the standard population for ages 25 years and over. While age-specific death rates by marital status are shown for the age group 15-24 years, they are not included in the computation of the age-adjusted rate because of their high variability, particularly among the widowed population. Also, the age groups 75-84 and 85 years and over are combined due to high variability in death rates in the 85 year and over age group, particularly for the never-married population.

Educational attainment

Beginning with the 1989 data year, an item indicating decedent's educational attainment was added to the certificates of numerous States. Mortality data on educational attainment for 1999 are based on deaths to residents of the 46 States and the District of Columbia whose data were approximately 80 percent or more complete on a place-of-occurrence basis. Data for Kentucky were excluded using this criterion. Data for Georgia, Rhode Island, and South Dakota were excluded because the item was not on their certificates.

Age-specific and age-adjusted death rates by educational attainment are shown in table 23. Age-adjusted death rates by educational attainment were computed based on the age-specific rates and the standard population for ages 25-64 years. Data for age groups 65 years and over are not shown because reporting quality is poorer at older than younger ages (46).

Rates by educational attainment are affected by differences in the measuring education for the numerator and the denominator. The numerator is based on number of years of education completed as reported on the death certificate whereas the denominator is based on highest degree completed as reported on census surveys (47).

Injury at work

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. The 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 24 and 25. Deaths, crude death rates, and age-adjusted death rates for injury at work are shown for ages 15 years and over. Age-adjusted death rates for injury at work were computed using age-specific death rates and the U.S. standard population based on year 2000 standard for ages 15 years and over. See section on Computation of Rates.

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 1999* (48). In contrast to infant mortality rates based on live births, infant death rates are based on the estimated population under 1 year of age. 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 estimated population of persons under 1 year of age on July 1, 1999, and are presented as rates per 100,000 population in this age group. Because of differences in the denominators, infant death rates may differ from infant mortality rates.

Maternal mortality

Maternal mortality rates are computed on the basis of the number of live births. The maternal mortality rate indicates the likelihood of a pregnant woman dying of maternal causes. They are calculated by dividing the number of maternal deaths in a calendar year by the number of live births registered for the same period and are presented as rates per 100,000 live births. The number of live births used in the denominator is an approximation of the population of pregnant women who are at risk of a maternal death.

"Maternal deaths" are defined by the World Health Organization as "the death of a woman while pregnant or within 42 days of termination of pregnancy, irrespective of the duration and the site of the pregnancy, from any cause related to or aggravated by the pregnancy or its management, but not from accidental or incidental causes" (6). Included in these deaths are ICD-10 codes O00-O95, O98-O99, and A34.

Changes have been made in the classification and coding of maternal deaths between ICD-9 and ICD-10, effective with mortality data for 1999. Some State death certificates include a separate question regarding pregnancy status. A positive response to the question is interpreted as "pregnant" being reported in Part II of the cause-of-death section of the death certificate. If a specified length of time is not provided by the medical certifier, it is assumed that the pregnancy terminated 42 days or less prior to death. Further, if only indirect maternal causes of death (that is, a previously existing disease or a disease that developed during pregnancy that was not due to direct obstetric causes but was aggravated by physiologic effects of pregnancy) are reported in Part I and pregnancy is reported in either Part I or Part II, ICD-10 classifies this as a maternal death. ICD-9 only classified the death as maternal if pregnancy was reported in Part I.

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 deaths occur for which the underlying causes are impossible to determine, this proportion indicates the care and consideration given to the cause-of-death statement by the medical certifier. This proportion also may be used as a rough measure of the specificity of the medical diagnoses made by the certifier in various areas. In 1999, 1.12 percent of all reported deaths in the United States were assigned to Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified. The percent of deaths from this cause for all ages combined generally has remained stable since 1990.

Rare causes of death

Selected causes of death considered to be of public health concern are routinely confirmed by the States according to agreed upon procedures between the State vital statistics programs and the National Center for Health Statistics. These causes, termed Infrequent and rare causes of death, are listed in the NCHS instruction manuals Parts 2a, 11, and 20 (26,49,50).

As a consequence of the major effort involved in implementing a new revision of the ICD, a number of States did not provide complete confirmation of deaths from Infrequent and rare causes for 1999. These States include the following: California, Florida, Illinois, Indiana, Kentucky, Maine, Michigan, Missouri, New Jersey, New York City, North Carolina, Ohio, Pennsylvania, Rhode Island, Washington, and West Virginia.

Population bases for computing rates

The population used for computing death rates in this report (furnished by the U.S. Bureau of the Census) represents the population residing in the specified area, enumerated as of April 1 for census years and estimated as of July 1 for all other years. Death rates for the United States for 1999 are based on population estimates as of July 1, 1999, shown in table V by 10-year age groups and available by 5-year age groups on the mortality Web site at http://www.cdc.gov/nchs/datawh/statab/unpubd/mortabs.htm (51). The estimates are based on the 1990 census level counts. The 1990 census level counts by race were modified to be consistent with U.S. Office of Management and Budget categories and historical categories for death data (52). The population estimates for Mexicans, Puerto Ricans, Cubans, and Other Hispanics, shown in table VI, and the population estimates by marital status, shown in table VII, are based on the Current Population Survey adjusted to resident population control totals (53) for the United States and, as such, are subject to sampling variation (see "Random variation").

Population estimates by educational attainment, shown in table VIII, are also based on the Current Population Survey (53) adjusted to resident population control totals for 46 States and the District of Columbia and are also subject to sampling variation (see "Random variation").

Population estimates for each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, shown in table IX, are based on demographic analysis and, therefore, are not subject to sampling variation (54–59).

Computing rates

Except for infant and maternal mortality rates, rates are on an annual basis per 1,000 or per 100,000 estimated population residing in the specified area. Infant and maternal 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 the text about any two rates does not mean that the difference was tested and found not to be significant at this level.

