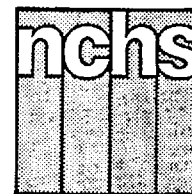


# Monthly Vital Statistics Report



Final Data From the National Center for Health Statistics

## Advance Report of Final Mortality Statistics, 1987

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### Highlights

In 1987, 2,123,323 deaths were registered in the United States, 17,962 more than in 1986 and the largest annual final number ever recorded. Contributing to the increased number of deaths were population growth and the "aging" of the U.S. population, that is, the increasing proportion of older persons. The death rate for 1987 was 872.4 deaths per 100,000 population, about the same as the rate of 873.2 in 1986. Provisional data for 1988 indicate the death rate (883.0) to be up from 1987.

The age-adjusted death rate, which eliminates the effects of the aging of the population, was 535.5 per 100,000

population, lower than the rate of 541.7 in 1986. The age-adjusted rate decreased for the white population but remained essentially unchanged for the black population between 1986 and 1987. The rates decreased for white males and white females, although more for males; rates for black males and black females were essentially the same for the 2 years. For males and females of most age groups, death rates declined between 1986 and 1987. Exceptions were for males aged 35-44 years and females aged 25-34 years for whom rates increased.

In 1987 life expectancy at birth reached a record high of 75.0 years, slightly higher than in 1986. For the white population, it also attained a record; but for the black population, it remained at the 1986 level of 69.4 years, after declining during 1984-86. Although the difference in life expectancy for males and females has narrowed since the late 1970's, women are still expected to outlive men by an average of 6.9 years. Between the white and black populations, the difference in life expectancy generally has been narrowing; however, the difference has increased since 1984, from 5.6 to 6.2 years in 1987.

As in previous years, almost three out of four deaths in the United States were caused by the first four leading

causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (cancer); Cerebrovascular diseases (stroke); and Accidents and adverse effects. The age-adjusted death rates for the six leading causes of death declined between 1986 and 1987. The age-adjusted death rate for cancer declined slightly between 1986 and 1987 for the second consecutive year; this is in contrast to the historic upward trend for this, the second leading cause of death in the United States. The age-adjusted death rate for Motor vehicle accidents—a component of Accidents and adverse effects—increased slightly between 1986 and 1987 for the second consecutive year. Mortality from Homicide and legal intervention, the 12th leading cause, decreased more than for any of the other leading causes of death between 1986 and 1987, by 4 percent; this contrasts with the general increase in mortality from this cause since 1980. Human immunodeficiency virus (HIV) infection was the 15th leading cause of death in 1987. This was the first year that deaths from HIV infection were included as a rankable cause of death. The age-adjusted death rate for drug-related causes remained essentially unchanged between 1986 and 1987.

Males experienced higher mortality than females for each of the 15 leading

causes of death. The greatest sex differential was for HIV infection, where the age-adjusted rate for males was 9.1 times that for females. The smallest sex differential was for Diabetes mellitus, with a male-to-female ratio of 1.1.

The black population had higher rates than the white population for most of the leading causes of death. The largest race differential continued to be for Homicide and legal intervention, for which the age-adjusted rate for the black population was 6.0 times that of the white population. The two leading causes that had lower rates for the black population were Chronic obstructive pulmonary diseases and allied conditions and Suicide. In 1987 for the Hispanic population, the two leading causes of death were Diseases of heart and Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, the same as for the non-Hispanic white population in the 18-State Hispanic reporting area. (See Technical notes.)

The infant mortality rate (10.1 infant deaths per 1,000 live births) was at a record low in 1987. The rate declined for the white population, but the change between 1986 and 1987 for the black population was not statistically significant. For both the white and black populations, the downward trend in infant mortality has slowed in recent years. Neonatal mortality rates showed a statistically significant decline between 1986 and 1987 for the white population, while remaining at the same level for the black population; there were no statistically significant changes in postneonatal mortality rates for either major race group between 1986 and 1987. The difference between the infant mortality rate for the Hispanic population in 1987 (7.9) and that for the non-Hispanic white population (8.4) in the 18-State reporting area was statistically significant.

## Deaths and death rates

Death rates shown in this report are based on population estimates prepared by the U.S. Bureau of the Census. Because the population bases used for 1984, 1985, 1986, and 1987 incorporate new estimates of net migration and

net undocumented immigration, death rates for these years are not strictly comparable with those for previous years. Although trends in death rates for the total population are not substantially affected, caution should be used in comparing differences in death rates for the period 1984–87 with those of previous years for certain age-race-sex subgroups. For further discussion, see the Technical notes.

In 1987 a total of 2,123,323 deaths occurred in the United States, 17,962 more than in 1986 and the largest final number ever recorded. Contributing to the increased number of deaths were the continued increase in the size of the population as well as the increasing proportion of older persons. In contrast to the two previous years, 1987 was not characterized by a major influenza outbreak, which is often associated with elevated mortality (1). The death rate for 1987, 872.4 per 100,000 population, was essentially the same as the rate for 1986 (873.2). The provisional death rate for 1988 (883.0) was up from 1987.

The age-adjusted death rate of 535.5 deaths per 100,000 population in 1987 was a record low, about 1 percent below the rate for 1986 (541.7) (figure 1). Age-adjusted death rates show what the level of mortality would be if there were no changes in the age composition of the population from year to year. Thus, they are better indicators than unadjusted death rates for showing changes in the risk of death over a period of time when the age distribution of the population is changing. They are also better indicators of

risk when comparisons of mortality are being made for sex or race subgroups of the population that have different age compositions.

*Death rates by age, sex, and race*—For both sexes combined, death rates declined for most age groups between 1986 and 1987 (table A). They declined for each age group except 25–34 and 35–44 years, which had increases of 1 percent each. The largest decline (3 percent) occurred for the age group 15–24 years.

For males the increase in death rates between 1986 and 1987 for ages 35–44 years (1 percent) continued the increase begun between 1983 and 1984, a reversal of the downward trend for this age group since the late 1960's (figure 2 and table A). For males aged 25–34 years death rates remained essentially unchanged between 1986 and 1987, compared with large increases in previous years. For males aged under 1 and 45–54 and 65–74 years, declines in death rates continued. For females, all age groups, except 25–34 years, experienced declines in death rates. The 3-percent increase for females aged 25–34 years continued the trend started in 1985. The largest decline for females was for ages 5–14 years (4.5 percent).

Age-adjusted death rates for white males and white females declined between 1986 and 1987—by 2 percent for white males, and by 1 percent for white females. In contrast, for black males and black females the age-adjusted death rate remained about the same between the two years. In 1987 the age-adjusted death rate for males of all

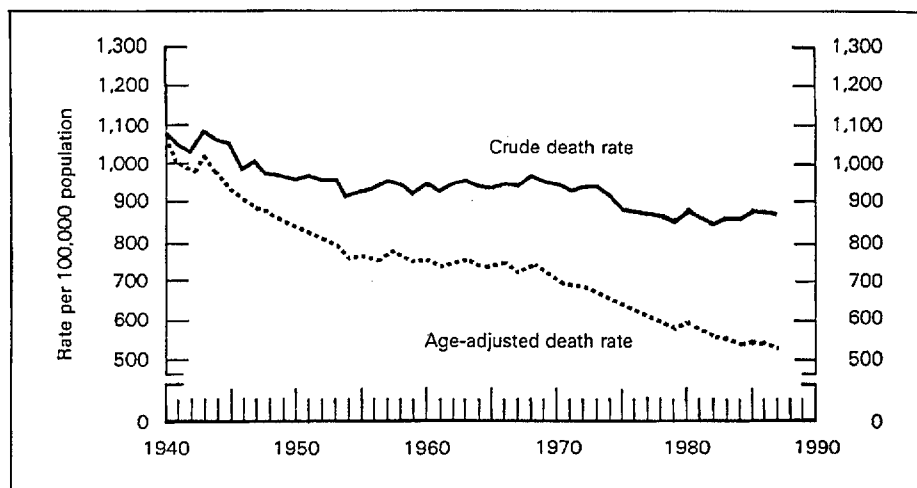


Figure 1. Crude and age-adjusted death rates: United States, 1940–87

Table A. Percent change in death rates between 1986 and 1987 by age and sex: United States

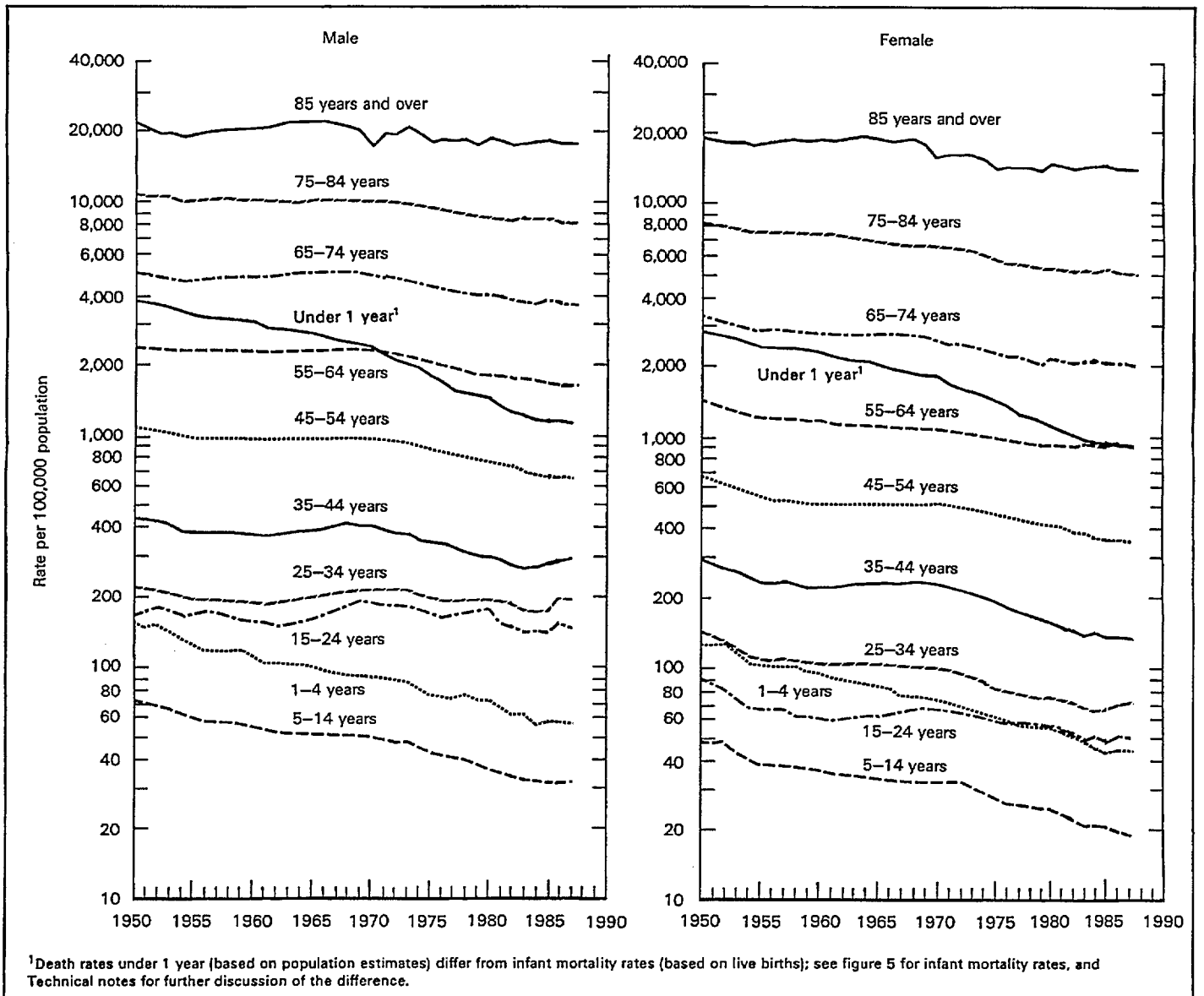
Age	Total	Male	Female
	Percent change		
All ages . . . . .	-0.1	-0.6	0.5
Under 1 year <sup>1</sup> . . . . .	-1.3	-2.1	-0.4
1-4 years . . . . .	-0.8	-0.7	-0.9
5-14 years . . . . .	-1.5	0.6	-4.5
15-24 years . . . . .	-2.8	-3.5	-1.1
25-34 years . . . . .	0.8	-0.1	3.1
35-44 years . . . . .	0.6	1.3	-0.9
45-54 years . . . . .	-1.3	-1.4	-1.4
55-64 years . . . . .	-1.1	-1.4	-0.6
65-74 years . . . . .	-1.8	-2.3	-1.3
75-84 years . . . . .	-1.0	-1.5	-0.7
85 years and over . . . . .	-0.5	-0.9	-0.3

<sup>1</sup>Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see table E for 1987 infant mortality rates, and Technical notes for further discussion of the difference.

rates was 1.7 times that for females, similar to the ratio in 1986. This ratio between male and female age-adjusted death rates was the same for the white and black populations. As in the past 4 years, the age-adjusted death rate for the black population in 1987 was 1.5 times that for the white population.

**Expectation of life at birth and at specified ages**

In 1987 the average expectation of life at birth reached a record high of 75.0 years (figure 3). This continued the general upward trend in life expectancy in the United States.



<sup>1</sup>Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see figure 5 for infant mortality rates, and Technical notes for further discussion of the difference.

Figure 2. Death rates by age and sex: United States, 1950-87

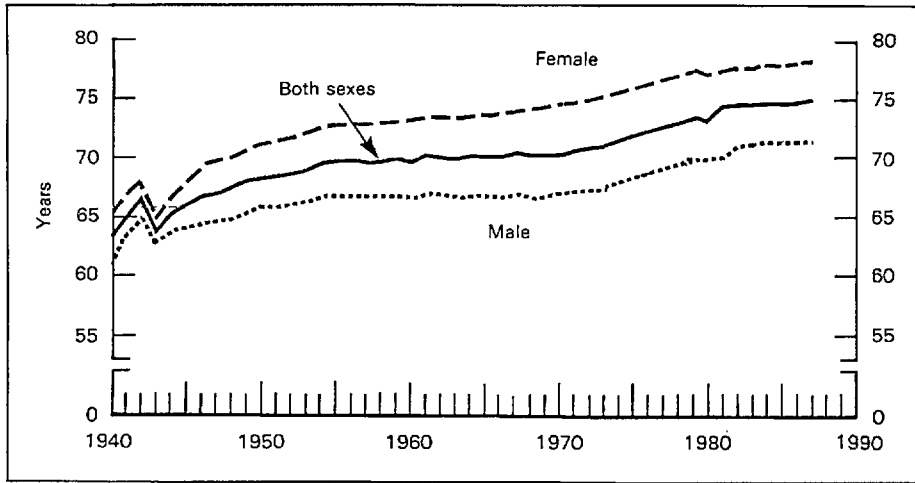


Figure 3. Life expectancy by sex: United States, 1940-87

The expectation of life at birth for 1987 represents the average number of years that a group of infants would live if they were to experience throughout life the age-specific death rates prevailing in 1987. In 1987 life expectancy for females was 78.4 compared with 71.5 years for males; both figures represent increases over 1986. The difference in life expectancy between the sexes, which had been widening from 1900 to 1972, has narrowed since 1979. The difference was 6.9 years in 1987 compared with 7.0 years in 1986, 7.4 years in 1980 and 1981, 7.7 and 7.8 years throughout the period 1972-79, 6.5 years in 1960, and 2.0 years in 1900.

Between 1986 and 1987 the white population experienced an increase in life expectancy, to a record high of 75.6 years, while the black population experienced no increase, with life expectancy remaining at 69.4 years. This stops the 2-year decline in black life expectancy that occurred from 1984 to 1986. While the difference in life expectancy between the white and black populations narrowed from 7.6 years in 1970 to 5.6 years in 1983 and 1984, it has increased since then, to 6.0 years in 1986 and 6.2 years in 1987.

Among the four race-sex groups, white females continued to have the highest life expectancy at birth (78.9 years), followed by black females (73.6 years), white males (72.2 years), and black males (65.2). The largest gain in life expectancy between 1970 and 1987 was for black females (5.3 years),

followed by black males (5.2 years), white males (4.2 years), and white females (3.3 years).

The 1987 life table may be used to compare life expectancies at any age from birth onward. For example, a person who has reached age 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 1987, a person aged 50 years could expect to live an average of 28.6 more years for a total of 78.6 years, and a person aged 65 years could expect to live an average of 16.9 more years for a total of 81.9 years.

### Cause of death

Deaths assigned to the 15 leading causes accounted for 87 percent of the total number of deaths in 1987 (table B). (For ranking procedures, see Technical notes.) The ranking of the leading causes of death for 1987 remained unchanged for the first 14 causes of death based on data for 1986. The 15th leading cause of death in 1986, Congenital anomalies, was replaced by Human immunodeficiency virus infection (HIV infection), which, for the first time, was a rankable cause of death (see Technical notes and the section below on HIV infection).

Trends in mortality based on age-adjusted death rates are shown in figure 4 and table C for 14 of the 15 leading causes. Because deaths from Certain conditions originating in the perinatal period occur mainly among infants under 1 year, age-adjusted rates for this cause are not discussed.

For 11 of the leading causes of death the age-adjusted death rates decreased between 1986 and 1987 (table C). These causes were Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Cerebrovascular diseases; Accidents and adverse effects; Chronic obstructive pulmonary diseases and allied conditions; Pneumonia

Table B. Death rates and percent of total deaths for the 15 leading causes of death: United States, 1987

[Rates per 100,000 population]

Rank <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Rate	Percent of total deaths
...	All causes . . . . .	872.4	100.0
1	Diseases of heart . . . . .	312.4	35.8
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	195.9	22.5
3	Cerebrovascular diseases . . . . .	61.6	7.1
4	Accidents and adverse effects . . . . .	39.0	4.5
...	Motor vehicle accidents . . . . .	19.8	2.3
...	All other accidents and adverse effects . . . . .	19.2	2.2
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	32.2	3.7
6	Pneumonia and influenza . . . . .	28.4	3.3
7	Diabetes mellitus . . . . .	15.8	1.8
8	Suicide . . . . .	12.7	1.5
9	Chronic liver disease and cirrhosis . . . . .	10.8	1.2
10	Atherosclerosis . . . . .	9.2	1.1
11	Nephritis, nephrotic syndrome, and nephrosis . . . . .	9.1	1.0
12	Homicide and legal intervention . . . . .	8.7	1.0
13	Septicemia . . . . .	8.2	0.9
14	Certain conditions originating in the perinatal period . . . . .	7.5	0.9
15	Human immunodeficiency virus infection . . . . .	5.5	0.6
...	All other causes . . . . .	115.4	13.2

<sup>1</sup>Rank based on number of deaths; see Technical notes.

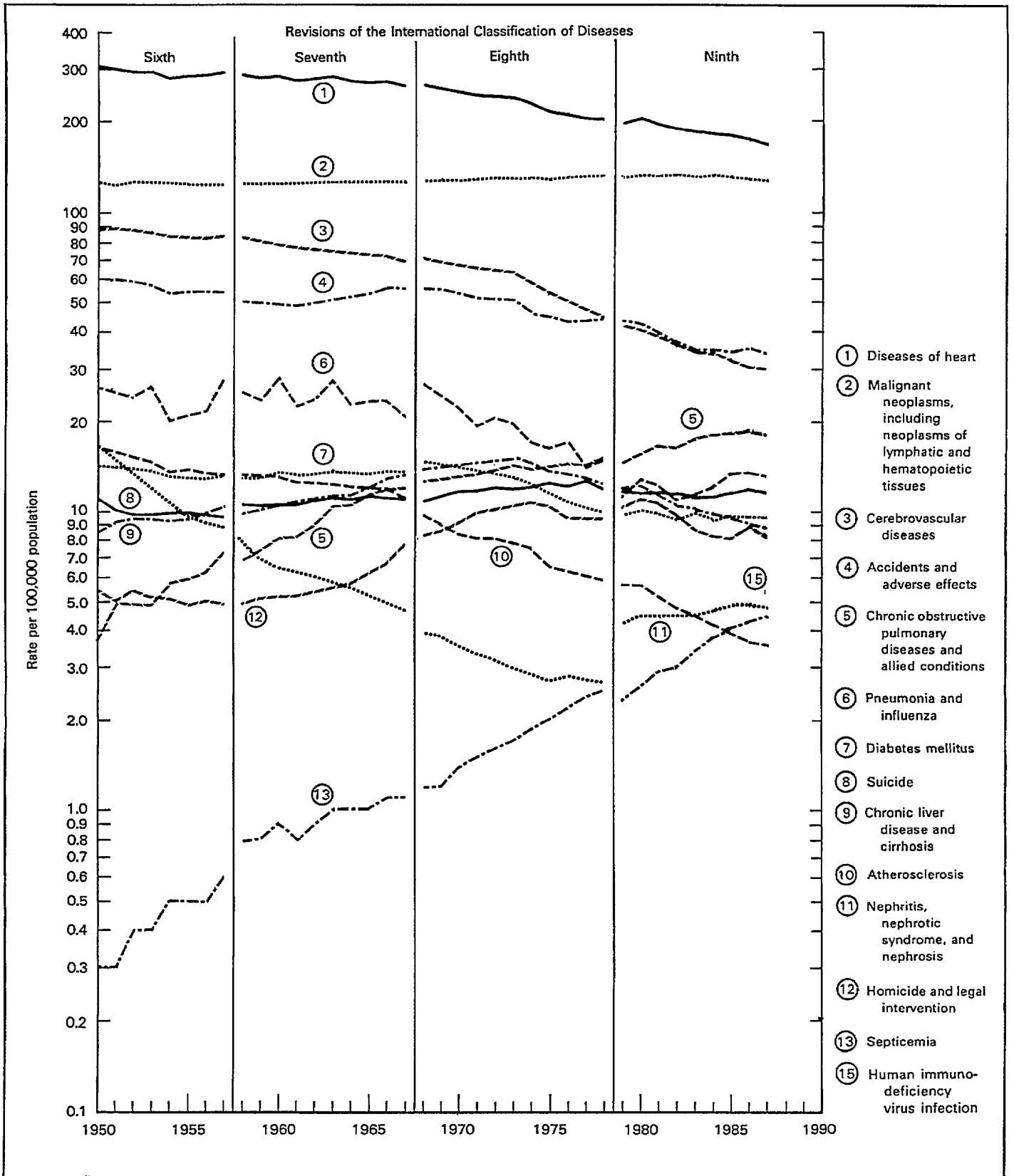


Figure 4. Age-adjusted death rates for 14 of the 15 leading causes of death: United States, 1950-87

Table C. Age-adjusted death rates for 1987 and percent changes in age-adjusted death rates for the 15 leading causes of death from 1986 to 1987 and 1979 to 1987: United States

[Rates per 100,000 population]

Rank <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Age-adjusted death rates for 1987	Percent change from—	
			1986 to 1987	1979 to 1987
...	All causes . . . . .	535.5	-1.1	-7.2
1	Diseases of heart . . . . .	169.6	-3.1	-15.0
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	132.9	-0.2	1.6
3	Cerebrovascular diseases . . . . .	30.3	-2.3	-27.2
4	Accidents and adverse effects . . . . .	34.6	-1.7	-19.3
	Motor vehicle accidents . . . . .	19.5	0.5	-15.9
	All other accidents and adverse effects . . . . .	15.2	-3.2	-22.4
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	18.7	-0.5	28.1
6	Pneumonia and influenza . . . . .	13.1	-3.0	17.0
7	Diabetes mellitus . . . . .	9.8	2.1	-
8	Suicide . . . . .	11.7	-1.7	-
9	Chronic liver disease and cirrhosis . . . . .	9.1	-1.1	-24.2
10	Atherosclerosis . . . . .	3.6	-2.7	-36.8
11	Nephritis, nephrotic syndrome, and nephrosis . . . . .	4.8	-2.0	11.6
12	Homicide and legal intervention . . . . .	8.6	-4.4	-15.7
13	Septicemia . . . . .	4.5	4.7	95.7
14	Certain conditions originating in the perinatal period <sup>2</sup> . . . . .	...	-2.2	-28.9
15	Human immunodeficiency virus infection . . . . .	5.5	---	---

<sup>1</sup>Rank based on number of deaths; see Technical notes.

<sup>2</sup>Inasmuch as deaths from this cause occur mainly among infants, percent changes are based on infant mortality rates instead of age-adjusted rates.

and influenza; Suicide; Chronic liver disease and cirrhosis; Atherosclerosis; Nephritis, nephrotic syndrome, and nephrosis; and Homicide and legal intervention. The largest declines were for Homicide and legal intervention (4 percent) and for Diseases of heart and Pneumonia and influenza (3 percent each). The declines for Diseases of heart, Cerebrovascular diseases, and Atherosclerosis are consistent with the generally downward trends observed since 1950. Chronic liver disease and cirrhosis has exhibited a downward trend since 1979. For the second consecutive year the age-adjusted death rate for Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues declined slightly. This is in contrast to the generally increasing trend for this cause observed since 1950. This decrease in the age-adjusted rate reflects declines in death rates for this cause for most age groups under 65 years.

Increases in the age-adjusted death rates between 1986 and 1987 occurred for only two of the leading causes of death—Diabetes mellitus and Septicemia. The largest increase, 5 percent, was for Septicemia, continuing the rapid rise observed for the past three decades (figure 4). The age-adjusted

death rate for Diabetes mellitus increased by 2 percent between 1986 and 1987, reaching the level of 1979. Trends for HIV infection mortality are not available because mortality data from this cause were available for the first time in 1987 (see Technical notes).

Mortality levels for each of the 15 leading causes of death were higher for males than for females (table D). The

largest differentials were for HIV infection, and violent and accidental causes of death. Specifically the age-adjusted death rate for HIV infection was 9.1 times as high for males as for females. Suicide and Homicide and legal intervention were 3.9 and 3.2 times, respectively, as high for males as for females, and the rate for Accidents and adverse effects was 2.7 times as high for males

Table D. Ratio of age-adjusted death rates for the 15 leading causes of death by sex and race: United States, 1987

Rank <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Ratio of—	
		Male to female	Black to white
...	All causes . . . . .	1.73	1.52
1	Diseases of heart . . . . .	1.89	1.38
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	1.47	1.32
3	Cerebrovascular diseases . . . . .	1.16	1.82
4	Accidents and adverse effects . . . . .	2.72	1.24
	Motor vehicle accidents . . . . .	2.55	0.90
	All other accidents and adverse effects . . . . .	2.96	1.73
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	2.04	0.81
6	Pneumonia and influenza . . . . .	1.77	1.46
7	Diabetes mellitus . . . . .	1.11	2.32
8	Suicide . . . . .	3.90	0.54
9	Chronic liver disease and cirrhosis . . . . .	2.32	1.77
10	Atherosclerosis . . . . .	1.28	1.06
11	Nephritis, nephrotic syndrome, and nephrosis . . . . .	1.54	2.76
12	Homicide and legal intervention . . . . .	3.22	6.00
13	Septicemia . . . . .	1.36	2.72
14	Certain conditions originating in the perinatal period <sup>2</sup> . . . . .	1.28	2.62
15	Human immunodeficiency virus infection . . . . .	9.09	3.23

<sup>1</sup>Rank based on number of deaths; see Technical notes.

<sup>2</sup>Inasmuch as deaths from this cause occur mainly among infants, ratios are based on infant mortality rates instead of age-adjusted death rates.

as for females. The smallest sex difference was for Diabetes mellitus, with a male-to-female ratio of 1.1.

For females the age-adjusted death rate for all causes combined declined slightly between 1986 and 1987. Decreases in rates occurred for the first three leading causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; and Cerebrovascular diseases—and for Pneumonia and influenza; Atherosclerosis; and Nephritis, nephrotic syndrome, and nephrosis. The decreases were offset, in part, by increases in rates for other leading causes, among which were Chronic obstructive pulmonary diseases and allied conditions, Accidents and adverse effects, and Septicemia. Of the leading causes of death, Septicemia had the largest increase in mortality between 1986 and 1987 for women; the age-adjusted death rate from this cause increased 8 percent. Age-adjusted rates for Diabetes mellitus were the same in 1986 and 1987. Increases in mortality for females aged 25–34 years between 1986 and 1987 described earlier were due to increases for the categories All other infectious and parasitic diseases (largely HIV infection); Motor vehicle accidents; and Symptoms, signs, and ill-defined conditions.

For males the age-adjusted death rate for all causes combined also declined between 1986 and 1987. Decreases occurred in the rates for 10 of the leading causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Accidents and adverse effects; Cerebrovascular diseases; Chronic obstructive pulmonary diseases and allied conditions; Pneumonia and influenza; Suicide; Atherosclerosis; Nephritis, nephrotic syndrome, and nephrosis; and Homicide and legal intervention. Increases in the age-adjusted death rate occurred for Diabetes mellitus and Septicemia. For men, the largest increase was for Diabetes mellitus (4 percent). In contrast to 1986, when the age-adjusted death rate for Motor vehicle accidents increased from the previous year for both sexes, between 1986 and 1987 the rate decreased for males and increased for

females. For males, the age-adjusted rate for Chronic liver disease and cirrhosis was unchanged between 1986 and 1987. Increases in mortality for males aged 35–44 years between 1986 and 1987 were due to increases for the categories All other infectious and parasitic diseases (largely HIV infection); Motor vehicle accidents; Chronic liver disease and cirrhosis; and Symptoms, signs, and ill-defined conditions.

Mortality was higher for the black population than for the white population for most of the leading causes (table D). The largest differential was for Homicide and legal intervention, for which the age-adjusted death rate for the black population was six times that of the white population. Other causes for which the differential was large include HIV infection (3.2); Nephritis, nephrotic syndrome, and nephrosis (2.8); Septicemia (2.7); and Diabetes mellitus (2.3). Age-adjusted rates for the black population were lower than those for the white population for two leading causes of death—Chronic obstructive pulmonary diseases and allied conditions and Suicide.

For the white population decreases in age-adjusted rates occurred in 11 leading causes of death. The largest decreases were for Homicide and legal intervention (5 percent); Diseases of heart, Pneumonia and influenza, and Atherosclerosis, (3 percent each); and Cerebrovascular diseases and Chronic liver disease and cirrhosis (2 percent each). Only Septicemia (3 percent) and Diabetes mellitus (2 percent) increased for the white population. For the black population rates were lower in 1987 than in 1986 for a number of the leading causes—Diseases of heart; Cerebrovascular diseases; Homicide and legal intervention; Pneumonia and influenza; and Nephritis, nephrotic syndrome, and nephrosis. Of the leading causes that increased for the black population, the largest increase was for Septicemia (6 percent). Other increases were for Chronic liver disease and cirrhosis, Suicide, Diabetes mellitus, and Chronic obstructive pulmonary diseases and allied conditions. Between 1986 and 1987 the age-adjusted death rate for Malignant neoplasms, including neoplasms of lymphatic and hema-

topoietic tissues, decreased slightly for the black population (less than 1 percent); for the white population the rate for this cause also declined slightly between 1986 and 1987.

## HIV infection

Beginning with mortality data for 1987, a new classification was introduced for HIV infection (see Technical notes). There were 13,468 deaths due to HIV infection in 1987. Of these deaths, 65 percent were for white males, 25 percent for black males, and 5 percent each for white and black females (see table 25). The largest numbers for both males and females were for age groups 25–34 and 35–44 years. Although the numbers of deaths were highest for white males, the age-adjusted death rates and almost all age-specific death rates were highest for black males, followed by white males, black females, and white females.

Overall, HIV infection was ranked as the 15th leading cause of death in 1987. It was the 10th leading cause for the black population and did not rank among the 15 leading causes of death for the white population. It was the 11th leading cause for males and did not rank among the 15 leading causes for females. By age, HIV infection ranked among the 15 leading causes for two age groups: It was the seventh leading cause of death for ages 15–24 years, and the sixth leading cause for ages 25–44 years.

## Hispanic deaths

Leading causes of death for all age groups combined for the Hispanic population in an 18-State reporting area (see Technical notes) differ from those of the non-Hispanic white population. The two leading causes of death for both groups are Diseases of heart and Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. For the non-Hispanic white population these two causes accounted for over three-fifths of all deaths in 1987, but only two-fifths of the deaths for the Hispanic population. Major differences in leading causes of death between the two groups are as follows: 3 of the 10 leading causes of death for the

Hispanic population are not among the 10 leading causes for the non-Hispanic white population; they are Homicide and legal intervention (5th leading cause), HIV infection (9th), and Certain conditions originating in the perinatal period (10th). Conversely, 3 leading causes for the non-Hispanic white population not among the 10 leading causes for the Hispanic population were Chronic obstructive pulmonary diseases and allied conditions (4th), Suicide (8th), and Atherosclerosis (9th). Differences in ranking the leading causes of death between the two population groups largely reflect differences in age composition between the two groups; that is, within broad age groups leading causes are similar. However, even within age categories some differences exist. HIV infection and Homicide and legal intervention consistently ranked higher for Hispanic than non-Hispanic population for age groups under 65 years. Chronic liver disease and cirrhosis also consistently ranked higher for Hispanic populations aged 25 years and over.

### Drug-related deaths

In 1987 a total of 9,796 persons died of drug-related causes in the United States. The category drug-related causes includes not only deaths from dependent and non-dependent use of drugs, but also poisoning from medically prescribed and other drugs; it excludes homicide and other causes indirectly related to drug use. (For drug-related causes see Technical notes.) The age-adjusted death rate for drug-related causes in

1987 was 3.8 deaths per 100,000 population, about the same as the rate for the previous year. The rate increased by 23 percent from 1983–87. Mortality from drug-related causes was higher for males than for females; the age-adjusted death rate in 1987 for males was 1.8 times that for females. Mortality for drug-related causes for the black population was higher than that of the white population, with a mortality-race ratio of 2.2.

### Infant mortality

In 1987 there were 38,408 deaths of infants under 1 year of age (table E). The infant mortality rate of 10.1 infant deaths per 1,000 live births was the lowest final rate ever recorded for the United States, and it compares with a rate for the previous year of 10.4. Among white infants, the rate was 8.6, a decline of 3 percent from 1986 (8.9); the rate for black infants was 17.9 in 1987 compared with 18.0 in 1986. For all infants and for white infants considered separately, the change in infant mortality rates between 1986 and 1987 was statistically significant. (For discussion of random variation and statistical significance, see Technical notes.)