Age-adjusted rates are used to compare relative mortality risks among groups and over time. However, they should be viewed as

Table V. Estimated population by 10-year age groups, specified race and sex: United States, 1999

		All races			White			Black		А	merican India	an	Asian	or Pacific Isl	ander
Age	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	272,690,813	133,276,559	139,414,254	224,610,797	110,336,291	114,274,506	34,862,169	16,557,186	18,304,983	2,397,426	1,186,745	1,210,681	10,820,421	5,196,337	5,624,084
Under 1 year	3,819,903	1,952,133	1,867,770	3,027,180	1,549,389	1,477,791	568,772	289,078	279,694	42,542	21,442	21,100	181,409	92,224	89,185
1–4 years	15,122,239	7,730,542	7,391,697	12,015,456	6,155,680	5,859,776	2,226,888	1,129,687	1,097,201	159,576	80,755	78,821	720,319	364,420	355,899
5-14 years	39,495,230	20,219,664	19,275,566	31,094,794	15,940,356	15,154,438	6,232,872	3,166,617	3,066,255	467,966	237,653	230,313	1,699,598	875,038	824,560
15-24 years	37,773,512	19,334,049	18,439,463	30,014,705	15,441,143	14,573,562	5,740,422	2,881,622	2,858,800	428,979	215,783	213,196	1,589,406	795,501	793,905
25-34 years	37,935,812	18,826,288	19,109,524	30,431,393	15,273,321	15,158,072	5,286,663	2,505,284	2,781,379	374,047	191,269	182,778	1,843,709	856,414	987,295
35-44 years	44,812,649	22,254,316	22,558,333	36,946,545	18,540,240	18,406,305	5,652,358	2,653,695	2,998,663	358,769	178,119	180,650	1,854,977	882,262	972,715
45-54 years	35,802,358	17,499,088	18,303,270	30,249,529	14,954,220	15,295,309	3,928,525	1,783,710	2,144,815	256,008	123,692	132,316	1,368,296	637,466	730,830
55-64 years	23,389,085	11,150,407	12,238,678	20,133,661	9,710,115	10,423,546	2,345,099	1,014,648	1,330,451	148,113	69,600	78,513	762,212	356,044	406,168
65-74 years	18,218,248	8,198,696	10,019,552	15,958,629	7,243,777	8,714,852	1,678,493	707,523	970,970	90,511	40,756	49,755	490,615	206,640	283,975
75–84 years 85 years	12,146,695	4,871,134	7,275,561	10,965,640	4,414,172	6,551,468	889,080	333,297	555,783	50,534	21,212	29,322	241,441	102,453	138,988
and over	4,175,082	1,240,242	2,934,840	3,773,265	1,113,878	2,659,387	312,997	92,025	220,972	20,381	6,464	13,917	68,439	27,875	40,564

SOURCE: Unpublished Bureau of the Census file NESTV99.

Table VI. Estimated population by 10-year age groups, according to specified Hispanic origin, race for non-Hispanic population, and sex: United States, 1999

Hispanic origin, race for non-Hispanic population, and sex	Total	Under 1 year	1–4 years	5–14 years	15–24 years	25–34 years	35–44 years	45–54 years	55–64 years	65–74 years	75–84 years	85 years and over
All origins	272,690,817	3,819,898	15,122,243	39,495,210	37,773,512	37,935,822	44,812,633	35,802,344	23,389,103	18,218,255	12,146,702	4,175,095
	133,276,546	1,952,129	7,730,544	20,219,645	19,334,054	18,826,296	22,254,296	17,499,079	11,150,419	8,198,701	4,871,139	1,240,244
	139,414,271	1,867,769	7,391,699	19,275,565	18,439,458	19,109,526	22,558,337	18,303,265	12,238,684	10,019,554	7,275,563	2,934,851
Hispanic. Male Female Mexican Male Female	31,337,161	721,505	2,745,603	5,982,424	5,470,190	5,230,172	4,748,231	2,914,649	1,679,035	1,101,735	554,434	189,183
	15,761,486	367,917	1,401,922	3,054,760	2,839,902	2,694,460	2,423,093	1,423,924	778,134	485,849	227,993	63,532
	15,575,675	353,588	1,343,681	2,927,664	2,630,288	2,535,712	2,325,138	1,490,725	900,901	615,886	326,441	125,651
	20,488,782	512,263	1,982,862	4,165,118	3,787,811	3,503,948	2,925,177	1,708,153	924,033	597,836	292,282	89,299
	10,548,482	261,059	997,510	2,151,110	2,004,072	1,838,773	1,530,723	876,699	450,397	271,914	132,653	33,572
	9,940,300	251,204	985,352	2,014,008	1,783,739	1,665,7175	1,394,454	831,454	473,636	325,922	159,629	55,727
Puerto Rican	2,945,172	60,495	231,465	544,553	505,575	451,306	439,630	317,737	193,064	127,288	62,256	11,803
	1,419,464	30,919	128,458	280,642	246,828	210,967	203,359	149,028	90,634	49,110	25,783	3,736
	1,525,708	29,576	103,007	263,911	258,747	240,339	236,271	168,709	102,430	78,178	36,473	8,067
	1,344,410	16,287	54,265	135,355	136,076	175,451	208,400	169,844	173,622	144,959	97,666	32,485
	646,862	7,260	17,640	72,174	66,202	86,250	112,076	82,361	86,336	75,189	31,530	9,844
	697,548	9,027	36,625	63,181	69,874	89,201	96,324	87,483	87,286	69,770	66,136	22,641
	6,558,797	132,460	477,011	1,137,398	1,040,728	1,099,467	1,175,024	718,915	388,316	231,652	102,230	55,596
	3,146,678	68,679	258,314	550,834	522,800	558,470	576,935	315,836	150,767	89,636	38,027	16,380
	3,412,119	63,781	218,697	586,564	517,928	540,997	598,089	403,079	237,549	142,016	64,203	39,216
Non-Hispanic ² . Male Female White Male Female Black Male Female Female	241,353,656	3,098,393	12,376,640	33,512,786	32,303,322	32,705,650	40,064,402	32,887,695	21,710,068	17,116,520	11,592,268	3,985,912
	117,515,060	1,584,212	6,328,622	17,164,885	16,494,152	16,131,836	19,831,203	16,075,155	10,372,285	7,712,852	4,643,146	1,176,712
	123,838,596	1,514,181	6,048,018	16,347,901	15,809,170	16,573,814	20,233,199	16,812,540	11,337,783	9,403,668	6,949,122	2,809,200
	196,049,405	2,366,680	9,504,139	25,662,188	25,019,655	25,667,506	32,639,082	27,600,764	18,598,444	14,945,247	10,450,220	3,595,480
	95,962,070	1,212,565	4,873,529	13,167,936	12,843,492	12,814,074	16,340,919	13,659,876	8,997,644	6,795,986	4,201,617	1,054,432
	100,087,335	1,154,115	4,630,610	12,494,252	12,176,163	12,853,432	16,298,163	13,940,888	9,600,800	8,149,261	6,248,603	2,541,048
	33,092,411	529,001	2,074,442	5,886,951	5,446,361	4,996,800	5,366,444	3,757,034	2,249,229	1,617,792	862,710	305,647
	15,674,062	268,703	1,051,490	2,988,505	2,731,741	2,360,779	2,507,837	1,699,897	971,148	681,338	322,995	89,629
	17,418,349	260,298	1,022,952	2,898,446	2,714,620	2,636,021	2,858,607	2,057,137	1,278,081	936,454	539,715	216,018

¹Includes Central and South American and Other and unknown Hispanic.

²Includes races other than white and black.

Table VII. Estimated population for ages 15 years and over by marital status, 10-year age groups, race, and sex: United States, 1999

Race, sex, and marital status	15 years and over	15–24 years	25–34 years	35–44 years	45–54 years	55–64 years	65–74 years	75 years and over
All races ¹	214,253,450	37,773,516	37,935,789	44,812,661	35,802,370	23,389,072	18,218,238	16,321,804
Never married	59,325,869	33,280,736	13,443,119	7,028,745	3,023,419	1,216,086	694,728	639,036
Ever married	154,927,581	4,492,780	24,492,670	37,783,916	32,778,951	22,172,986	17,523,510	15,682,768
Married	120,319,059	4,170,254	21,821,638	31,386,346	26,347,606	17,153,203	12,121,780	7,318,232
Widowed	14,703,589	14,013	92,354	404,593	874,824	1,818,109	3,848,043	7,651,653
Divorced	19,904,933	308,513	2,578,678	5,992,977	5,556,521	3,201,674	1,553,687	712,883
All races, 1 male	103,374,198	19,334,060	18,826,271	22,254,312	17,499,075	11,150,399	8,198,689	6,111,392
Never married	32,158,349	17,663,740	7,700,596	4,084,523	1,555,183	611.445	307,972	234,890
Ever married	71,215,849	1,670,320	11,125,675	18,169,789	15,943,892	10,538,954	7,890,717	5,876,502
Married	59,887,583	1,558,121	10,014,050	15,284,800	13,366,454	8,881,852	6,520,127	4,262,179
Widowed	2,697,871	1,205	17,991	104,440	174,507	319,701	710,507	1,369,520
Divorced	8,630,395	110,994	1,093,634	2,780,549	2,402,931	1,337,401	660,083	244,803
All races, 1 female	110,879,252	18,439,456	19,109,518	22,558,349	18,303,295	12,238,673	10,019,549	10,210,412
Never married	27,167,520	15,616,996	5,742,523	2,944,222	1,468,236	604,641	386,756	404,146
Ever married	83,711,732	2,822,460	13,366,995	19,614,127	16,835,059	11,634,032	9,632,793	9,806,266
Married	60,431,476	2,612,133	11,807,588	16,101,546	12,981,152	8,271,351	5,601,653	3,056,053
	, ,			300,153	700,317			, ,
Widowed	12,005,718 11,274,538	12,808	74,363	,		1,498,408	3,137,536	6,282,133
Divorced	11,274,538	197,519	1,485,044	3,212,428	3,153,590	1,864,273	893,604	468,080
White	178,473,363	30,014,708	30,431,387	36,946,548	30,249,543	20,133,641	15,958,634	14,738,902
Never married	44,853,837	26,047,748	9,676,554	4,926,191	2,188,638	915,291	536,697	562,718
Ever married	133,619,526	3,966,960	20,754,833	32,020,357	28.060.905	19,218,350	15,421,937	14.176.184
Married	104,652,644	3,693,245	18,538,676	26,783,108	22,788,468	15,158,095	10,910,637	6,780,415
Widowed	12,439,757	8,727	66,107	315,778	662,094	1,414,227	3,190,185	6,782,639
Divorced	16,527,125	264,988	2,150,050	4,921,471	4,610,343	2,646,028	1,321,115	613,130
White male	86,690,843	15,441,144	15,273,309	18,540,233	14,954,211	9,710,105	7,243,785	5,528,056
Never married	24,941,567	13,975,201	5,786,730	3,069,701	1,190,999	481,755	236,661	200,520
Ever married	61,749,276	1,465,943	9,486,579	15,470,532	13,763,212	9,228,350	7,007,124	5,327,536
Married	52,237,112	1,366,346	8,563,878	13,068,602	11,581,204	7,856,009	5,873,623	3,927,450
Widowed	2,247,711	846	17,414	80,029	132,439	244,324	577,045	1,195,614
Divorced	7,264,453	98,751	905,287	2,321,901	2,049,569	1,128,017	556,456	204,472
White female	91,782,520	,	,	18,406,315	15,295,332	10,423,536		9,210,846
		14,573,564	15,158,078				8,714,849	
Never married	19,912,270	12,072,547	3,889,824	1,856,490	997,639	433,536	300,036	362,198
Ever married	71,870,250	2,501,017	11,268,254	16,549,825	14,297,693	9,990,000	8,414,813	8,848,648
Married	52,415,532	2,326,899	9,974,798	13,714,506	11,207,264	7,302,086	5,037,014	2,852,965
Widowed	10,192,046	7,881	48,693	235,749	529,655	1,169,903	2,613,140	5,587,025
Divorced	9,262,672	166,237	1,244,763	2,599,570	2,560,774	1,518,011	764,659	408,658
Black	25,833,663	5,740,427	5,286,661	5,652,362	3,928,525	2,345,107	1,678,490	1,202,091
Never married	11,191,899	5,401,212	2,830,960	1,776,005	713,843	271,582	136,849	61,448
Ever married	14,641,764	339,215	2,455,701	3,876,357	3,214,682	2,073,525	1,541,641	1,140,643
Married	9,986,018	307,153	2,093,204	2,914,336	2,237,024	1,268,666	810,750	354,885
Widowed	1,835,077	2,256	24,685	72,818	173,022	330,517	527,831	703,948
Divorced	2,820,669	29,806	337,812	889,203	804,636	474,342	203,060	81,810
Black male	11,971,816	2,881,630	2,505,282	2,653,699	1,783,711	1,014,651	707,518	425,325
Never married	5,475,863	2,750,533	1,374,466	830,959	315,717	116,805	62,027	25,356
Ever married	6,495,953	131,097	1,130,816	1,822,740	1,467,994	897,846	645,491	399,969
Married	4,962,125	122,449	975,428	1,418,674	1,128,887	659,012	441,587	216,088
Widowed	381,222	0	0	20,097	39,804	60,441	111,753	149,127
Divorced	1,152,606	8,648	155,388	383,969	299,303	178,393	92,151	34,754
Black female	13,861,847	2,858,797	2,781,379	2,998,663	2,144,814	1,330,456	970,972	776,766
Never married	5,716,036	2,650,679	1,456,494	945,046	398,126	154,777	74,822	36,092
Ever married	8,145,811	208,118	1,324,885	2,053,617	1,746,688	1,175,679	896,150	740,674
Married	5,023,893	184,704	1,324,665	1,495,662	1,746,686	609,654	369,163	138,797
Widowed								
	1,453,855	2,256	24,685	52,721	133,218	270,076	416,078	554,821
Divorced	1,668,063	21,158	182,424	505,234	505,333	295,949	110,909	47,056