Until recently, the absolute difference in infant mortality rates between black and white infants was narrowing; in 1960 the difference in rates was 21.4 infants per 1,000 live births compared with 9.1 in 1986 and 9.3 in 1987 (figure 5). However, because the infant mortality rates for the white and black populations have been decreasing by about the same average annual percent between 1960 and 1987, the black in-

fant mortality rate in 1987 continued to be about twice the white rate. The downward trend in infant mortality has slowed for the white and the black populations—since the late 1970's, for white infants; and since 1981, for black infants.

Between 1986 and 1987 the neonatal mortality rate declined from 6.7 to 6.5 deaths for infants under 28 days per 1,000 live births. By race, the rate in 1987 for the white population was 5.5 per 1,000 live births compared with 5.8 in 1986; and for the black population, 11.7, the same as in 1986. The difference in the neonatal mortality rate between 1986 and 1987 for the white population was statistically significant. Neonatal mortality rates have declined since 1960 for both races, but the rate for the white population has declined faster than that for the black population—an average annual decrease of 4 percent per year for white infants compared with 3 percent for black infants.

The postneonatal mortality rate—deaths to infants 28 days–11 months per 1,000 live births—for 1987 was 3.6, the same as in 1986. For the white population, the postneonatal mortality rate in 1987 remained the same as in 1986, 3.1; and for black infants, the rate in 1987 was 6.1 compared with a rate of 6.3 in 1986. For the black population, the change between the two years was not statistically significant. In contrast to the trend for neonatal mortality, between 1960 and 1987 the postneonatal rate decreased relatively faster for the black population than for the white population—an average annual decline of 4 percent for black infants compared

Table E. Infant, neonatal, and postneonatal deaths and mortality rates by race and sex: United States, 1987

[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]

Race and sex	Infant		Neonatal		Postneonatal	
	Number	Rate	Number	Rate	Number	Rate
All races . . . . .	38,408	1008.2	24,627	646.5	13,781	361.8
Male . . . . .	21,798	1117.2	13,872	711.0	7,926	406.2
Female . . . . .	16,610	893.9	10,755	578.8	5,855	315.1
White . . . . .	25,810	862.5	16,448	549.6	9,362	312.9
Male . . . . .	14,763	961.4	9,308	606.2	5,455	355.3
Female . . . . .	11,047	758.2	7,140	490.1	3,907	268.2
All other . . . . .	12,598	1542.2	8,179	1001.2	4,419	540.9
Male . . . . .	7,035	1692.6	4,564	1098.1	2,471	594.5
Female . . . . .	5,563	1386.3	3,615	900.9	1,948	485.5
Black . . . . .	11,461	1786.4	7,520	1172.1	3,941	614.3
Male . . . . .	6,391	1964.9	4,190	1288.2	2,201	676.7
Female . . . . .	5,070	1602.9	3,330	1052.8	1,740	550.1



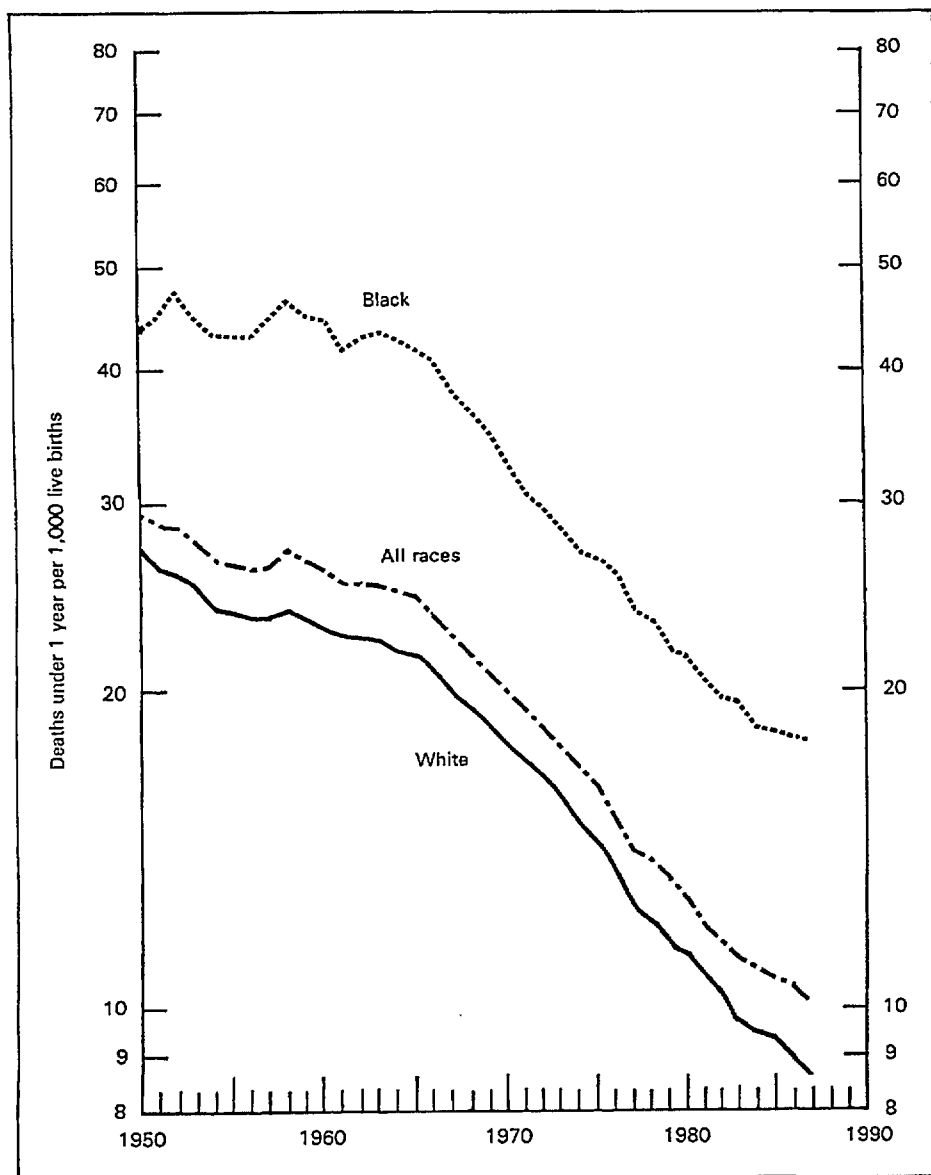


Figure 5. Infant mortality rates by race: United States, 1950-87

with an average decline of 2 percent for white infants.

As was seen in the overall infant mortality rates, the downward trends in neonatal and postneonatal mortality rates have slowed recently for the black and white populations.

The ranking of the leading causes of infant mortality for 1987 changed from 1986. Because of an increase in the number of deaths assigned to Accidents and adverse effects, the rank of this cause changed from the eighth leading cause in 1986 to the sixth in 1987. The rank for Newborn affected by complications of placenta, cord, and membranes changed from ninth in 1986 to eighth in 1987. Because of a decrease in the number of deaths assigned

to Intrauterine hypoxia and birth asphyxia, the rank of this cause changed from sixth in 1986 to ninth in 1987. Additionally, Disorders relating to short gestation and unspecified low birthweight increased from the fourth leading cause to the third leading cause. Among the 10 leading causes of infant death, the first 4—Congenital anomalies, Sudden infant death syndrome, Disorders relating to short gestation and unspecified low birthweight, and Respiratory distress syndrome—accounted for just over half of all deaths of infants under 1 year of age in 1987; and the next 6 causes accounted for only 14 percent of all infant deaths.

The difference between infant mortality rates for white and black infants

varied by cause, although the risk was higher for black infants than for white infants for all the leading causes. For Congenital anomalies, the leading cause of infant death, the difference between the rate for black infants (226.5 per 100,000 live births) and for white infants (206.2) was statistically significant. Expressed as the ratio of the infant mortality rate for black infants to that for white infants, the other leading causes may be ranked, beginning with the highest ratio, as follows: Disorders relating to short gestation and unspecified low birthweight (3.9); Pneumonia and influenza (2.6); Intrauterine hypoxia and birth asphyxia (2.5); Infections specific to the perinatal period (2.2); Newborn affected by maternal complications of pregnancy (2.2); Accidents and adverse effects (2.0); Sudden infant death syndrome and Respiratory distress syndrome (1.9); and Newborn affected by complications of placenta, cord, and membranes (1.8).

**Hispanic deaths**—The infant mortality rate for the Hispanic population in a reporting area consisting of 18 States (see Technical notes) and the District of Columbia was 7.9 deaths of infants under 1 year of age per 1,000 live births. This rate was lower than the rate for the non-Hispanic white population (8.4). Among specified subgroups of the Hispanic population, the rates for Mexican and Puerto Rican infants were lower than the rate for non-Hispanic white infants. The difference between the rates for Cubans and the non-Hispanic white population was not statistically significant. Infant mortality rates by Hispanic origin and race for the 18-State area may be somewhat understated (see Technical notes).

### Maternal mortality

In 1987, 251 women were reported to have died of maternal causes (table F). As in previous years, the number does not include all deaths occurring to pregnant women, but only those deaths assigned to Complications of pregnancy, childbirth, and the puerperium (ICD-9 Nos. 630-676). The maternal mortality rate for 1987 was 6.6 deaths per 100,000 live births. The changes in the maternal mortality rate between 1986 and 1987 were statisti-

**Table F. Maternal deaths and maternal mortality rates by race: United States, 1987**

[Maternal deaths are those assigned to Complications of pregnancy, childbirth, and the puerperium, category numbers 630-676 of the *Ninth Revision International Classification of Diseases, 1975*. Rates per 100,000 live births in specified group]

Race	Number	Rate
All races . . . . .	251	6.6
White . . . . .	153	5.1
All other . . . . .	98	12.0
Black . . . . .	91	14.2

cally significant for black women, but not for white women. In 1987 black women were 2.8 times as likely as white women to die of causes associated with pregnancy, childbirth, and the puerperium.

**Report of autopsy**

For 1987 all States requested information on the death certificate as to whether autopsies were performed. They were reported as performed for 253,023 deaths, or 11.9 percent of the deaths that occurred in 1987, a reduction from the 12.2 percent reported for the previous year. This continues the downward trend in the percent of deaths autopsied. The percent autopsied for all causes of death combined is heavily influenced by the low rates for the three leading causes of death: Diseases of heart (8.1 percent); Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (4.5 percent); and Cerebrovascular diseases (4.0 percent). Among the 15 leading causes of death, the highest percents reported were for traumatic causes, that is, Homicide and legal intervention (96.0 percent), Suicide (53.0 percent), and Accidents and adverse effects (48.7 percent). For nontraumatic causes, the highest percents were for Certain conditions originating in the perinatal period (26.2), Chronic liver disease and cirrhosis (20.4), and HIV infection (15.9).

**Marital status**

Almost 90 percent (89.7) of the persons who died in 1987 had been married. The percent was larger for females (91.7) than for males (87.8) and for the white population (90.6) than for the black population (83.2). The proportion who were widowed at the time of death was considerably greater for women (57.6 percent) than for men (17.9 percent) but about the same for both major race groups: 37.5 percent of the white population and 34.3 percent of the black population.

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### Symbols

- Data not available
  - . . . Category not applicable
  - Quantity zero
  - 0.0 Quantity more than zero but less than 0.05
  - Z Quantity more than zero but less than 500 where numbers are rounded to thousands
  - \* Figure does not meet standard of reliability or precision
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**Table 1. Deaths, death rates, and age-adjusted death rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1975-87**

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

Year	All races						All other					
	Both sexes		Male		Female		Both sexes		Male		Female	
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Number												
1987	2,123,323	1,107,958	1,015,365	1,843,067	953,382	889,685	280,256	154,576	125,680	254,814	139,551	115,263
1986	2,105,361	1,104,005	1,001,356	1,831,083	952,554	878,529	274,278	151,451	122,827	250,326	137,214	113,112
1985	2,086,440	1,097,758	988,682	1,819,054	950,455	868,599	267,386	147,303	120,083	244,207	133,610	110,597
1984	2,039,369	1,076,514	962,855	1,781,897	934,529	847,368	257,472	141,985	115,487	235,884	129,147	106,737
1983	2,019,201	1,071,923	947,278	1,765,582	931,779	833,803	253,619	140,144	113,475	233,124	127,911	105,213
1982	1,974,797	1,056,440	918,357	1,729,085	919,239	809,846	245,712	137,201	108,511	226,513	125,610	100,903
1981	1,977,981	1,063,772	914,209	1,731,233	925,490	805,743	246,748	138,282	108,466	228,560	127,296	101,264
1980	1,989,841	1,075,078	914,763	1,738,607	933,878	804,729	251,234	141,200	110,034	233,135	130,138	102,997
1979	1,913,841	1,044,959	868,882	1,676,145	910,137	766,008	237,696	134,822	102,874	220,818	124,433	96,385
1978	1,927,788	1,055,290	872,498	1,689,722	920,123	769,599	238,066	135,167	102,899	221,340	124,663	96,677
1977	1,899,597	1,046,243	853,354	1,664,100	912,670	751,430	235,497	133,573	101,924	220,076	123,894	96,182
1976	1,909,440	1,051,983	857,457	1,674,989	918,589	756,400	234,451	133,394	101,057	219,442	123,977	95,465
1975	1,892,879	1,050,819	842,060	1,660,366	917,804	742,562	232,513	133,015	99,498	217,932	123,770	94,162
1970	1,921,031	1,078,478	842,553	1,682,096	942,437	739,659	238,935	136,041	102,894	225,647	127,540	98,107
1960	1,711,982	975,648	736,334	1,505,335	860,857	644,478	206,647	114,791	91,856	196,010	107,701	88,309
1950	1,452,454	827,749	624,705	1,276,085	731,366	544,719	176,369	96,383	79,986	169,606	92,004	77,602
1940	1,417,269	791,003	626,266	1,231,223	690,901	540,322	186,046	100,102	85,944	178,743	95,517	83,226
Death rate												
1987	872.4	934.7	813.1	895.5	947.8	845.5	745.8	861.5	640.0	856.9	989.5	737.3
1986	873.2	940.7	809.3	896.2	954.4	840.7	745.6	862.7	638.8	854.2	987.7	733.9
1985	873.9	945.0	806.6	897.1	960.0	837.1	743.3	858.6	638.1	845.7	976.8	727.7
1984	862.3	935.9	792.7	885.2	951.1	822.3	731.5	846.4	627.0	828.5	958.1	712.0
1983	862.8	942.6	787.4	884.6	957.4	815.3	736.6	854.9	629.2	830.5	963.3	711.2
1982	852.0	938.0	770.7	872.9	951.8	797.9	728.9	854.8	614.5	819.2	960.4	692.4
1981	862.4	954.5	775.4	880.3	965.1	799.6	755.0	889.4	633.0	841.7	991.6	707.3
1980	878.3	976.9	785.3	892.5	983.3	806.1	791.7	936.5	660.6	875.4	1,034.1	733.3
1979	852.2	957.5	752.7	865.2	963.3	771.8	771.0	920.3	635.7	839.3	999.6	695.3
1978	868.0	977.5	764.5	880.2	982.7	782.7	790.0	943.2	651.0	855.1	1,016.8	709.5
1977	864.4	978.9	756.0	874.6	983.0	771.3	798.6	951.7	659.6	864.0	1,026.0	718.0
1976	877.6	993.8	767.6	887.7	997.3	783.1	812.1	969.8	668.6	875.0	1,041.6	724.5
1975	878.5	1,002.0	761.4	886.9	1,004.1	775.1	823.1	987.6	673.1	882.5	1,055.4	726.1
1970	945.3	1,090.3	807.8	946.3	1,086.7	812.6	938.4	1,115.9	775.3	999.3	1,186.6	829.2
1960	954.7	1,104.5	809.2	947.8	1,098.5	809.9	1,008.5	1,152.0	872.6	1,038.6	1,181.7	905.0
1950	963.8	1,106.1	823.5	945.7	1,089.5	803.3	1,119.4	1,251.1	993.5	---	---	---
1940	1,076.4	1,197.4	954.6	1,041.5	1,162.2	919.4	1,382.8	1,513.7	1,256.2	---	---	---
Age-adjusted death rate <sup>1</sup>												
1987	535.5	698.6	403.3	511.1	668.2	384.1	688.0	898.1	520.1	778.6	1,023.2	586.2
1986	541.7	709.1	406.6	518.0	679.8	387.7	693.1	905.7	524.0	781.0	1,026.9	588.2
1985	546.1	716.8	409.4	523.1	688.7	390.6	697.8	910.4	530.0	779.9	1,024.0	589.1
1984	545.9	716.7	409.6	523.6	689.9	391.3	694.5	904.4	529.0	771.9	1,011.7	585.3
1983	550.5	725.3	411.5	528.0	698.4	392.7	703.1	916.3	535.2	777.9	1,019.6	590.4
1982	553.8	733.1	411.2	531.8	706.0	393.3	704.6	928.4	529.3	778.7	1,035.0	581.4
1981	568.2	753.3	420.4	544.6	724.4	401.4	732.6	964.3	549.3	803.9	1,067.7	599.1
1980	585.8	777.2	432.6	559.4	745.3	411.1	774.2	1,015.1	582.6	842.5	1,112.8	631.1
1979	577.0	768.6	423.1	551.9	738.4	402.5	757.1	994.8	566.9	812.1	1,073.3	605.0
1978	595.0	791.4	437.4	569.5	761.1	416.4	780.0	1,021.0	585.8	831.8	1,093.9	622.7
1977	602.1	801.3	441.8	575.7	770.6	419.6	796.7	1,036.1	601.8	849.3	1,112.1	639.6
1976	618.5	820.9	455.0	591.3	789.3	432.5	818.5	1,063.4	618.3	870.5	1,138.3	654.5
1975	630.4	837.2	462.5	602.2	804.3	439.0	840.6	1,090.1	634.5	890.8	1,163.0	670.6
1970	714.3	931.6	532.5	679.6	893.4	501.7	983.4	1,231.4	770.8	1,044.0	1,318.6	814.4
1960	760.9	949.3	590.6	727.0	917.7	555.0	1,046.1	1,211.0	893.3	1,073.3	1,246.1	916.9
1950	841.5	1,001.6	688.4	800.4	963.1	645.0	1,225.7	1,358.5	1,095.7	---	---	---
1940	1,076.1	1,213.0	938.9	1,017.2	1,155.1	879.0	1,634.7	1,764.4	1,504.7	---	---	---

<sup>1</sup>For method of computation, see Technical notes.

**Table 2. Deaths and death rates by age, race, and sex: United States, 1987**

[Rates per 100,000 population in specified group]

Age	All races						All other					
	Both sexes		Male		Female		Both sexes		Male		Female	
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Number											
All ages . . . . .	2,123,323	1,107,958	1,015,365	1,843,067	953,382	889,685	280,256	154,576	125,680	254,814	139,551	115,263
Under 1 year . . . .	38,408	21,798	16,610	25,810	14,763	11,047	12,598	7,035	5,563	11,461	6,391	5,070
1-4 years . . . . .	7,473	4,261	3,212	5,428	3,117	2,311	2,045	1,144	901	1,785	999	786
5-9 years . . . . .	4,301	2,636	1,665	3,245	2,002	1,243	1,056	634	422	905	541	364
10-14 years . . . . .	4,442	2,943	1,499	3,382	2,231	1,151	1,060	712	348	896	606	290
15-19 years . . . . .	15,615	11,253	4,362	12,493	8,912	3,581	3,122	2,341	781	2,706	2,028	678
20-24 years . . . . .	22,408	16,978	5,430	16,950	12,928	4,022	5,458	4,050	1,408	4,791	3,560	1,231
25-29 years . . . . .	26,500	19,415	7,085	19,710	14,562	5,148	6,790	4,853	1,937	6,110	4,367	1,743
30-34 years . . . . .	31,201	22,318	8,883	22,408	16,279	6,129	8,793	6,039	2,754	8,108	5,569	2,539
35-39 years . . . . .	34,902	24,048	10,854	25,183	17,461	7,722	9,719	6,587	3,132	8,957	6,088	2,869
40-44 years . . . . .	38,561	25,301	13,260	29,112	19,203	9,909	9,449	6,098	3,351	8,598	5,578	3,020
45-49 years . . . . .	47,613	30,122	17,491	36,709	23,333	13,376	10,904	6,789	4,115	9,933	6,189	3,744
50-54 years . . . . .	68,307	42,735	25,572	53,975	34,078	19,897	14,332	8,657	5,675	13,068	7,925	5,143
55-59 years . . . . .	107,583	67,093	40,490	88,913	56,006	32,907	18,670	11,087	7,583	16,966	10,096	6,870
60-64 years . . . . .	165,741	101,309	64,432	140,201	86,542	53,659	25,540	14,767	10,773	23,540	13,590	9,950
65-69 years . . . . .	220,110	131,122	88,988	190,472	114,258	76,214	29,638	16,864	12,774	27,268	15,475	11,793
70-74 years . . . . .	265,993	151,935	114,058	234,828	135,122	99,706	31,165	16,813	14,352	28,421	15,177	13,244
75-79 years . . . . .	296,714	155,809	140,905	265,687	139,916	125,771	31,027	15,893	15,134	28,242	14,165	14,077
80-84 years . . . . .	287,621	131,142	156,479	261,500	119,096	142,404	26,121	12,046	14,075	23,687	10,600	13,087
85 years and over . . . . .	439,248	145,331	293,917	406,652	133,284	273,368	32,596	12,047	20,549	29,222	10,506	18,716
Not stated . . . . .	582	409	173	409	289	120	173	120	53	150	101	49
	Rate											
All ages <sup>1</sup> . . . . .	872.4	934.7	813.1	895.5	947.8	845.5	745.8	861.5	640.0	856.9	989.5	737.3
Under 1 year <sup>2</sup> . . . .	1,018.5	1,128.8	902.2	845.1	942.1	742.9	1,757.0	1,938.0	1,571.5	2,003.7	2,211.4	1,791.5
1-4 years . . . . .	51.6	57.5	45.4	46.4	52.0	40.5	73.6	81.1	65.8	82.1	90.5	73.5
5-9 years . . . . .	24.4	29.2	19.3	22.8	27.4	17.9	30.9	36.6	25.0	33.2	39.1	27.1
10-14 years . . . . .	26.9	34.8	18.7	25.5	32.8	17.9	32.7	43.3	21.9	34.6	46.1	22.7
15-19 years . . . . .	84.6	119.6	48.2	83.2	116.3	48.7	90.6	133.9	46.0	97.0	144.2	49.0
20-24 years . . . . .	113.2	171.2	55.0	103.6	156.9	49.5	159.3	241.5	80.5	173.5	266.9	86.2
25-29 years . . . . .	120.6	176.4	64.6	106.9	156.4	56.4	191.5	286.1	104.7	217.4	327.4	118.0
30-34 years . . . . .	146.2	209.3	83.2	124.7	179.5	68.8	261.7	380.1	155.5	312.7	458.4	184.3
35-39 years . . . . .	186.3	259.3	114.7	157.7	218.4	96.8	350.9	515.0	210.1	424.9	631.5	250.8
40-44 years . . . . .	247.7	331.2	167.3	215.6	286.8	145.5	458.2	646.7	299.5	556.1	798.0	357.0
45-49 years . . . . .	385.5	500.0	276.5	345.3	445.4	248.1	634.3	863.7	440.6	750.8	1,041.9	513.6
50-54 years . . . . .	625.2	808.6	453.3	572.0	738.9	412.4	962.5	1,284.4	695.5	1,117.9	1,515.3	796.1
55-59 years . . . . .	967.4	1,266.4	695.3	913.3	1,198.5	650.0	1,348.0	1,773.9	997.8	1,525.7	1,995.3	1,131.8
60-64 years . . . . .	1,520.8	1,999.0	1,105.0	1,453.3	1,920.2	1,044.2	2,041.6	2,637.0	1,559.0	2,326.1	2,986.8	1,786.4
65-69 years . . . . .	2,225.8	2,917.1	1,649.8	2,158.6	2,836.6	1,589.1	2,785.5	3,611.1	2,136.1	3,127.1	4,061.7	2,401.8
70-74 years . . . . .	3,419.4	4,564.0	2,563.1	3,358.0	4,504.1	2,497.6	3,965.0	5,110.3	3,140.5	4,399.5	5,705.6	3,485.3
75-79 years . . . . .	5,136.1	6,882.0	4,011.0	5,098.6	6,865.4	3,963.8	5,491.5	7,063.6	4,451.2	6,073.5	7,869.4	4,939.3
80-84 years . . . . .	8,161.8	10,705.5	6,809.4	8,103.5	10,671.7	6,745.8	8,794.9	10,950.9	7,526.7	9,668.2	12,045.5	8,335.7
85 years and over . . . . .	15,320.8	18,031.1	14,260.9	15,580.5	18,434.9	14,486.9	12,683.3	14,514.5	11,809.8	13,222.6	15,226.1	12,313.2

<sup>1</sup>Figures for age not stated included in All ages but not distributed among age groups.

<sup>2</sup>Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see tables E, 13, 14, 15, 17, and 21 for infant mortality rates, and Technical notes for further discussion of the difference.

Table 3. Abridged life table for the total population, 1987

[For explanation of the columns of the life table, see section 6 of *Vital Statistics of the United States, 1986, Volume II*]

Age interval  Period of life between 2 exact ages stated in years (1)  x to x+n	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
	Proportion of persons alive at beginning of age interval dying during interval	Number living at beginning of age interval	Number dying during age interval	In the age interval	In this and all subsequent age intervals	Average number of years of life remaining at beginning of age interval
	(2) nq <sub>x</sub>	(3) l <sub>x</sub>	(4) n <sup>d</sup> <sub>x</sub>	(5) nL <sub>x</sub>	(6) T <sub>x</sub>	(7) e <sub>x</sub>
0-1	0.0101	100,000	1,011	99,135	7,496,306	75.0
1-5	0.0020	98,989	201	395,485	7,397,171	74.7
5-10	0.0012	98,788	121	493,611	7,001,686	70.9
10-15	0.0013	98,667	131	493,081	6,508,075	66.0
15-20	0.0042	98,536	414	491,741	6,014,994	61.0
20-25	0.0057	98,122	555	489,250	5,523,253	56.3
25-30	0.0060	97,567	587	486,366	5,034,003	51.6
30-35	0.0073	96,980	707	483,174	4,547,637	46.9
35-40	0.0093	96,273	900	479,243	4,064,463	42.2
40-45	0.0124	95,373	1,178	474,130	3,585,220	37.6
45-50	0.0191	94,195	1,798	466,809	3,111,090	33.0
50-55	0.0307	92,397	2,841	455,329	2,644,281	28.6
55-60	0.0473	89,556	4,240	437,789	2,188,952	24.4
60-65	0.0736	85,316	6,276	411,740	1,751,163	20.5
65-70	0.1059	79,040	8,368	375,183	1,339,423	16.9
70-75	0.1585	70,672	11,203	326,327	964,240	13.6
75-80	0.2292	59,469	13,630	264,101	637,913	10.7
80-85	0.3407	45,839	15,619	190,359	373,812	8.2
85 and over	1.0000	30,220	30,220	183,453	183,453	6.1

Table 4. Life expectancy at birth by race and sex: United States, 1940, 1950, 1960, and 1970-87

Year	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
1987	75.0	71.5	78.4	75.6	72.2	78.9	71.3	67.3	75.2	69.4	65.2	73.6
1986	74.8	71.3	78.3	75.4	72.0	78.8	71.2	67.2	75.1	69.4	65.2	73.5
1985	74.7	71.2	78.2	75.3	71.9	78.7	71.2	67.2	75.0	69.5	65.3	73.5
1984	74.7	71.2	78.2	75.3	71.8	78.7	71.3	67.4	75.0	69.7	65.6	73.7
1983	74.6	71.0	78.1	75.2	71.7	78.7	71.1	67.2	74.9	69.6	65.4	73.6
1982	74.5	70.9	78.1	75.1	71.5	78.7	71.0	66.8	75.0	69.4	65.1	73.7
1981	74.2	70.4	77.8	74.8	71.1	78.4	70.3	66.1	74.4	68.9	64.5	73.2
1980	73.7	70.0	77.4	74.4	70.7	78.1	69.5	65.3	73.6	68.1	63.8	72.5
1979	73.9	70.0	77.8	74.6	70.8	78.4	69.8	65.4	74.1	68.5	64.0	72.9
1978	73.5	69.6	77.3	74.1	70.4	78.0	69.3	65.0	73.5	68.1	63.7	72.4
1977	73.3	69.5	77.2	74.0	70.2	77.9	68.9	64.7	73.2	67.7	63.4	72.0
1976	72.9	69.1	76.8	73.6	69.9	77.5	68.4	64.2	72.7	67.2	62.9	71.6
1975	72.6	68.8	76.6	73.4	69.5	77.3	68.0	63.7	72.4	66.8	62.4	71.3
1974	72.0	68.2	75.9	72.8	69.0	76.7	67.1	62.9	71.3	66.0	61.7	70.3
1973	71.4	67.6	75.3	72.2	68.5	76.1	66.1	62.0	70.3	65.0	60.9	69.3
1972 <sup>1</sup>	71.2	67.4	75.1	72.0	68.3	75.9	65.7	61.5	70.1	64.7	60.4	69.1
1971	71.1	67.4	75.0	72.0	68.3	75.8	65.6	61.6	69.8	64.6	60.5	68.9
1970	70.8	67.1	74.7	71.7	68.0	75.6	65.3	61.3	69.4	64.1	60.0	68.3
1960	69.7	66.6	73.1	70.6	67.4	74.1	63.6	61.1	66.3	---	---	---
1950	68.2	65.6	71.1	69.1	66.5	72.2	60.8	59.1	62.9	---	---	---
1940	62.9	60.8	65.2	64.2	62.1	66.6	53.1	51.5	54.9	---	---	---

<sup>1</sup>Deaths based on a 50-percent sample.

**Table 5. Age-specific and age-adjusted death rates for the 15 leading causes in 1987 and selected components: United States, 1979, 1986, and 1987**

[Rates per 100,000 population in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Cause of death (Ninth Revision, International Classification of Diseases, 1975)	Year	Age											Age-adjusted rate <sup>3</sup>	
		All ages <sup>1</sup>	Under 1 year <sup>2</sup>	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 . . . . .	1987	872.4	1,018.5	51.6	25.6	99.4	133.2	214.1	498.0	1,241.3	2,751.3	6,282.5	15,320.8	535.5
	1986	873.2	1,032.1	52.0	26.0	102.3	132.1	212.9	504.8	1,255.1	2,801.4	6,348.2	15,398.9	541.7
	1979	852.2	1,332.9	64.2	31.5	114.8	133.0	229.8	589.7	1,338.0	2,929.0	6,496.6	14,962.4	577.0
Diseases of heart . . . . .390-398,402,404-429	1987	312.4	25.2	2.2	0.9	2.8	8.4	35.6	140.5	408.8	1,007.9	2,560.0	7,074.2	169.6
	1986	317.5	26.1	2.5	0.9	2.8	8.6	37.5	144.6	424.2	1,043.0	2,637.5	7,178.7	175.0
	1979	326.5	20.2	2.1	0.8	2.6	8.4	45.3	184.6	499.0	1,199.8	2,925.2	7,310.9	199.5
Rheumatic fever and rheumatic heart disease . . .390-398	1987	2.6	0.1	0.1	0.0	0.1	0.4	0.7	1.9	4.7	10.6	20.0	26.2	1.7
	1986	2.7	0.1	0.0	0.0	0.1	0.3	0.7	2.1	5.0	10.7	20.2	25.7	1.8
	1979	3.5	0.1	0.0	0.0	0.2	0.4	1.4	3.9	8.0	16.0	20.6	25.2	2.6
Hypertensive heart disease . . . . .402	1987	8.5	0.0	-	0.0	0.0	0.3	1.6	5.9	14.2	28.4	64.0	157.9	5.0
	1986	8.5	0.0	0.0	-	0.0	0.3	1.6	5.9	13.8	28.6	66.2	160.1	5.0
	1979	9.3	0.0	-	0.0	0.0	0.4	1.9	7.0	16.2	35.7	79.6	170.3	6.0
Hypertensive heart and renal disease . . . . .404	1987	1.0	-	-	0.0	0.0	0.0	0.2	0.3	1.0	2.8	9.4	27.3	0.5
	1986	1.0	-	-	-	0.0	0.1	0.1	0.3	1.0	3.1	9.0	29.0	0.5
	1979	1.6	-	-	0.0	0.0	0.2	0.4	0.4	1.4	5.1	16.8	50.9	0.9
Ischemic heart disease . . . . .410-414	1987	210.4	0.7	0.1	0.0	0.3	2.8	20.8	92.0	278.6	699.6	1,763.9	4,643.7	113.9
	1986	216.0	0.6	0.1	0.0	0.3	3.0	22.4	95.9	292.5	733.4	1,830.0	4,748.6	118.8
	1979	245.5	0.7	0.1	0.0	0.3	3.6	30.1	136.1	381.0	926.6	2,224.8	5,376.1	149.7
Acute myocardial infarction . . . . .410	1987	104.2	0.4	0.0	0.0	0.2	1.6	12.3	56.6	165.2	394.4	880.7	1,652.0	60.9
	1986	108.3	0.4	0.0	0.0	0.2	1.8	13.5	59.6	176.0	419.8	921.8	1,678.9	64.3
	1979	133.8	0.4	0.0	0.0	0.2	2.4	21.1	94.6	258.9	577.2	1,135.2	1,916.3	88.2
Other acute and subacute forms of ischemic heart disease . . . . .411	1987	1.5	0.0	-	-	0.0	0.1	0.3	1.3	2.9	4.9	10.2	22.8	0.9
	1986	1.6	-	-	0.0	0.0	0.1	0.4	1.4	3.4	5.9	10.4	23.3	1.0
	1979	2.1	0.1	-	-	0.0	0.1	0.5	2.0	4.8	8.2	15.3	30.2	1.5
Angina pectoris . . . . .413	1987	0.4	-	-	-	-	0.0	0.0	0.1	0.5	1.3	3.9	10.0	0.2
	1986	0.4	0.0	-	-	0.0	0.0	0.1	0.1	0.5	1.5	3.5	8.7	0.2
	1979	0.2	0.0	-	-	0.0	0.0	0.1	0.1	0.3	0.9	2.1	4.6	0.1
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .412,414	1987	104.4	0.2	0.0	0.0	0.1	1.1	8.2	34.0	110.1	299.0	869.2	2,958.8	51.9
	1986	105.7	0.2	0.0	0.0	0.1	1.1	8.4	34.8	112.6	306.2	894.3	3,037.7	53.2
	1979	109.4	0.2	0.0	0.0	0.1	1.0	8.4	39.3	117.0	340.3	1,072.2	3,424.9	59.9
Other diseases of endocardium . . . . .424	1987	4.5	0.5	0.1	0.0	0.1	0.3	0.7	1.6	4.2	12.6	41.7	108.5	2.3
	1986	4.2	0.3	0.0	0.0	0.1	0.3	0.6	1.4	4.2	12.7	39.9	96.4	2.2
	1979	2.9	0.4	0.0	0.0	0.1	0.2	0.6	1.5	4.3	11.6	27.5	47.1	1.8
All other forms of heart disease . . . . .415-423,425-429	1987	85.3	23.9	2.0	0.8	2.2	4.7	11.8	38.9	106.1	253.8	660.9	2,110.6	46.1
	1986	85.1	24.9	2.4	0.8	2.2	4.7	12.1	38.9	107.6	254.6	672.1	2,118.9	46.6
	1979	63.7	19.0	2.0	0.7	1.9	3.7	11.0	35.7	88.1	204.8	555.9	1,641.4	38.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .140-208	1987	195.9	2.7	3.8	3.3	5.1	12.4	43.5	164.3	447.0	843.6	1,298.4	1,618.0	132.9
	1986	194.7	2.6	4.0	3.4	5.4	13.1	45.3	165.7	444.4	847.0	1,287.3	1,612.0	133.2
	1979	179.6	3.4	4.6	4.4	6.1	13.3	48.3	181.4	429.4	800.0	1,207.6	1,522.9	130.8
Malignant neoplasms of lip, oral cavity, and pharynx . . . . .140-149	1987	3.3	-	-	0.0	0.1	0.1	0.8	4.0	9.9	13.9	15.7	20.5	2.4
	1986	3.4	0.0	0.0	0.0	0.1	0.2	0.9	4.2	10.3	14.6	16.4	22.8	2.6
	1979	3.8	-	0.0	0.0	0.1	0.2	1.1	5.6	11.8	16.3	18.1	23.7	3.0
Malignant neoplasms of digestive organs and peritoneum . . . . .150-159	1987	48.2	0.1	0.2	0.1	0.3	1.6	7.4	32.0	97.9	204.5	363.0	528.8	30.7
	1986	48.3	0.1	0.1	0.0	0.3	1.5	7.3	32.5	98.0	209.3	363.7	533.9	30.9
	1979	48.6	0.3	0.1	0.1	0.3	1.8	8.2	36.3	103.9	221.9	388.7	547.8	33.1
Malignant neoplasms of respiratory and intrathoracic organs . . . . .160-165	1987	55.5	0.1	0.0	0.0	0.1	0.8	7.7	51.6	160.4	278.1	313.3	221.8	39.7
	1986	54.1	0.1	0.0	0.0	0.1	0.7	7.9	51.7	157.8	271.7	303.9	214.9	39.0
	1979	45.9	0.0	0.0	0.0	0.1	0.8	9.8	56.0	140.9	231.0	238.1	170.3	35.2