¹Includes races other than white and black.

SOURCE: Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division, U.S. Bureau of the Census.

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 to the U.S. standard population.

Beginning with the 1999 data year, a new population standard was adopted by NCHS for use in age-adjusting death rates. Based on the year 2000 projected population of the United States, the new

standard replaces the 1940 standard population that had been used for over 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 comparison of mortality. For detailed discussion see *Age Standardization of Death Rates: Implementation of the Year 2000 Standard* (7).

Table VIII. Estimated population for ages 25-64 years, by educational attainment and sex: Total of 46 reporting States and the District of Columbia, 1999

	25-64	25-34	35-44	45 -5 4	55-64
Years of school completed and sex	years	years	years	years	years
Both sexes	134,833,509	36,084,064	42,608,999	33,842,243	22,298,203
Under 12 years	17,266,667	4,433,942	4,933,222	3,819,020	4,080,483
12 years	44,118,610	11,032,314	14,373,871	10,601,169	8,111,256
13 or more years	73,448,232	20,617,808	23,301,906	19,422,054	10,106,464
Male	66,309,181	17,920,066	21,187,418	16,562,700	10,638,997
Under 12 years	8,790,283	2,371,126	2,629,132	1,855,186	1,934,839
12 years	21,261,941	5,762,296	7,282,051	4,733,429	3,484,165
13 or more years	36,256,957	9,786,644	11,276,235	9,974,085	5,219,993
	68,524,328	18,163,998	21,421,581	17,279,543	11,659,206
Under 12 years	8,476,384	2,062,816	2,304,090	1,963,834	2,145,644
12 years	22,856,669	5,270,018	7,091,820	5,867,740	4,627,091
13 or more years	37.191.275	10.831.164	12,025,671	9.447.969	4,886,471

SOURCE: Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Divsion, U.S. Bureau of the Census.

Table IX. Estimated population for the United States, each division, each State, Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas, 1999

Area	Total	Area	Total
United States	272,690,813	East South Central	16,582,841
		Kentucky	3,960,825
New England	13,495,933	Tennessee	5,483,535
Maine	1,253,040	Alabama	4,369,862
New Hampshire	1,201,134	Mississippi	2,768,619
Vermont	593.740	West South Central	30,325,593
Massachusetts	6,175,169	Arkansas	2,551,373
Rhode Island	990,819	Louisiana	4,372,035
Connecticut	3.282.031	Oklahoma	3,358,044
Middle Atlantic	38.334.029	Texas	20,044,141
New York	18,196,601	Mountain	17,127,479
New Jersey	8,143,412	Montana	882,779
Pennsylvania	11,994,016	Idaho	1,251,700
East North Central	44,442,146	Wyoming	479,602
Ohio	11,256,654	Colorado	4,056,133
Indiana	5,942,901	New Mexico	1,739,844
Illinois	12,128,370	Arizona	4,778,332
Michigan	9.863.775	Utah	2,129,836
Wisconsin	5,250,446	Nevada	1,809,253
Vest North Central	18,800,138	Pacific	44,022,633
Minnesota	4.775.508	Washington	5,756,361
lowa	2,869,413	Oregon	3,316,154
Missouri	5,468,338	California.	33,145,121
North Dakota	633,666	Alaska	619,500
South Dakota	733,133	Hawaii	1.185.497
Nebraska	1,666,028	Tiarrain	1,100,101
Kansas	2,654,052	Puerto Rico	3,889,507
South Atlantic	49,560,021	Virgin Islands	119,615
Delaware	753.538	Guam	151,968
Maryland	5,171,634	American Samoa	63,781
District of Columbia	519,000	Northern Marianas	69,216
Virginia	6,872,912		00,=.0
West Virginia	1,806,928		
North Carolina	7,650,789		
South Carolina	3,885,736		
Georgia	7,788,240		
Florida	15,111,244		

SOURCE: Unpublished Bureau of the Census file STRES991.txt.