See footnotes at end of table.

**Table 5. Age-specific and age-adjusted death rates for the 15 leading causes in 1987 and selected components: United States, 1979, 1986, and 1987—Con.**

[Rates per 100,000 population in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Cause of death (Ninth Revision, International Classification of Diseases, 1975)	Year	Age											Age-adjusted rate <sup>3</sup>	
		All ages <sup>1</sup>	Under 1 year <sup>2</sup>	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
Malignant neoplasm of breast . . . . .174-175	1987	16.9	-	-	-	0.0	1.6	8.9	23.4	43.1	60.9	87.1	127.9	12.5
	1986	16.9	-	-	0.0	0.0	1.5	9.3	23.4	43.1	61.9	85.9	129.9	12.6
	1979	15.4	-	-	-	0.0	1.6	9.1	25.3	41.3	56.6	77.4	114.2	12.2
Malignant neoplasms of genital organs . . . . .179-187	1987	21.3	-	0.0	0.0	0.3	1.5	3.7	11.5	32.8	88.3	181.1	258.9	12.9
	1986	21.3	-	0.0	0.0	0.3	1.4	4.0	11.8	34.3	89.8	178.2	258.2	13.1
	1979	20.2	0.0	0.0	0.1	0.5	1.6	4.7	14.5	35.6	88.3	176.0	252.0	13.6
Malignant neoplasms of urinary organs . . . . .188-189	1987	8.0	0.1	0.1	0.1	0.1	0.2	1.0	5.2	15.3	32.6	63.1	94.1	5.0
	1986	7.9	0.1	0.1	0.1	0.1	0.2	1.0	5.2	15.1	32.5	64.0	93.9	5.0
	1979	7.8	0.2	0.2	0.2	0.1	0.2	1.1	5.7	15.1	34.6	65.6	97.0	5.2
Malignant neoplasms of all other and unspecified sites . . . . .170-173,190-199	1987	24.9	1.4	2.0	1.5	1.9	3.6	8.6	23.5	56.1	96.3	148.7	200.3	17.6
	1986	24.7	1.5	2.1	1.6	2.0	4.1	9.2	23.6	54.4	96.1	147.7	196.8	17.6
	1979	21.6	1.7	2.2	1.7	2.3	3.7	8.6	24.0	49.8	86.4	130.2	175.8	16.4
Leukemia . . . . .204-208	1987	7.1	0.8	1.3	1.4	1.3	1.5	2.4	4.8	11.2	24.5	48.9	75.4	4.9
	1986	7.2	0.7	1.3	1.3	1.5	1.6	2.4	4.8	11.4	25.2	50.3	74.9	5.0
	1979	7.3	0.8	1.3	1.5	1.3	1.5	2.5	5.0	11.7	25.7	50.2	77.3	5.3
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . .200-203	1987	10.8	0.2	0.1	0.2	0.9	1.7	3.0	8.2	20.5	44.6	77.6	90.3	7.3
	1986	10.9	0.1	0.2	0.3	1.0	1.9	3.4	8.3	20.0	45.9	77.2	86.7	7.4
	1979	9.1	0.1	0.3	0.4	0.9	1.8	3.0	8.6	19.5	39.5	63.1	66.0	6.7
Cerebrovascular diseases . . . . .430-438	1987	61.6	3.4	0.4	0.2	0.6	2.2	7.0	20.1	52.2	157.2	562.6	1,733.1	30.3
	1986	62.1	2.9	0.3	0.2	0.7	2.2	7.1	20.4	53.0	164.1	573.8	1,762.6	31.0
	1979	75.5	4.6	0.3	0.3	0.9	2.6	9.1	26.4	68.1	226.9	793.8	2,264.9	41.6
Accidents and adverse effects . . . . .E800-E949	1987	39.0	25.2	20.2	12.3	48.9	38.4	31.7	30.0	35.5	49.2	106.8	251.9	34.6
	1986	39.5	24.1	20.4	12.5	51.2	39.5	31.1	30.7	34.8	49.0	106.3	252.2	35.2
	1979	46.9	31.5	26.5	16.1	62.6	45.7	38.4	39.4	43.5	58.8	117.8	276.0	42.9
Motor vehicle accidents . . . . .E810-E825	1987	19.8	5.3	6.8	7.0	37.8	24.2	17.3	15.4	15.6	18.5	29.3	27.1	19.5
	1986	19.9	4.9	7.0	6.9	39.0	24.2	16.6	15.1	15.1	17.9	28.8	25.3	19.4
	1979	23.8	6.5	9.8	8.3	45.6	28.8	21.0	18.6	18.2	20.7	28.7	24.4	23.2
All other accidents and adverse effects . . . . .E800-E807,E826-E949	1987	19.2	19.9	13.3	5.3	11.1	14.2	14.4	14.6	19.9	30.6	77.4	224.8	15.2
	1986	19.7	19.3	13.4	5.5	12.2	15.3	14.5	15.6	19.7	31.2	77.5	226.9	15.7
	1979	23.1	25.0	16.7	7.7	17.0	16.9	17.4	20.8	25.2	38.1	89.2	251.6	19.6
Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	1987	32.2	1.4	0.3	0.3	0.5	0.6	1.8	9.2	47.4	145.5	300.4	376.9	18.7
	1986	31.8	1.6	0.2	0.3	0.5	0.6	1.6	9.8	47.2	149.2	294.8	362.9	18.8
	1979	22.2	1.9	0.5	0.2	0.3	0.5	1.7	9.3	40.2	117.0	200.6	230.2	14.6
Pneumonia and influenza . . . . .480-487	1987	28.4	17.9	1.4	0.3	0.7	1.8	3.4	7.0	17.6	56.7	234.1	1,002.4	13.1
	1986	29.0	17.6	1.4	0.4	0.7	1.7	3.6	7.0	18.6	58.6	242.8	1,032.1	13.5
	1979	20.1	33.0	2.0	0.6	0.8	1.5	3.2	7.1	16.4	47.8	184.2	694.9	11.2
Diabetes mellitus . . . . .250	1987	15.8	-	0.1	0.1	0.3	1.4	3.5	9.7	26.9	61.1	123.3	213.4	9.8
	1986	15.4	0.1	0.1	0.1	0.4	1.5	3.6	9.5	26.0	59.2	121.9	213.9	9.6
	1979	14.8	0.1	0.1	0.1	0.4	1.4	3.6	9.0	25.8	61.3	130.3	211.6	9.8
Suicide . . . . .E950-E959	1987	12.7	...	...	0.7	12.9	15.4	15.0	15.9	16.6	19.4	25.8	22.1	11.7
	1986	12.8	...	...	0.8	13.1	15.7	15.2	16.4	17.0	19.7	25.2	20.8	11.9
	1979	12.1	...	...	0.4	12.4	16.3	15.4	16.5	16.6	17.8	20.8	17.9	11.7
Chronic liver disease and cirrhosis . . . . .571	1987	10.8	0.4	0.0	0.0	0.2	2.6	10.0	19.8	32.1	35.1	32.6	20.9	9.1
	1986	10.9	0.5	0.1	0.0	0.2	2.8	9.6	20.3	32.2	37.2	31.5	20.8	9.2
	1979	13.2	1.0	0.1	0.0	0.2	3.4	13.9	31.0	40.9	41.8	28.3	18.1	12.0
Atherosclerosis . . . . .440	1987	9.2	0.0	-	-	0.0	0.0	0.1	0.7	4.0	16.3	73.6	406.5	3.6
	1986	9.4	-	-	-	0.0	0.0	0.1	0.8	4.0	16.0	74.8	432.6	3.7
	1979	12.8	0.1	-	-	0.0	0.0	0.1	0.9	4.8	24.4	125.3	649.1	5.7
Nephritis, nephrotic syndrome, and nephrosis . . . .580-589	1987	9.1	5.8	0.1	0.1	0.2	0.6	1.2	3.3	9.2	26.4	78.9	218.1	4.8
	1986	9.0	6.7	0.2	0.1	0.2	0.6	1.3	3.2	9.5	26.8	79.4	216.4	4.9
	1979	7.0	6.4	0.2	0.2	0.3	0.7	1.5	3.7	8.5	23.7	64.7	155.2	4.3



Homicide and legal intervention . . . . .E960-E978	1987	8.7	7.2	2.3	1.2	14.0	15.1	10.8	7.7	5.5	4.3	4.8	5.1	8.6
	1986	9.0	7.4	2.7	1.1	14.2	16.1	11.4	8.3	5.4	4.4	4.6	4.7	9.0
	1979	10.0	5.0	2.5	1.1	14.5	18.2	14.3	10.8	7.0	5.4	4.8	5.0	10.2
	1987	8.2	6.7	0.6	0.1	0.3	0.7	1.4	3.2	9.1	24.2	66.5	188.8	4.5
Septicemia . . . . .038	1986	7.8	8.0	0.6	0.1	0.2	0.6	1.4	3.3	8.9	22.6	64.6	181.9	4.3
	1979	3.6	7.6	0.5	0.1	0.2	0.4	0.8	2.2	4.9	12.4	29.7	70.3	2.3
	1987	7.5	479.2	0.8	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0
Certain conditions originating in the perinatal period . . . . .760-779	1986	7.6	483.7	0.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0
	1979	10.4	680.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	1987	5.5	2.3	0.7	0.1	1.3	11.6	14.0	7.9	3.5	1.3	0.8	0.5	5.5
Human immunodeficiency virus infection . . . . .*042-*044	1986	---	---	---	---	---	---	---	---	---	---	---	---	---
	1979	---	---	---	---	---	---	---	---	---	---	---	---	---
	1987	---	---	---	---	---	---	---	---	---	---	---	---	---

<sup>1</sup> Figures for age not stated are included in "All ages" but not distributed among age groups.

<sup>2</sup> Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see tables E, 13, 14, 15, 17, and 21 for infant mortality rates, and Technical notes for discussion of the difference.

<sup>3</sup> For method of computation, see Technical notes.

<sup>4</sup> Because deaths from this cause occur primarily among infants, age-adjusted rates are not shown.

**Table 6. Deaths and death rates for the 10 leading causes of death in specified race-sex groups: United States, 1987**

[Rates per 100,000 population in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Rank order <sup>1</sup>	Cause of death, race, and sex (Ninth Revision International Classification of Diseases, 1975)	Number	Rate	Rank order <sup>1</sup>	Cause of death, race, and sex (Ninth Revision International Classification of Diseases, 1975)	Number	Rate
All races, both sexes				All other, male—Con.			
...	All causes	2,123,323	872.4	6	Pneumonia and influenza . . . . .480-487	4,278	23.8
1	Diseases of heart . . . . .390-398,402,404-429	760,353	312.4	7	Certain conditions originating in the perinatal period . . . . .760-779	3,882	21.6
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	476,927	195.9	8	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	3,749	20.9
3	Cerebrovascular diseases . . . . .430-438	149,835	61.6	9	Human immunodeficiency virus infection . . . . .*042-*044	3,388	18.9
4	Accidents and adverse effects . . . . .E800-E949	95,020	39.0	10	Chronic liver disease and cirrhosis . . . . .571	2,876	16.0
...	Motor vehicle accidents . . . . .E810-E825	48,290	19.8	...	All other causes . . . . .Residual	32,773	182.7
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	46,730	19.2	All other, female			
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	78,380	32.2	...	All causes	125,680	640.0
6	Pneumonia and influenza . . . . .480-487	69,225	28.4	1	Diseases of heart . . . . .390-398,402,404-429	41,467	211.1
7	Diabetes mellitus . . . . .250	38,532	15.8	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	25,558	130.1
8	Suicide . . . . .E950-E959	30,796	12.7	3	Cerebrovascular diseases . . . . .430-438	10,964	55.8
9	Chronic liver disease and cirrhosis . . . . .571	26,201	10.8	4	Diabetes mellitus . . . . .250	4,453	22.7
10	Atherosclerosis . . . . .440	22,474	9.2	5	Accidents and adverse effects . . . . .E800-E949	4,330	22.0
...	All other causes . . . . .Residual	375,580	154.3	...	Motor vehicle accidents . . . . .E810-E825	1,822	9.3
White, male				...	All other accidents and adverse effects . . . . .E800-E807,E826-E949	2,508	12.8
...	All causes	953,382	947.8	6	Pneumonia and influenza . . . . .480-487	3,136	16.0
1	Diseases of heart . . . . .390-398,402,404-429	342,063	340.1	7	Certain conditions originating in the perinatal period . . . . .760-779	2,928	14.9
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	221,757	220.5	8	Nephritis, nephrotic syndrome, and nephrosis. . . . .580-589	2,216	11.3
3	Accidents and adverse effects . . . . .E800-E949	53,936	53.6	9	Septicemia . . . . .038	2,107	10.7
...	Motor vehicle accidents . . . . .E810-E825	29,017	28.8	10	Homicide and legal intervention . . . . .E960-E978	2,099	10.7
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	24,919	24.8	...	All other causes . . . . .Residual	26,422	134.5
4	Cerebrovascular diseases . . . . .430-438	50,237	49.9	Black, male			
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	43,290	43.0	...	All causes	139,551	989.5
6	Pneumonia and influenza . . . . .480-487	29,284	29.1	1	Diseases of heart . . . . .390-398,402,404-429	38,934	276.1
7	Suicide . . . . .E950-E959	22,188	22.1	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	29,928	212.2
8	Chronic liver disease and cirrhosis . . . . .571	14,175	14.1	3	Accidents and adverse effects . . . . .E800-E949	9,159	64.9
9	Diabetes mellitus . . . . .250	13,553	13.5	...	Motor vehicle accidents . . . . .E810-E825	3,913	27.7
10	Nephritis, nephrotic syndrome, and nephrosis . . . . .580-589	8,800	8.7	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	5,246	37.2
...	All other causes . . . . .Residual	154,099	153.2	4	Cerebrovascular diseases . . . . .430-438	7,852	55.7
White, female				5	Homicide and legal intervention . . . . .E960-E978	7,518	53.3
...	All causes	889,685	845.5	6	Pneumonia and influenza . . . . .480-487	3,795	26.9
1	Diseases of heart . . . . .390-398,402,404-429	333,669	317.1	7	Certain conditions originating in the perinatal period . . . . .760-779	3,608	25.6
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	196,716	186.9	8	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	3,319	23.5
3	Cerebrovascular diseases . . . . .430-438	79,810	75.8	9	Human immunodeficiency virus infection . . . . .*042-*044	3,301	23.4
4	Pneumonia and influenza . . . . .480-487	32,527	30.9	10	Chronic liver disease and cirrhosis . . . . .571	2,574	18.3
5	Chronic obstructive pulmonary disease and allied conditions . . . . .490-496	29,378	27.9	...	All other causes . . . . .Residual	29,563	209.6
6	Accidents and adverse effects . . . . .E800-E949	25,874	24.6	Black, female			
...	Motor vehicle accidents . . . . .E810-E825	12,564	11.9	...	All causes	115,263	737.3
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	13,310	12.6	1	Diseases of heart . . . . .390-398,402,404-429	38,813	248.3
7	Diabetes mellitus . . . . .250	17,842	17.0	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	23,099	147.8
8	Atherosclerosis . . . . .440	13,040	12.4	3	Cerebrovascular diseases . . . . .430-438	10,055	64.3
9	Nephritis, nephrotic syndrome, and nephrosis . . . . .580-589	8,964	8.5	4	Diabetes mellitus . . . . .250	4,109	26.3
10	Septicemia . . . . .038	8,840	8.4	5	Accidents and adverse effects . . . . .E800-E949	3,618	23.1
...	All other causes . . . . .Residual	143,025	135.9	...	Motor vehicle accidents . . . . .E810-E825	1,374	8.8
All other, male				...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	2,244	14.4
...	All causes	154,576	861.5	6	Pneumonia and influenza . . . . .480-487	2,770	17.7
1	Diseases of heart . . . . .390-398,402,404-429	43,154	240.5	7	Certain conditions originating in the perinatal period . . . . .760-779	2,765	17.7
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	32,896	183.3	8	Nephritis, nephrotic syndrome, and nephrosis . . . . .580-589	2,070	13.2
3	Accidents and adverse effects . . . . .E800-E949	10,880	60.6	9	Septicemia . . . . .038	1,988	12.7
...	Motor vehicle accidents . . . . .E810-E825	4,887	27.2	10	Homicide and legal intervention . . . . .E960-E978	1,969	12.6
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	5,993	33.4	...	All other causes . . . . .Residual	24,007	153.6
4	Cerebrovascular diseases . . . . .430-438	8,824	49.2				
5	Homicide and legal intervention . . . . .E960-E978	7,876	43.9				