All age-adjusted rates shown in this report are based on the year 2000 standard population. The year 2000 standard population and corresponding weights used for computing age-adjusted rates and relative standard errors (RSEs), excluding those by marital status, education, injury at work, and the U.S. territories, are shown in table X.

Age-adjusted rates by marital status were computed by applying the age-specific death rates to the U.S. standard population for ages 25 years and over. Although age-specific death rates by marital status are shown for the age group 15-24 years, they are not included in the calculation of age-adjusted rate because of their high

Table X. United States standard population: Numbers and proportions (weights)

Age	Number	Weights (w _i)
All ages	1,000,000	1.000000
Under 1 year	13,818	0.013818
1–4 years	55,317	0.055317
5–14 years	145,565	0.145565
15–24 years	138,646	0.138646
25–34 years	135,573	0.135573
35–44 years	162,613	0.162613
45–54 years	134,834	0.134834
55–64 years	87,247	0.087247
65–74 years	66,037	0.066037
75–84 years	44,842	0.044842
85 years and over	15,508	0.015508

variability, particularly among the widowed population. Also, the age groups 75–84 and 85 years and over are combined because of high variability in death rates in the 85 years and over age group, particularly for the never married population. The year 2000 standard population and corresponding weights used for computing age-adjusted rates and relative standard errors by marital status are shown in table XI.

Table XI. United States standard population for ages 25 years and over: Numbers and proportions (weights)

Age	Number	Weights (w _i)
25 years and over	646.654	1.000000
25–34 years	135,573	0.209653
35–44 years	162,613	0.251468
45–54 years	134,834	0.208510
55–64 years	87,247	0.134921
65–74 years	66,037	0.102121
75 years and over	60,350	0.093327

Age-adjusted rates by educational attainment were computed by applying the age-specific death rates to the U.S. standard population for ages 25–64 years. Data for age groups 65 years and over are not shown because reporting quality is poorer for older than for younger ages (46). The year 2000 standard population and corresponding weights used for computing age-adjusted rates and relative standard errors by education are shown in table XII.

Table XII. United States standard population for ages 25–64 years: Numbers and proportions (weights)

Age	Number	Weights (w _i)
25–64 years	520,267 135,573 162,613 134,834 87,247	1.000000 0.260584 0.312557 0.259163 0.167697

Age-adjusted rates for injury at work were computed by applying the age-specific death rates to the U.S. standard population for ages 15 years and over. The year 2000 standard population and corresponding weights used for computing age-adjusted rates and relative standard errors for injury at work are shown in table XIII.

Table XIII. United States standard population for ages 15 years and over: Numbers and proportions (weights)

Age	Number	Weights (w _i)
15 years and over	785,300	1.000000
15–24 years	138,646	0.176552
25–34 years	135,573	0.172638
35–44 years	162,613	0.207071
45–54 years	134,834	0.171697
55–64 years	87,247	0.111100
65 years and over	126,387	0.160941

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. Age groups for 75 years and over were combined because population counts were unavailable by age group for ages over 75 years. The year 2000 standard population and corresponding weights used for computing age-adjusted rates and relative standard errors for the territories are shown in table XIV.

Table XIV. United States standard population: Numbers and proportions (weights)

Age	Number	Weights (w _i)
All ages	1,000,000	1.000000
Under 1 year	13,818	0.013818
1–4 years	55,317	0.055317
5–14 years	145,565	0.145565
15–24 years	138,646	0.138646
25–34 years	135,573	0.135573
35–44 years	162,613	0.162613
45–54 years	134,834	0.134834
55–64 years	87,247	0.087247
65–74 years	66,037	0.066037
75 years and over	60,350	0.060350

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. It is important not to compare age-adjusted death rates with crude rates.

Death rates for the Hispanic population are based only on events to persons reported as Hispanic. Rates for non-Hispanic white persons are based on the sum of all events to white decedents reported as non-Hispanic and white decedents with origin not stated. Hispanic origin is not imputed if it is not reported.

Random variation

The mortality data 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-percent sample of deaths because of resource constraints. Mortality data, even based on complete counts, may be affected by random variation. Random variation is discussed for demographic data and cause-of-death data separately because of problems in comparing cause-of-death between ICD revisions.

Demographic data—When the number of events is small (perhaps less than 100) and the probability of such an event is small,

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considerable caution must be observed in interpreting the data. Such infrequent events may be assumed to follow a Poisson probability distribution. For this distribution, the relative standard error (RSE) is a measure of the variability. For computing RSEs in percent, this formula may be used for all tables except for the death rates shown in tables 4, 22, and 23 (see subsection below):

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

where

D = number of deaths

R = rate

Beginning with 1989 data, an asterisk is shown in place of a rate based on fewer than 20 deaths, which is the equivalent of an RSE(R) of 23 percent or more. A RSE(R) of 23 percent is considered statistically unreliable. For age-adjusted death rates, this criterion was based on the sum of the age-specific deaths. This same procedure is used in this report except for the death rates shown in tables 4, 22, and 23 (see subsection below).