<sup>1</sup>Rank based on number of deaths; see Technical notes.

Table 7. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, 1987

[Rates per 100,000 population in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Rank order <sup>1</sup>	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number	Rate	Rank order <sup>1</sup>	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number	Rate
1-4 years				25-44 years			
...	All causes	7,473	51.6	...	All causes	131,164	169.0
1	Accidents and adverse effects . . . . .E800-E949	2,921	20.2	1	Accidents and adverse effects . . . . .E800-E949	27,484	35.4
...	Motor vehicle accidents . . . . .E810-E825	989	6.8	...	Motor vehicle accidents . . . . .E810-E825	16,405	21.1
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	1,932	13.3	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	11,079	14.3
2	Congenital anomalies . . . . .740-759	924	6.4	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	20,305	26.2
3	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	548	3.8	3	Diseases of heart . . . . .390-398,402,404-429	15,874	20.5
4	Homicide and legal intervention . . . .E960-E978	334	2.3	4	Suicide . . . . .E950-E959	11,787	15.2
5	Diseases of heart . . . . .390-398,402,404-429	322	2.2	5	Homicide and legal intervention . . . .E960-E978	10,268	13.2
6	Pneumonia and influenza . . . . .480-487	199	1.4	6	Human immunodeficiency virus infection. . . . .*042-*044	9,820	12.7
7	Meningitis . . . . .320-322	139	1.0	7	Chronic liver disease and cirrhosis . . . . .571	4,562	5.9
8	Certain conditions originating in the perinatal period . . . . .760-779	121	0.8	8	Cerebrovascular diseases . . . . .430-438	3,377	4.4
9	Human immunodeficiency virus infection . . . . .*042-*044	104	0.7	9	Pneumonia and influenza . . . . .480-487	1,936	2.5
10	Septicemia . . . . .038	90	0.6	10	Diabetes mellitus . . . . .250	1,821	2.3
...	All other causes . . . . .Residual	1,771	12.2	...	All other causes . . . . .Residual	23,930	30.8
5-14 years				45-64 years			
...	All causes	8,743	25.6	...	All causes	389,244	859.4
1	Accidents and adverse effects . . . . .E800-E949	4,198	12.3	1	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	136,664	301.7
...	Motor vehicle accidents . . . . .E810-E825	2,397	7.0	2	Diseases of heart . . . . .390-398,402,404-429	122,725	270.9
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	1,801	5.3	3	Cerebrovascular diseases . . . . .430-438	16,160	35.7
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	1,138	3.3	4	Accidents and adverse effects . . . . .E800-E949	14,807	32.7
3	Congenital anomalies . . . . .740-759	448	1.3	...	Motor vehicle accidents . . . . .E810-E825	7,021	15.5
4	Homicide and legal intervention . . . .E960-E978	407	1.2	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	7,786	17.2
5	Diseases of heart . . . . .390-398,402,404-429	324	0.9	5	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	12,593	27.8
6	Suicide . . . . .E950-E959	251	0.7	6	Chronic liver disease and cirrhosis . . . . .571	11,696	25.8
7	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	119	0.3	7	Diabetes mellitus . . . . .250	8,172	18.0
8	Pneumonia and influenza . . . . .480-487	94	0.3	8	Suicide . . . . .E950-E959	7,357	16.2
9	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	81	0.2	9	Pneumonia and influenza . . . . .480-487	5,505	12.2
10	Cerebrovascular diseases . . . . .430-438	73	0.2	10	Homicide and legal intervention . . . .E960-E978	3,007	6.6
...	All other causes . . . . .Residual	1,610	4.7	...	All other causes . . . . .Residual	50,558	111.6
15-24 years				65 years and over			
...	All causes	38,023	99.4	...	All causes	1,509,686	5059.9
1	Accidents and adverse effects . . . . .E800-E949	18,695	48.9	1	Diseases of heart . . . . .390-398,402,404-429	618,989	2074.6
...	Motor vehicle accidents . . . . .E810-E825	14,447	37.8	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	316,199	1059.8
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	4,248	11.1	3	Cerebrovascular diseases . . . . .430-438	129,784	435.0
2	Homicide and legal intervention . . . .E960-E978	5,354	14.0	4	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	64,451	216.0
3	Suicide . . . . .E950-E959	4,924	12.9	5	Pneumonia and influenza . . . . .480-487	60,542	202.9
4	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . .140-208	1,939	5.1	6	Diabetes mellitus . . . . .250	28,377	95.1
5	Diseases of heart . . . . .390-398,402,404-429	1,062	2.8	7	Accidents and adverse effects . . . . .E800-E949	25,838	86.6
6	Congenital anomalies . . . . .740-759	499	1.3	...	Motor vehicle accidents . . . . .E810-E825	6,781	22.7
7	Human immunodeficiency virus infection . . . . .*042-*044	492	1.3	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	19,057	63.9
8	Pneumonia and influenza . . . . .480-487	268	0.7	8	Atherosclerosis. . . . .440	21,372	71.6
9	Cerebrovascular diseases . . . . .430-438	244	0.6	9	Nephritis, nephrotic syndrome, and nephrosis . . . . .580-589	18,249	61.2
10	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	209	0.5	10	Septicemia . . . . .038	15,868	53.2
...	All other causes . . . . .Residual	4,337	11.3	...	All other causes . . . . .Residual	210,017	703.9

<sup>1</sup>Rank based on number of deaths; see Technical notes.

**Table 8. Deaths from 72 selected causes by age: United States, 1987**

[For explanation of asterisk preceding cause-of-death codes, see Technical notes]

<i>Cause of death</i> (Ninth Revision, International Classification of Diseases, 1975)	<i>All ages</i>	<i>Under 1 year</i>	<i>1-4 years</i>	<i>5-14 years</i>	<i>15-24 years</i>	<i>25-34 years</i>	<i>35-44 years</i>	<i>45-54 years</i>	<i>55-64 years</i>	<i>65-74 years</i>	<i>75-84 years</i>	<i>85 years and over</i>	<i>Not stated</i>
All causes . . . . .	2,123,323	38,408	7,473	8,743	38,023	57,701	73,463	115,920	273,324	486,103	584,335	439,248	582
Shigellosis and amebiasis . . . . .	.004,006	22	1	3	3	-	2	1	5	3	-	3	-
Certain other intestinal infections. . . . .	.007-009	307	93	14	3	4	10	11	17	43	53	53	-
Tuberculosis . . . . .	.010-018	1,755	1	6	2	23	101	162	176	284	389	413	195
Tuberculosis of respiratory system . . . . .	.010-012	1,398	-	2	1	16	72	107	137	234	320	340	167
Other tuberculosis . . . . .	.013-018	357	1	4	1	7	29	55	39	50	69	73	28
Whooping cough . . . . .	.033	1	-	1	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas . . . . .	.034-035	10	1	1	-	-	1	-	2	1	-	4	-
Meningococcal infection . . . . .	.036	258	66	72	21	20	17	13	16	11	7	3	-
Septicemia . . . . .	.038	19,916	254	90	50	106	293	496	754	2,002	4,270	6,184	5,414
Acute poliomyelitis . . . . .	.045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . .	.055	2	-	-	1	-	-	-	1	-	-	-	-
Viral hepatitis . . . . .	.070	1,182	2	3	5	62	125	155	130	209	267	185	39
Syphilis . . . . .	.090-097	98	14	-	-	2	3	7	3	12	20	29	8
All other infectious and parasitic diseases . . . . .	.001-003,005,020-032,037, 039-041,*042-*044,046-054,056-066,071-088,098-139	19,560	315	211	151	662	5,526	5,430	2,358	1,672	1,503	1,120	609
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	.140-208	476,927	101	548	1,138	1,939	5,371	14,934	38,240	98,424	149,046	120,765	46,388
Malignant neoplasms of lip, oral cavity, and pharynx . . . . .	.140-149	7,968	-	-	1	22	64	275	938	2,175	2,449	1,457	587
Malignant neoplasms of digestive organs and peritoneum . . . . .	.150-159	117,436	4	25	25	122	674	2,523	7,446	21,548	36,139	33,760	15,160
Malignant neoplasms of respiratory and intrathoracic organs . . . . .	.160-165	134,983	4	5	4	41	331	2,633	12,018	35,308	49,131	29,143	6,358
Malignant neoplasm of breast . . . . .	.174-175	41,211	-	-	-	16	674	3,065	5,453	9,484	10,753	8,097	3,666
Malignant neoplasms of genital organs . . . . .	.179-187	51,829	-	1	7	119	658	1,280	2,680	7,220	15,595	16,842	7,424
Malignant neoplasms of urinary organs . . . . .	.188-189	19,401	2	18	34	23	75	357	1,199	3,360	5,765	5,869	2,699
Malignant neoplasms of all other and unspecified sites . . . . .	.170-173,190-199	60,500	52	289	514	739	1,547	2,937	5,472	12,355	17,014	13,833	5,744
Leukemia . . . . .	.204-208	17,284	30	192	473	516	631	825	1,124	2,458	4,326	4,545	2,162
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . .	.200-203	26,315	9	18	80	341	717	1,039	1,910	4,516	7,874	7,219	2,588
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .	.210-239	6,570	59	55	81	106	183	246	368	841	1,646	1,929	1,056
Diabetes mellitus . . . . .	.250	38,532	-	10	31	119	618	1,203	2,258	5,914	10,789	11,470	6,118
Nutritional deficiencies . . . . .	.260-269	2,889	25	8	6	9	21	25	39	108	346	894	1,408
Anemias . . . . .	.280-285	3,813	19	46	62	103	199	151	132	266	597	1,077	1,161
Meningitis . . . . .	.320-322	1,161	214	139	37	21	74	83	91	127	160	132	83
Major cardiovascular diseases . . . . .	.390-448	963,611	1,094	383	416	1,394	4,862	15,176	38,608	105,935	217,512	307,438	270,663
Diseases of heart . . . . .	.390-398,402,404-429	760,353	950	322	324	1,062	3,652	12,222	32,708	90,017	178,072	238,101	202,816
Rheumatic fever and rheumatic heart disease . . . . .	.390-398	6,389	5	8	8	41	155	223	437	1,024	1,874	1,863	751
Hypertensive heart disease . . . . .	.402	20,678	1	-	1	14	111	543	1,374	3,133	5,021	5,952	4,526
Hypertensive heart and renal disease . . . . .	.404	2,521	-	-	1	2	18	53	75	220	498	870	784
Ischemic heart disease . . . . .	.410-414	512,138	26	11	15	130	1,212	7,124	21,406	61,349	123,611	164,063	133,134
Acute myocardial infarction . . . . .	.410	253,542	16	7	9	73	702	4,208	13,172	36,367	69,686	81,914	47,363
Other acute and subacute forms of ischemic heart disease . . . . .	.411	3,532	1	-	-	2	27	104	302	628	863	948	654
Angina pectoris . . . . .	.413	1,032	-	-	-	-	1	13	25	111	234	360	288
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	.412,414	254,032	9	4	6	55	482	2,799	7,907	24,243	52,828	80,841	84,829
Other diseases of endocardium . . . . .	.424	10,952	17	15	11	39	124	229	366	934	2,223	3,882	3,111
All other forms of heart disease . . . . .	.415-423,425-429	207,675	901	288	288	836	2,032	4,050	9,050	23,357	44,845	61,471	60,510
Hypertension with or without renal disease . . . . .	.401,403	8,139	2	1	1	15	47	156	339	865	1,925	2,569	2,218
Cerebrovascular diseases . . . . .	.430-438	149,835	127	54	73	244	967	2,410	4,672	11,488	27,767	52,330	49,687

Intracerebral and other intracranial hemorrhage . . . . .	.431-432	20,673	51	21	33	80	309	923	1,725	3,136	5,056	6,160	3,177	2
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	.434.0,434.9	22,405	17	5	7	22	57	122	397	1,478	4,048	8,083	8,166	3
Cerebral embolism. . . . .	.434.1	739	-	-	-	2	7	8	32	57	164	281	188	-
All other and late effects of cerebrovascular diseases . . . . .	.430,433,435-438	106,018	59	28	33	140	594	1,357	2,518	6,817	18,499	37,806	38,156	11
Atherosclerosis . . . . .	.440	22,474	1	-	-	2	11	42	174	870	2,875	6,844	11,653	2
Other diseases of arteries, arterioles, and capillaries . . . . .	.441-448	22,810	14	6	18	71	185	346	715	2,695	6,873	7,594	4,289	4
Acute bronchitis and bronchiolitis . . . . .	.466	548	63	20	10	3	7	15	17	40	75	139	159	-
Pneumonia and influenza . . . . .	.480-487	69,225	674	199	94	268	759	1,177	1,626	3,879	10,026	21,777	28,739	7
Pneumonia. . . . .	.480-486	68,593	666	193	93	262	751	1,161	1,609	3,842	9,962	21,622	28,425	7
Influenza . . . . .	.487	632	8	6	1	6	8	16	17	37	64	155	314	-
Chronic obstructive pulmonary diseases and allied conditions . . . . .	.490-496	78,380	53	49	119	209	264	633	2,145	10,448	25,707	27,938	10,806	9
Bronchitis, chronic and unspecified. . . . .	.490-491	3,581	36	23	14	16	19	26	80	403	932	1,243	789	-
Emphysema . . . . .	.492	14,483	8	1	-	-	14	78	417	2,268	5,221	5,020	1,453	3
Asthma . . . . .	.493	4,360	4	19	101	181	199	341	443	709	1,081	873	408	1
Other chronic obstructive pulmonary diseases and allied conditions. . . . .	.494-496	55,956	5	6	4	12	32	188	1,205	7,068	18,473	20,802	8,156	5
Ulcer of stomach and duodenum . . . . .	.531-533	6,358	10	5	5	7	58	131	266	646	1,414	2,113	1,703	-
Appendicitis. . . . .	.540-543	481	1	1	15	11	11	23	31	57	115	124	92	-
Hernia of abdominal cavity and intestinal obstruction without mention of hernia. . . . .	.550-553,560	5,547	94	33	17	25	57	75	138	378	938	1,829	1,962	1
Chronic liver disease and cirrhosis . . . . .	.571	26,201	16	4	10	71	1,140	3,422	4,618	7,078	6,202	3,034	598	8
Cholelithiasis and other disorders of gallbladder . . . . .	.574-575	3,032	1	-	-	6	19	27	81	254	639	1,051	954	-
Nephritis, nephrotic syndrome, and nephrosis . . . . .	.580-589	22,052	220	21	25	74	265	405	761	2,032	4,656	7,341	6,252	-
Acute glomerulonephritis and nephrotic syndrome. . . . .	.580-581	277	9	3	5	2	7	9	9	28	64	90	51	-
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	.582-583,587	1,509	4	-	5	16	23	53	65	142	297	495	409	-
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause. . . . .	.584-586,588-589	20,266	207	18	15	56	235	343	687	1,862	4,295	6,756	5,792	-
Infections of kidney . . . . .	.590	1,742	7	3	-	4	14	29	51	111	302	591	630	-
Hyperplasia of prostate. . . . .	.600	461	-	-	-	-	-	-	1	11	66	182	201	-
Complications of pregnancy, childbirth, and the puerperium . . . . .	.630-676	251	...	...	1	75	132	42	1	...	...	...	...	-
Pregnancy with abortive outcome. . . . .	.630-638	44	...	...	-	12	29	3	-	...	...	...	...	-
Other complications of pregnancy, childbirth, and the puerperium. . . . .	.640-676	207	...	...	1	63	103	39	1	...	...	...	...	-
Congenital anomalies . . . . .	.740-759	12,333	7,884	924	448	499	448	387	350	409	446	383	154	1
Certain conditions originating in the perinatal period . . . . .	.760-779	18,222	18,070	121	14	6	2	4	-	1	1	1	-	2
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	.767-769	4,354	4,322	17	7	5	1	2	-	-	-	-	-	-
Other conditions originating in the perinatal period . . . . .	.760-766,770-779	13,868	13,748	104	7	1	1	2	-	1	1	1	-	2
Symptoms, signs, and ill-defined conditions. . . . .	.780-799	31,261	6,137	305	159	880	2,230	2,166	1,815	2,931	4,282	5,298	4,974	84
All other diseases . . . . .	.Residual	160,673	1,639	867	900	1,925	4,193	6,475	8,087	16,293	31,574	47,943	40,753	24
Accidents and adverse effects . . . . .	.E800-E949	95,020	950	2,921	4,198	18,695	16,622	10,862	6,982	7,825	8,686	9,929	7,223	127
Motor vehicle accidents . . . . .	.E810-E825	48,290	201	989	2,397	14,447	10,467	5,938	3,576	3,445	3,277	2,726	778	49
All other accidents and adverse effects. . . . .	.E800-E807,E826-E949	46,730	749	1,932	1,801	4,248	6,155	4,924	3,406	4,380	5,409	7,203	6,445	78
Suicide . . . . .	.E950-E959	30,796	...	...	251	4,924	6,655	5,132	3,707	3,650	3,428	2,402	634	13
Homicide and legal intervention . . . . .	.E960-E978	21,103	273	334	407	5,354	6,546	3,722	1,803	1,204	763	449	147	101
All other external causes. . . . .	.E980-E999	3,023	57	76	63	417	874	642	264	242	180	115	62	31

**Table 9. Death rates for 72 selected causes by age: United States, 1987**

[Rates per 100,000 population in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

<i>Cause of death</i> (Ninth Revision, International Classification of Diseases, 1975)	<i>All ages</i> <sup>1</sup>	<i>Under 1 year</i> <sup>2</sup>	<i>1-4 years</i>	<i>5-14 years</i>	<i>15-24 years</i>	<i>25-34 years</i>	<i>35-44 years</i>	<i>45-54 years</i>	<i>55-64 years</i>	<i>65-74 years</i>	<i>75-84 years</i>	<i>85 years and over</i>
All causes . . . . .	872.4	1,018.5	51.6	25.6	99.4	133.2	214.1	498.0	1,241.3	2,751.3	6,282.5	15,320.8
Shigellosis and amebiasis . . . . .004,006	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.1
Certain other intestinal infections. . . . .007-009	0.1	2.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.8
Tuberculosis . . . . .010-018	0.7	0.0	0.0	0.0	0.1	0.2	0.5	0.8	1.3	2.2	4.4	6.8
Tuberculosis of respiratory system . . . . .010-012	0.6	-	0.0	0.0	0.0	0.2	0.3	0.6	1.1	1.8	3.7	5.8
Other tuberculosis . . . . .013-018	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.4	0.8	1.0
Whooping cough . . . . .033	0.0	-	0.0	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas . . . . .034-035	0.0	0.0	0.0	-	-	-	0.0	-	0.0	0.0	-	0.1
Meningococcal infection . . . . .036	0.1	1.8	0.5	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Septicemia . . . . .038	8.2	6.7	0.6	0.1	0.3	0.7	1.4	3.2	9.1	24.2	66.5	188.8
Acute poliomyelitis . . . . .045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . .055	0.0	-	-	0.0	-	-	-	-	0.0	-	-	-
Viral hepatitis . . . . .070	0.5	0.1	0.0	0.0	0.2	0.3	0.5	0.6	0.9	1.5	2.0	1.4
Syphilis . . . . .090-097	0.0	0.4	-	-	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.3
All other infectious and parasitic diseases. . .001-003,005,020-032,037,039-041,*042-*044,046-054,056-066,071-088,098-139	8.0	8.4	1.5	0.4	1.7	12.8	15.8	10.1	7.6	8.5	12.0	21.2
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	195.9	2.7	3.8	3.3	5.1	12.4	43.5	164.3	447.0	843.6	1,298.4	1,618.0
Malignant neoplasms of lip, oral cavity, and pharynx . . . . .140-149	3.3	-	-	0.0	0.1	0.1	0.8	4.0	9.9	13.9	15.7	20.5
Malignant neoplasms of digestive organs and peritoneum . . . . .150-159	48.2	0.1	0.2	0.1	0.3	1.6	7.4	32.0	97.9	204.5	363.0	528.8
Malignant neoplasms of respiratory and intrathoracic organs . . . . .160-165	55.5	0.1	0.0	0.0	0.1	0.8	7.7	51.6	160.4	278.1	313.3	221.8
Malignant neoplasm of breast . . . . .174-175	16.9	-	-	-	0.0	1.6	8.9	23.4	43.1	60.9	87.1	127.9
Malignant neoplasms of genital organs . . . . .179-187	21.3	-	0.0	0.0	0.3	1.5	3.7	11.5	32.8	88.3	181.1	258.9
Malignant neoplasms of urinary organs . . . . .188-189	8.0	0.1	0.1	0.1	0.1	0.2	1.0	5.2	15.3	32.6	63.1	94.1
Malignant neoplasms of all other and unspecified sites . . . . .170-173,190-199	24.9	1.4	2.0	1.5	1.9	3.6	8.6	23.5	56.1	96.3	148.7	200.3
Leukemia . . . . .204-208	7.1	0.8	1.3	1.4	1.3	1.5	2.4	4.8	11.2	24.5	48.9	75.4
Other malignant neoplasms of lymphatic and hematopoietic tissues. . . . .200-203	10.8	0.2	0.1	0.2	0.9	1.7	3.0	8.2	20.5	44.6	77.6	90.3
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . .210-239	2.7	1.6	0.4	0.2	0.3	0.4	0.7	1.6	3.8	9.3	20.7	36.8
Diabetes mellitus . . . . .250	15.8	-	0.1	0.1	0.3	1.4	3.5	9.7	26.9	61.1	123.3	213.4
Nutritional deficiencies . . . . .260-269	1.2	0.7	0.1	0.0	0.0	0.1	0.2	0.5	2.0	9.6	49.1	49.1
Anemias . . . . .280-285	1.6	0.5	0.3	0.2	0.3	0.5	0.4	0.6	1.2	3.4	11.6	40.5
Meningitis . . . . .320-322	0.5	5.7	1.0	0.1	0.1	0.2	0.2	0.4	0.6	0.9	1.4	2.9
Major cardiovascular diseases . . . . .390-448	395.9	29.0	2.6	1.2	3.6	11.2	44.2	165.9	481.1	1,231.1	3,305.4	9,440.6
Diseases of heart . . . . .390-398,402,404-429	312.4	25.2	2.2	0.9	2.8	8.4	35.6	140.5	408.8	1,007.9	2,560.0	7,074.2
Rheumatic fever and rheumatic heart disease . .390-398	2.6	0.1	0.1	0.0	0.1	0.4	0.7	1.9	4.7	10.6	20.0	26.2
Hypertensive heart disease . . . . .402	8.5	0.0	-	0.0	0.0	0.3	1.6	5.9	14.2	28.4	64.0	157.9
Hypertensive heart and renal disease . . . . .404	1.0	-	-	0.0	0.0	0.2	0.3	1.0	2.8	9.4	27.3	27.3
Ischemic heart disease . . . . .410-414	210.4	0.7	0.1	0.0	0.3	2.8	20.8	92.0	278.6	699.6	1,763.9	4,643.7
Acute myocardial infarction . . . . .410	104.2	0.4	0.0	0.0	0.2	1.6	12.3	56.6	165.2	394.4	880.7	1,652.0
Other acute and subacute forms of ischemic heart disease . . . . .411	1.5	0.0	-	-	0.0	0.1	0.3	1.3	2.9	4.9	10.2	22.8
Angina pectoris . . . . .413	0.4	-	-	-	-	0.0	0.0	0.1	0.5	1.3	3.9	10.0
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .412,414	104.4	0.2	0.0	0.0	0.1	1.1	8.2	34.0	110.1	299.0	869.2	2,958.8
Other diseases of endocardium . . . . .424	4.5	0.5	0.1	0.0	0.1	0.3	0.7	1.6	4.2	12.6	41.7	108.5
All other forms of heart disease . . . . .415-423,425-429	85.3	23.9	2.0	0.8	2.2	4.7	11.8	38.9	106.1	253.8	660.9	2,110.6
Hypertension with or without renal disease . . . .401,403	3.3	0.1	0.0	0.0	0.0	0.1	0.5	1.5	3.9	10.9	27.6	77.4
Cerebrovascular diseases . . . . .430-438	61.6	3.4	0.4	0.2	0.6	2.2	7.0	20.1	52.2	157.2	562.6	1733.1

See footnotes at end of table.

Intracerebral and other intracranial hemorrhage . . . . .	.431-432	8.5	1.4	0.1	0.1	0.2	0.7	2.7	7.4	14.2	28.6	66.2	110.8
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	.434.0,434.9	9.2	0.5	0.0	0.0	0.1	0.1	0.4	1.7	6.7	22.9	86.9	284.8
Cerebral embolism . . . . .	.434.1	0.3	-	-	-	0.0	0.0	0.0	0.1	0.3	0.9	3.0	6.6
All other and late effects of cerebrovascular diseases . . . . .	.430,433,435-438	43.6	1.6	0.2	0.1	0.4	1.4	4.0	10.8	31.0	104.7	406.5	1330.9
Atherosclerosis . . . . .	.440	9.2	0.0	-	-	0.0	0.0	0.1	0.7	4.0	16.3	73.6	406.5
Other diseases of arteries, arterioles, and capillaries . . . . .	.441-448	9.4	0.4	0.0	0.1	0.2	0.4	1.0	3.1	12.2	38.9	81.6	149.6
Acute bronchitis and bronchiolitis . . . . .	.466	0.2	1.7	0.1	0.0	0.0	0.0	0.1	0.2	0.4	1.5	5.5	5.5
Pneumonia and influenza . . . . .	.480-487	28.4	17.9	1.4	0.3	0.7	1.8	3.4	7.0	17.6	56.7	234.1	1002.4
Pneumonia . . . . .	.480-486	28.2	17.7	1.3	0.3	0.7	1.7	3.4	6.9	17.4	56.4	232.5	991.5
Influenza . . . . .	.487	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	1.7	11.0
Chronic obstructive pulmonary diseases and allied conditions . . . . .	.490-496	32.2	1.4	0.3	0.3	0.5	0.6	1.8	9.2	47.4	145.5	300.4	376.9
Bronchitis, chronic and unspecified . . . . .	.490-491	1.5	1.0	0.2	0.0	0.0	0.0	0.1	0.3	1.8	5.3	13.4	27.5
Emphysema . . . . .	.492	6.0	0.2	0.0	-	-	0.0	0.2	1.8	10.3	29.6	54.0	50.7
Asthma . . . . .	.493	1.8	0.1	0.1	0.3	0.5	0.5	1.0	1.9	3.2	6.1	9.4	14.2
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	.494-496	23.0	0.1	0.0	0.0	0.0	0.1	0.5	5.2	32.1	104.6	223.7	284.5
Ulcer of stomach and duodenum . . . . .	.531-533	2.6	0.3	0.0	0.0	0.0	0.1	0.4	1.1	2.9	8.0	22.7	59.4
Appendicitis . . . . .	.540-543	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.7	1.3	3.2
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	.550-553,560	2.3	2.5	0.2	0.0	0.1	0.1	0.2	0.6	1.7	5.3	19.7	68.4
Chronic liver disease and cirrhosis . . . . .	.571	10.8	0.4	0.0	0.0	0.2	2.6	10.0	19.8	32.1	35.1	32.6	20.9
Cholelithiasis and other disorders of gallbladder . . . . .	.574-575	1.2	0.0	0.0	0.0	0.0	0.1	0.3	1.2	3.6	11.3	33.3	33.3
Nephritis, nephrotic syndrome, and nephrosis . . . . .	.580-589	9.1	5.8	0.1	0.1	0.2	0.6	1.2	3.3	9.2	26.4	78.9	218.1
Acute glomerulonephritis and nephrotic syndrome . . . . .	.580-581	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.0	1.8
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	.582-583,587	0.6	0.1	-	0.0	0.0	0.1	0.2	0.3	0.6	1.7	5.3	14.3
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	.584-586,588-589	8.3	5.5	0.1	0.0	0.1	0.5	1.0	3.0	8.5	24.3	72.6	202.0
Infections of kidney . . . . .	.590	0.7	0.2	0.0	-	0.0	0.0	0.1	0.2	0.5	1.7	6.4	22.0
Hyperplasia of prostate . . . . .	.600	0.2	-	-	-	-	-	-	0.0	0.0	0.4	2.0	7.0
Complications of pregnancy, childbirth, and the puerperium . . . . .	.630-676	0.1	...	...	0.0	0.2	0.3	0.1	0.0	...	...	...	...
Pregnancy with abortive outcome . . . . .	.630-638	0.0	...	...	-	0.0	0.1	0.0	-	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium . . . . .	.640-676	0.1	...	...	0.0	0.2	0.2	0.1	0.0	...	...	...	...
Congenital anomalies . . . . .	.740-759	5.1	209.1	6.4	1.3	1.3	1.0	1.1	1.5	1.9	2.5	4.1	5.4
Certain conditions originating in the perinatal period . . . . .	.760-779	7.5	479.2	0.8	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	-
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	.767-769	1.8	114.6	0.1	0.0	0.0	0.0	0.0	-	-	-	-	-
Other conditions originating in the perinatal period . . . . .	.760-766,770-779	5.7	364.6	0.7	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	-
Symptoms, signs, and ill-defined conditions . . . . .	.780-799	12.8	162.7	2.1	0.5	2.3	5.1	6.3	7.8	13.3	24.2	57.0	173.5
All other diseases . . . . .	.Residual	66.0	43.5	6.0	2.6	5.0	9.7	18.9	34.7	74.0	178.7	515.5	1,421.5
Accidents and adverse effects . . . . .	E800-E949	39.0	25.2	20.2	12.3	48.9	38.4	31.7	30.0	35.5	49.2	106.8	251.9
Motor vehicle accidents . . . . .	E810-E825	19.8	5.3	6.8	7.0	37.8	24.2	17.3	15.4	15.6	18.5	29.3	27.1
All other accidents and adverse effects . . . . .	E800-E807,E826-E949	19.2	19.9	13.3	5.3	11.1	14.2	14.4	14.6	19.9	30.6	77.4	224.8
Suicide . . . . .	E950-E959	12.7	...	...	0.7	12.9	15.4	15.0	15.9	16.6	19.4	25.8	22.1
Homicide and legal intervention . . . . .	E960-E978	8.7	7.2	2.3	1.2	14.0	15.1	10.8	7.7	5.5	4.3	4.8	5.1
All other external causes . . . . .	E980-E999	1.2	1.5	0.5	0.2	1.1	2.0	1.9	1.1	1.1	1.0	1.2	2.2

<sup>1</sup>Figures for age not stated included in All ages but not distributed among age groups.

<sup>2</sup>Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see tables E, 13, 14, 15, 17, and 21 for infant mortality rates, and Technical notes for further discussion of the difference.