For tables showing the number of deaths (D) (where D is 100 or more) the chances are 95 in 100 that

2.
$$D - \left(1.96 \cdot D \cdot \frac{\mathsf{RSE}(D)}{100}\right)$$
 and $D + \left(1.96 \cdot D \cdot \frac{\mathsf{RSE}(D)}{100}\right)$

cover the "true" number of deaths. This is referred to as a 95-percent confidence interval. For computing 95-percent confidence intervals when *D* is less than 100 deaths, see the NCHS Web site at http://www.cdc.gov/nchs and refer to "Technical Appendix from *Vital Statistics of United States: Mortality, 1999.*"

For tables showing a crude death rate (R) or an age-specific death rate (based on 100 or more deaths) for the ith age group (R_i) , except the rates in tables 4, 22, and 23, the chances are 95 in 100 that the actual rate falls within the confidence interval as computed using the following formula:

3.
$$R - \left(1.96 \cdot R \cdot \frac{\text{RSE}(R)}{100}\right)$$
 and $R + \left(1.96 \cdot R \cdot \frac{\text{RSE}(R)}{100}\right)$

For computing 95-percent confidence intervals for R when D is less than 100 deaths, see the Web site mentioned above.

For testing the difference between two rates (R_1 and R_2 , each based on 100 or more deaths), the following z-test may be used to define a significance test statistic:

4.
$$z = \frac{R_1 - R_2}{\sqrt{R_1^2 \left(\frac{\text{RSE}(R_1)}{100}\right)^2 + R_2^2 \left(\frac{\text{RSE}(R_2)}{100}\right)^2}}$$

If $|z| \ge 1.96$, then the difference is statistically significant at the 0.05 level and if z < 1.96, the difference is not significant. For computing statistical tests when R_1 and/or R_2 are based on less than 100 deaths, see the Web site mentioned above.

For tables showing an age-adjusted death rate (R'), except the rates in tables 4, 22, and 23, the RSEs in formulas 3 and 4 above would be substituted by this formula:

5. RSE(R') = 100
$$\frac{\sqrt{\sum \left\{w_i^2 R_i^2 \left(\frac{1}{D_i}\right)\right\}}}{R'}$$

where

 R_i = age-specific rate for the *i*th age group

 w_i = ith age-specific U.S. standard population such that $\sum (w_i)$ = 1.000000 (see table X and age-adjusted death rate under "Definition of terms")

 D_i = number of deaths for the *i*th age group

For tables showing an infant mortality rate (based on live births in the denominator), IMR, the RSEs in formulas 3 and 4 would be substituted by the following formula:

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

where

B = number of live births

For tables showing a maternal mortality rate (based on live births in the denominator), the RSEs in formulas 3 and 4 would be substituted with formula 6.

Tables 4, 22, and 23—Rates for Mexicans, Puerto Ricans, Cubans, and Other Hispanics in table 4, rates by marital status in table 22, and rates by educational attainment in table 23 are based on population estimates derived from the U.S. Bureau of the Census' Current Population Survey and adjusted to resident population control totals. As a result, the rates are subject to the variability of the denominator as well as the numerator. For tables 4, 22, and 23 the following RSE formulas were used to determine an RSE of 23 percent or more for the purpose of showing the rate or an asterisk.

For crude, R, and age-specific death rates, R_i

7. RSE(R) =
$$100\sqrt{\left(\frac{1}{\overline{D}}\right) + 0.67\left(a + \frac{b}{\overline{P}}\right)}$$

and for age-adjusted death rates, R',

8. RSE(R') = 100
$$\frac{\sqrt{\sum \left\{ w_i^2 R_i^2 \left[\left(\frac{1}{D_i} \right) + 0.67 \left(a + \frac{b}{P_i} \right) \right] \right\}}}{R'}$$

where

D = number of deaths

P = population estimate used for computing the rate (see table VI for population estimates used for computing rates in table 4; see table VII for population estimates used for computing rates in table 22; and see table VIII for population estimates used for computing rates in table 23)

 D_i = number of deaths for the *i*th age group

P_i = population estimate used for computing the ith agespecific death rate (see table VI for population estimates used for computing rates in table 4; see table VII for population estimates used for computing rates in table 22; and see table VIII for population estimates used for computing rates in table 23) w_i = age-specific U.S. standard population such that $\sum (w_i)$ = 1.000000 (see table X for weights (w_i) used for computing age-adjusted rates in table 4; see table XI for weights used for computing age-adjusted rates in table 22; and see table XII for weights used for computing age-adjusted rates in table 23)

 w_i^2 = the square of the age-specific U.S. standard population

In table 4, for all origins, total Hispanic, total non-Hispanic, non-Hispanic white, and non-Hispanic black populations,

$$a = 0.000000$$
 and $b = 0$

and for Mexican, Puerto Rican, Cuban, and Other Hispanic populations,

$$a = -0.000238$$
 and $b = 7,486$

In table 22, for all marital status groups combined for all races, white, and black populations,

$$a = 0.000000$$
 and $b = 0$,

for each marital status group for all races and the white population,

$$a = -0.000019$$
 and $b = 5.211$,

and for each marital status group for the black population,

$$a = -0.000213$$
 and $b = 7,486$

In table 23, for all education groups combined,

$$a = 0.000000$$
 and $b = 0$

and for each education group,

$$a = -0.000011$$
 and $b = 2.369$

The *a* and *b* parameters are averages of the 1998 and 1999 CPS standard error parameters (60,61).

To compute 95-percent confidence intervals and *z*-tests for the death rates (based on 100 or more deaths) shown in tables 4, 22, and 23, the RSE formulas 7 and 8 may be substituted, as appropriate, for the RSEs used in formulas 3 and 4.

Cause-of-death data—The calculation of measures of variability by cause of death take into account the variability of the comparability ratio modified 1998 data for comparison with the 1999 data. For additional information on the statistical tests below, please refer to A Guide to State Implementation of ICD—10 for Mortality, Part II: Applying Comparability Ratios (62) at the following Web site: http://www.cdc.gov/nchs/datawh/statab/unpubd/comp.htm.

Two issues arise in the analysis of mortality data across the boundary of two ICD revisions (ICD-9 and ICD-10):

- 1. data presentation and analysis
- statistical tests to ascertain whether the change in mortality between the last year of the old revision (1998) and the first year of the new revision (1999) is a statistically significant change

Table 8 presents death rates for the 15 leading causes of death in 1999 according to ICD-10, compared with death rates for 1998 for the most nearly comparable ICD-9 titles (tables I and II) multiplied by the ICD-10:ICD-9 comparability ratios (comparability-modified death rates). Also shown are the 1998 rates that are not comparability-modified for the same 15 leading causes.

The second issue is determining whether the change in death rates between 1998 and 1999 was statistically significant, taking into account comparability. This is accomplished in a manner similar to statistical analysis of mortality trends within the same revision (8), but

incorporating into the comparisons and the statistical tests explicit regard for comparability. This section focuses on presenting methods for analyzing differences in mortality *between* revisions. The key difference is that the latter analysis must take explicitly into account comparability ratios that measure the quantitative impact of the new revisions on causes of death.

Formulas shown below address the general problem of evaluating differences between two population-based death rates estimated for successive years, between revisions of the ICD. Rates used throughout the section are specific for cause of death. Rates computed using data from an initial year (R_1) are assumed to be based on ICD–9, while those for the following year (R_2) are assumed to be based on ICD–10. A comparability ratio (C) measures the level of agreement between classification systems. The cause-specific comparability ratio will be applied to R_1 to adjust for the change in the way these deaths were classified for the later revision compared with the earlier revision. In addition to 1998 mortality data, this factor (C) should also be applicable to at least 1994, 1995, 1996, and 1997. The comparability ratio needs to be considered in statistical tests that compare the changes in rates from one year to a subsequent one between revisions.

In applying the formulas, distinctions should be made for cases involving large (100 or more) and small (1–99) numbers of deaths. All formulas in this section are for cases involving large numbers of deaths (100 or more). Formulas for constructing 95 percent confidence intervals for small numbers of deaths are shown in the publication mentioned above (62).

The general formula for obtaining (estimated) RSE's for a point-estimate, θ (like a comparability ratio), is the following:

9. RSE(
$$\hat{\theta}$$
) = 100 $\frac{S(\hat{\theta})}{\hat{\theta}}$ where

 $S(\theta)$ = standard error of Theta

The estimated RSE for an age-specific death rate or a crude death rate is given by the formula below:

10. RSE(R) = RSE(D) =
$$100 \sqrt{\frac{1}{D}}$$

R = the cause-specific death rate produced by dividing the number of deaths attributed to a given cause at a given time by the population-at-risk for that same time period

D = the estimated number of deaths due to a given cause on a given time

The following procedures for constructing approximate 95 percent confidence intervals are ordered depending on whether the death rate was computed based on the recently introduced ICD-10 revision or on the previous (ICD-9) revision, respectively. The rate based on the ICD-9 revision is adjusted by the application of a cause-specific comparability ratio.

For an age-specific or crude death rate based on the ICD-10 revision, the 95 percent confidence interval may be captured as follows:

11. Lower limit:
$$R_2 - \left(1.96 \cdot R_2 \cdot \frac{\text{RSE}(R_2)}{100}\right)$$

12. Upper limit:
$$R_2 + \left(1.96 \cdot R_2 \cdot \frac{RSE(R_2)}{100}\right)$$

For an age-specific or crude death rate based on the ICD-9 revision, the 95 percent confidence interval may be captured as follows:

13. Lower limit:
$$C \cdot R_1 - \left(1.96 \cdot C \cdot R_1 \cdot \frac{\mathsf{RSE}(C \cdot R_1)}{100}\right)$$

14. Upper limit:
$$C \cdot R_1 + \left(1.96 \cdot C \cdot R_1 \cdot \frac{\mathsf{RSE}(C \cdot R_1)}{100}\right)$$

where

 R_2 = death rate (per 100,000) computed for data year under ICD-10

C = ICD-10:ICD-9 comparability ratio specific for the cause-of-death of interest

 R_1 = death rate (per 100,000) computed for data year under ICD-9

Let us suppose that the respective ICD-9 and ICD-10 death rates for a cause of death were 11.7 (R_1) and 6.2 (R_2) per 100,000 population. The ICD-10:ICD-9 comparability ratio (C) obtained for this cause was 1.0600. Its standard error, S(C), is 0.0096.

Assume that the numbers of deaths for this cause were 31,130 for ICD–9 and 16,516 for ICD–10. By inserting the number of deaths (D) into formula 10, we obtain the RSEs for both yearly rates: 0.5668 for the ICD–9 rate and 0.7781 for the ICD–10 rate [RSE(R_1) and RSE(R_2), respectively].

By inserting the comparability ratio and its standard error into Formula 9, we obtain RSE(C) = (0.0096 / 1.0600) • 100 = 0.9057.

Since we wish to modify the ICD–9 rate (R_1) to compensate for the difference in classification systems, we must multiply this rate times the comparability ratio $C \cdot R_1 = 12.40$. To obtain the standard error of this modified ICD–9 rate, $S(C \cdot R_1)$, we must refer to Formula 17. This formula requires knowing the RSEs for the ICD–9 rate and for the comparability ratio. By substituting these values into the formula, we have that RSE $(C \cdot R_1) = 1.0684$.

Lower 95-percent confidence interval limit for $C \cdot R_1 = 12.40 - (1.96 \cdot 0.1325) = 12.14$.

Upper 95-percent confidence interval limit for $C \cdot R_1 = 12.40 + (1.96 \cdot 0.1325) = 12.66$.

Lower 95-percent confidence interval limit for $R_2 = 6.2 - (1.96 \cdot 0.0482) = 6.10$.

Upper 95-percent confidence interval limit for $R_2 = 6.2 + (1.96 \cdot 0.0482) = 6.29$.

For testing the difference between two rates (R_1 and R_2 , each based on 100 or more deaths), the following z-test that considers the use of a comparability ratio applied to ICD-9 death rates, may be used to define a significance test statistic:

$$\frac{15. \quad z = \frac{C \cdot R_1 - R_2}{\sqrt{C^2 \cdot R_1^2 \left[\frac{|\mathsf{RSE}(R_1)|^2}{100} + \frac{|\mathsf{RSE}(C)|^2}{100} \cdot \left[1 + \frac{|\mathsf{RSE}(R_1)|^2}{100} \right] \right] + R_2^2 \left[\frac{|\mathsf{RSE}(R_2)|^2}{100} \right]}}$$

where

C = ICD-10:ICD-9 comparability ratio for the specific cause category

 R_1, R_2 = cause-specific death rates based on ICD-9 and ICD-10 years, respectively

 $RSE(R_1)$ = relative standard error of the ICD-9 cause-specific death rate

 $RSE(R_2)$ = relative standard error of the ICD-10 cause-specific death rate

RSE(C) = relative standard error of the ICD-10:ICD-9 comparability ratio specific for the cause of death

If $|z| \ge 1.96$, then the difference is statistically significant at the 0.05 level and if z < 1.96, the difference is not significant. For computing statistical tests when R_1 and/or R_2 are based on less than 100 deaths, see *A Guide to State Implementation of ICD-10 for Mortality, Part II: Applying Comparability Ratios* (62).

For tables showing an age-adjusted death rate, (R'), the RSE in formula 5 above would be substituted by this formula:

16. RSE(
$$R'_2$$
) = 100 $\sqrt{\sum \left[w_i^2 \cdot R_{i2}^2 \left(\frac{1}{D_{i2}}\right)\right]}$

where

R'₂ = age-adjusted death rate for a specific cause of interest, based on ICD-10

i = each age group

 R_{i2} = age-specific death rate for the *i*th age group (ICD-10

 w_i = *i*th age-specific U.S. Standard Population weight such that $\sum w_i = 1.000000$

 D_{i2} = number of deaths for the *i*th age group (ICD-10 file) attributed to the cause of interest

 C_i 's are treated as constants in this report ($C_i = C$). Assuming that we have both an age-specific rate and comparability ratio, we may proceed to compute the RSE for C_iR_{i1} for each age group. This is the first of two steps necessary for obtaining the RSE of an age-adjusted rate based on ICD–9 data that has been modified through a comparability ratio, R'_1 . For an age-specific comparability ratio and death rate based on the ICD–9 revision, the RSE can be calculated as follows:

17.
$$RSE(C_i \cdot R_{i1}) = 100 \sqrt{\left|\frac{RSE(R_{i1})}{100}\right|^2 + \left|\frac{RSE(C_i)}{100}\right|^2 \left[1 + \left|\frac{RSE(R_{i1})}{100}\right|^2\right]}$$

where

C_i = age-specific comparability ratio for the cause of interest

 R_{i1} = age-specific death rate for the ith age group (ICD-9 file)

Let $R''_1 = \sum w_i C_i R_{i1}$. The RSE for R''_1 would incorporate all 11 values (corresponding to each age group) computed through the

previous formula. For age-adjusted and comparability-modified death rates based on the ICD-9 revision, the RSE can be calculated as follows:

18. RSE(R''₁) = 100
$$\frac{\sqrt{\sum \left[w_i^2(C_iR_{i1})^2 \cdot \left(\frac{\text{RSE}(C_iR_{i1})}{100}\right)^2\right]}}{R''_{1}}$$

where

R"₁= age-adjusted death rate for a specific cause of interest based on ICD-9 data and modified by a comparability ratio

The following procedures for constructing approximate 95 percent confidence intervals are ordered depending on whether the age-adjusted death rate was computed based on the recently introduced ICD-10 revision or on the previous (ICD-9) revision, respectively. The rate based on the ICD-9 revision is adjusted by the application of a cause-specific comparability ratio.

For an age-adjusted death rate based on the ICD-10 revision, the 95 percent confidence interval may be captured as follows:

19. Lower limit:
$$R'_2 - \left(1.96 \cdot R'_2 \cdot \frac{RSE(R'_2)}{100}\right)$$

20. Upper limit:
$$R'_2 + \left(1.96 \cdot R'_2 \cdot \frac{RSE(R'_2)}{100}\right)$$

For an age-adjusted and comparability-modified death rate based on the ICD-9 revision, the 95 percent confidence interval may be captured as follows:

21. Lower limit:
$$R''_1 - \left(1.96 \cdot R''_1 \cdot \frac{RSE(R''_1)}{100}\right)$$

22. Upper limit:
$$R''_1 + \left(1.96 \cdot R''_1 \cdot \frac{RSE(R''_1)}{100}\right)$$

where

 R'_2 = age-adjusted death rate (per 100,000) computed for data year under ICD-10

R''₁= age-adjusted death rate (per 100,000) computed for data year under ICD-9

Availability of mortality data

Mortality data are available in publications, unpublished tables, and electronic products as described on the NCHS Web site at the following address: http://www.cdc.gov/nchs. The data are available on data tapes from the National Technical Information Service (NTIS) and on CD-ROM from NTIS and the Government Printing Office (GPO). Data are also available in the Vital Statistics of the United States, Mortality, and Vital and Health Statistics, Series 20 reports, and the National Vital Statistics Reports through NCHS.

Definitions of terms

Infant deaths—Deaths of infants aged under 1 year.

Neonatal deaths—Deaths of infants aged 0–27 days. Postneonatal deaths—Deaths of infants aged 28 days–1 year.

Crude death rate—Total deaths per 100,000 population for a specified period. The crude death 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 years or 5–9 years 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 as direct or actual measure of mortality risk. Statistically, it is a weighted average of the age-specific death rates, where the weights represent the fixed population proportions by age (63).

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Suggested citation

Hoyert DL, Arias E, Smith BL, Murphy SL, Kochanek KD. Deaths: Final Data for 1999. National vital statistics reports; vol 49 no 8. Hyattsville, Maryland: National Center for Health Statistics. 2001.

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Centers for Disease Control and Prevention National Center for Health Statistics 6525 Belcrest Road Hyattsville, Maryland 20782-2003

DHHS Publication No. (PHS) 2001-1120 PRS 01-0573 (9/2001)

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