**Table 10. Deaths from 72 selected causes by race and sex: United States, 1987**

[For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes . . . . .	2,123,323	1,107,958	1,015,365	1,843,067	953,382	889,685	280,256	154,576	125,680	254,814	139,551	115,263
Shigellosis and amebiasis . . . . .004,006	22	11	11	16	7	9	6	4	2	5	4	1
Certain other intestinal infections . . . . .007-009	307	137	170	246	111	135	61	26	35	56	23	33
Tuberculosis . . . . .010-018	1,755	1,169	586	1,082	724	358	673	445	228	582	395	187
Tuberculosis of respiratory system . . . . .010-012	1,398	971	427	900	623	277	498	348	150	432	310	122
Other tuberculosis . . . . .013-018	357	198	159	182	101	81	175	97	78	150	85	65
Whooping cough . . . . .033	1	-	1	-	-	-	1	-	1	1	-	1
Streptococcal sore throat, scarlatina, and erysipelas . . . . .034-035	10	4	6	10	4	6	-	-	-	-	-	-
Meningococcal infection . . . . .036	258	137	121	192	100	92	66	37	29	65	36	29
Septicemia . . . . .038	19,916	8,969	10,947	15,936	7,096	8,840	3,980	1,873	2,107	3,748	1,760	1,988
Acute poliomyelitis . . . . .045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . .055	2	2	-	2	2	-	-	-	-	-	-	-
Viral hepatitis . . . . .070	1,182	725	457	935	580	355	247	145	102	165	92	73
Syphilis . . . . .090-097	98	57	41	51	32	19	47	25	22	45	23	22
All other infectious and parasitic diseases . . . . .001-003,005,020-032,037,039-041,*042-*044,046-054,056-066,071-088,098-139	19,560	15,385	4,175	14,085	11,307	2,778	5,475	4,078	1,397	5,250	3,920	1,330
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .140-208	476,927	254,653	222,274	418,473	221,757	196,716	58,454	32,896	25,558	53,027	29,928	23,099
Malignant neoplasms of lip, oral cavity, and pharynx . . . . .140-149	7,968	5,310	2,658	6,679	4,344	2,335	1,289	966	323	1,161	864	297
Malignant neoplasms of digestive organs and peritoneum . . . . .150-159	117,436	61,792	55,644	101,519	53,100	48,419	15,917	8,692	7,225	14,016	7,544	6,472
Malignant neoplasms of respiratory and intrathoracic organs . . . . .160-165	134,983	91,083	43,900	119,072	79,604	39,468	15,911	11,479	4,432	14,622	10,647	3,975
Malignant neoplasm of breast . . . . .174-175	41,211	312	40,899	36,569	272	36,297	4,642	40	4,602	4,291	39	4,252
Malignant neoplasms of genital organs . . . . .179-187	51,829	28,504	23,325	43,951	23,742	20,209	7,878	4,762	3,116	7,378	4,545	2,833
Malignant neoplasms of urinary organs . . . . .188-189	19,401	12,444	6,957	17,669	11,420	6,249	1,732	1,024	708	1,575	918	657
Malignant neoplasms of all other and unspecified sites . . . . .170-173,190-199	60,500	32,269	28,231	53,867	28,713	25,154	6,633	3,556	3,077	6,026	3,255	2,771
Leukemia . . . . .204-208	17,284	9,387	7,897	15,569	8,480	7,089	1,715	907	808	1,479	781	698
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . .200-203	26,315	13,552	12,763	23,578	12,082	11,496	2,737	1,470	1,267	2,479	1,335	1,144
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	6,570	3,065	3,505	5,802	2,683	3,119	768	382	386	689	339	350
Diabetes mellitus . . . . .250	38,532	16,237	22,295	31,395	13,553	17,842	7,137	2,684	4,453	6,497	2,388	4,109
Nutritional deficiencies . . . . .260-269	2,889	1,107	1,782	2,478	901	1,577	411	206	205	383	194	189
Anemias . . . . .280-285	3,813	1,670	2,143	3,027	1,269	1,758	786	401	385	739	378	361
Meningitis . . . . .320-322	1,161	645	516	812	460	352	349	185	164	319	169	150
Major cardiovascular diseases . . . . .390-448	963,611	470,076	493,535	853,480	415,406	438,074	110,131	54,670	55,461	100,921	49,201	51,720
Diseases of heart . . . . .390-398,402,404-429	760,353	385,217	375,136	675,732	342,063	333,669	84,621	43,154	41,467	77,747	38,934	38,813
Rheumatic fever and rheumatic heart disease . . . . .390-398	6,389	1,934	4,455	5,875	1,767	4,108	514	167	347	412	132	280
Hypertensive heart disease . . . . .402	20,678	8,855	11,823	15,119	6,245	8,874	5,559	2,610	2,949	5,276	2,465	2,811
Hypertensive heart and renal disease . . . . .404	2,521	997	1,524	1,828	685	1,143	693	312	381	662	299	363
Ischemic heart disease . . . . .410-414	512,138	267,757	244,381	466,690	244,461	222,229	45,448	23,296	22,152	41,070	20,521	20,549
Acute myocardial infarction . . . . .410	253,542	140,252	113,290	230,809	128,433	102,376	22,733	11,819	10,914	20,453	10,344	10,109
Other acute and subacute forms of ischemic heart disease . . . . .411	3,532	2,073	1,459	3,007	1,750	1,257	525	323	202	482	290	192
Angina pectoris . . . . .413	1,032	472	560	919	429	490	113	43	70	107	40	67
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .412,414	254,032	124,960	129,072	231,955	113,849	118,106	22,077	11,111	10,966	20,028	9,847	10,181
Other diseases of endocardium . . . . .424	10,952	4,986	5,966	9,971	4,524	5,447	981	462	519	887	414	473
All other forms of heart disease . . . . .415-423,425-429	207,675	100,688	106,987	176,249	84,381	91,868	31,426	16,307	15,119	29,440	15,103	14,337



Hypertension with or without renal disease . . . . .	.401,403	8,139	3,530	4,609	6,250	2,692	3,558	1,889	838	1,051	1,804	795	1,009
Cerebrovascular diseases . . . . .	.430-438	149,835	59,061	90,774	130,047	50,237	79,810	19,788	8,824	10,964	17,907	7,852	10,055
Intracerebral and other intracranial hemorrhage . . . . .	.431-432	20,673	9,378	11,295	16,922	7,423	9,499	3,751	1,955	1,796	3,238	1,684	1,554
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	.434.0,434.9	22,405	8,752	13,653	19,966	7,638	12,328	2,439	1,114	1,325	2,241	999	1,242
Cerebral embolism . . . . .	.434.1	739	305	434	671	278	393	68	27	41	61	24	37
All other and late effects of cerebrovascular diseases . . . . .	.430,433,435-438	106,018	40,626	65,392	92,488	34,898	57,590	13,530	5,728	7,802	12,367	5,145	7,222
Atherosclerosis . . . . .	.440	22,474	8,428	14,046	20,726	7,686	13,040	1,748	742	1,006	1,622	680	942
Other diseases of arteries, arterioles, and capillaries . . . . .	.441-448	22,810	13,840	8,970	20,725	12,728	7,997	2,085	1,112	973	1,841	940	901
Acute bronchitis and bronchiolitis . . . . .	.466	548	267	281	485	236	249	63	31	32	56	27	29
Pneumonia and influenza . . . . .	.480-487	69,225	33,562	35,663	61,811	29,284	32,527	7,414	4,278	3,136	6,565	3,795	2,770
Pneumonia . . . . .	.480-486	68,593	33,310	35,283	61,216	29,048	32,168	7,377	4,262	3,115	6,543	3,785	2,758
Influenza . . . . .	.487	632	252	380	595	236	359	37	16	21	22	10	12
Chronic obstructive pulmonary diseases and allied conditions . . . . .	.490-496	78,380	47,039	31,341	72,668	43,290	29,378	5,712	3,749	1,963	5,052	3,319	1,733
Bronchitis, chronic and unspecified . . . . .	.490-491	3,581	1,884	1,697	3,379	1,766	1,613	202	118	84	169	100	69
Emphysema . . . . .	.492	14,483	9,182	5,301	13,663	8,566	5,097	820	616	204	719	543	176
Asthma . . . . .	.493	4,360	1,730	2,630	3,327	1,244	2,083	1,033	486	547	920	428	492
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	.494-496	55,956	34,243	21,713	52,299	31,714	20,585	3,657	2,529	1,128	3,244	2,248	996
Ulcer of stomach and duodenum . . . . .	.531-533	6,358	3,192	3,166	5,740	2,828	2,912	618	364	254	543	316	227
Appendicitis . . . . .	.540-543	481	255	226	378	203	175	103	52	51	95	47	48
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	.550-553,560	5,547	2,091	3,456	4,867	1,749	3,118	680	342	338	635	322	313
Chronic liver disease and cirrhosis . . . . .	.571	26,201	17,051	9,150	21,766	14,175	7,591	4,435	2,876	1,559	3,916	2,574	1,342
Cholelithiasis and other disorders of gallbladder . . . . .	.574-575	3,032	1,297	1,735	2,721	1,181	1,540	311	116	195	263	90	173
Nephritis, nephrotic syndrome, and nephrosis . . . . .	.580-589	22,052	10,872	11,180	17,764	8,800	8,964	4,288	2,072	2,216	3,975	1,905	2,070
Acute glomerulonephritis and nephrotic syndrome . . . . .	.580-581	277	133	144	221	103	118	56	30	26	48	26	22
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	.582-583,587	1,509	741	768	1,204	587	617	305	154	151	277	139	138
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	.584-586,588-589	20,266	9,998	10,268	16,339	8,110	8,229	3,927	1,888	2,039	3,650	1,740	1,910
Infections of kidney . . . . .	.590	1,742	536	1,206	1,526	458	1,068	216	78	138	196	74	122
Hyperplasia of prostate . . . . .	.600	461	461	...	406	406	...	55	55	...	50	50	...
Complications of pregnancy, childbirth, and the puerperium . . . . .	.630-676	251	...	251	153	...	153	98	...	98	91	...	91
Pregnancy with abortive outcome . . . . .	.630-638	44	...	44	25	...	25	19	...	19	18	...	18
Other complications of pregnancy, childbirth, and the puerperium . . . . .	.640-676	207	...	207	128	...	128	79	...	79	73	...	73
Congenital anomalies . . . . .	.740-759	12,333	6,604	5,729	9,910	5,364	4,546	2,423	1,240	1,183	2,076	1,087	989
Certain conditions originating in the perinatal period . . . . .	.760-779	18,222	10,442	7,780	11,412	6,560	4,852	6,810	3,882	2,928	6,373	3,608	2,765
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	.767-769	4,354	2,658	1,696	2,974	1,850	1,124	1,380	808	572	1,294	753	541
Other conditions originating in the perinatal period . . . . .	.760-766,770-779	13,868	7,784	6,084	8,438	4,710	3,728	5,430	3,074	2,356	5,079	2,855	2,224
Symptoms, signs, and ill-defined conditions . . . . .	.780-799	31,261	17,440	13,821	24,184	13,322	10,862	7,077	4,118	2,959	6,562	3,817	2,745
All other diseases . . . . .	.Residual	160,673	75,661	85,012	137,905	63,865	74,040	22,768	11,796	10,972	20,893	10,788	10,105
Accidents and adverse effects . . . . .	.E800-E949	95,020	64,816	30,204	79,810	53,936	25,874	15,210	10,880	4,330	12,777	9,159	3,618
Motor vehicle accidents . . . . .	.E810-E825	48,290	33,904	14,386	41,581	29,017	12,564	6,709	4,887	1,822	5,287	3,913	1,374
All other accidents and adverse effects . . . . .	.E800-E807,E826-E949	46,730	30,912	15,818	38,229	24,919	13,310	8,501	5,993	2,508	7,490	5,246	2,244
Suicide . . . . .	.E950-E959	30,796	24,272	6,524	28,217	22,188	6,029	2,579	2,084	495	1,963	1,635	328
Homicide and legal intervention . . . . .	.E960-E978	21,103	15,855	5,248	11,128	7,979	3,149	9,975	7,876	2,099	9,487	7,518	1,969
All other external causes . . . . .	.E980-E999	3,023	2,196	827	2,194	1,566	628	829	630	199	754	570	184

Table 11. Death rates for 72 selected causes by race and sex: United States, 1987

[Rates per 100,000 population in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes . . . . .	872.4	934.7	813.1	895.5	947.8	845.5	745.8	861.5	640.0	856.9	989.5	737.3
Shigellosis and amebiasis . . . . .004,006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections. . . . .007-009	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2
Tuberculosis . . . . .010-018	0.7	1.0	0.5	0.5	0.7	0.3	1.8	2.5	1.2	2.0	2.8	1.2
Tuberculosis of respiratory system . . . . .010-012	0.6	0.8	0.3	0.4	0.6	0.3	1.3	1.9	0.8	1.5	2.2	0.8
Other tuberculosis . . . . .013-018	0.1	0.2	0.1	0.1	0.1	0.1	0.5	0.5	0.4	0.5	0.6	0.4
Whooping cough . . . . .033	0.0	-	0.0	-	-	-	0.0	-	0.0	0.0	-	0.0
Streptococcal sore throat, scarlatina, and erysipelas . . . . .034-035	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
Meningococcal infection . . . . .036	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.3	0.2
Septicemia . . . . .038	8.2	7.6	8.8	7.7	7.1	8.4	10.6	10.4	10.7	12.6	12.5	12.7
Acute poliomyelitis . . . . .045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . .055	0.0	0.0	-	0.0	0.0	-	-	-	-	-	-	-
Viral hepatitis . . . . .070	0.5	0.6	0.4	0.5	0.6	0.3	0.7	0.8	0.5	0.6	0.7	0.5
Syphilis . . . . .090-097	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.1
All other infectious and parasitic diseases. . . . .001-003,005,020-032,037,039-041,*042-*044,046-054,056-066,071-088,098-139	8.0	13.0	3.3	6.8	11.2	2.6	14.6	22.7	7.1	17.7	27.8	8.5
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	195.9	214.8	178.0	203.3	220.5	186.9	155.5	183.3	130.1	178.3	212.2	147.8
Malignant neoplasms of lip, oral cavity, and pharynx . . . . .140-149	3.3	4.5	2.1	3.2	4.3	2.2	3.4	5.4	1.6	3.9	6.1	1.9
Malignant neoplasms of digestive organs and peritoneum . . . . .150-159	48.2	52.1	44.6	49.3	52.8	46.0	42.4	48.4	36.8	47.1	53.5	41.4
Malignant neoplasms of respiratory and intrathoracic organs . . . . .160-165	55.5	76.8	35.2	57.9	79.1	37.5	42.3	64.0	22.6	49.2	75.5	25.4
Malignant neoplasm of breast . . . . .174-175	16.9	0.3	32.8	17.8	0.3	34.5	12.4	0.2	23.4	14.4	0.3	27.2
Malignant neoplasms of genital organs . . . . .179-187	21.3	24.0	18.7	21.4	23.6	19.2	21.0	26.5	15.9	24.8	32.2	18.1
Malignant neoplasms of urinary organs . . . . .188-189	8.0	10.5	5.6	8.6	11.4	5.9	4.6	5.7	3.6	5.3	6.5	4.2
Malignant neoplasms of all other and unspecified sites . . . . .170-173,190-199	24.9	27.2	22.6	26.2	28.5	23.9	17.7	19.8	15.7	20.3	23.1	17.7
Leukemia . . . . .204-208	7.1	7.9	6.3	7.6	8.4	6.7	4.6	5.1	4.1	5.0	5.5	4.5
Other malignant neoplasms of lymphatic and hematopoietic tissues. . . . .200-203	10.8	11.4	10.2	11.5	12.0	10.9	7.3	8.2	6.5	8.3	9.5	7.3
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	2.7	2.6	2.8	2.8	2.7	3.0	2.0	2.1	2.0	2.3	2.4	2.2
Diabetes mellitus . . . . .250	15.8	13.7	17.9	15.3	13.5	17.0	19.0	15.0	22.7	21.8	16.9	26.3
Nutritional deficiencies . . . . .260-269	1.2	0.9	1.4	1.2	0.9	1.5	1.1	1.1	1.0	1.3	1.4	1.2
Anemias . . . . .280-285	1.6	1.4	1.7	1.5	1.3	1.7	2.1	2.2	2.0	2.5	2.7	2.3
Meningitis . . . . .320-322	0.5	0.5	0.4	0.4	0.5	0.3	0.9	1.0	0.8	1.1	1.2	1.0
Major cardiovascular diseases . . . . .390-448	395.9	396.6	395.2	414.7	413.0	416.3	293.1	304.7	282.4	339.4	348.9	330.8
Diseases of heart . . . . .390-398,402,404-429	312.4	325.0	300.4	328.3	340.1	317.1	225.2	240.5	211.1	261.5	276.1	248.3
Rheumatic fever and rheumatic heart disease . . . . .390-398	2.6	1.6	3.6	2.9	1.8	3.9	1.4	0.9	1.8	1.4	0.9	1.8
Hypertensive heart disease . . . . .402	8.5	7.5	9.5	7.3	6.2	8.4	14.8	14.5	15.0	17.7	17.5	18.0
Hypertensive heart and renal disease . . . . .404	1.0	0.8	1.2	0.9	0.7	1.1	1.8	1.7	1.9	2.2	2.1	2.3
Ischemic heart disease . . . . .410-414	210.4	225.9	195.7	226.7	243.0	211.2	120.9	129.8	112.8	138.1	145.5	131.4
Acute myocardial infarction . . . . .410	104.2	118.3	90.7	112.1	127.7	97.3	60.5	65.9	55.6	68.8	73.3	64.7
Other acute and subacute forms of ischemic heart disease . . . . .411	1.5	1.7	1.2	1.5	1.7	1.2	1.4	1.8	1.0	1.6	2.1	1.2
Angina pectoris . . . . .413	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.2	0.4	0.4	0.3	0.4
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .412,414	104.4	105.4	103.4	112.7	113.2	112.2	58.7	61.9	55.8	67.4	69.8	65.1
Other diseases of endocardium . . . . .424	4.5	4.2	4.8	4.8	4.5	5.2	2.6	2.6	2.6	3.0	2.9	3.0
All other forms of heart disease . . . . .415-423,425-429	85.3	84.9	85.7	85.6	83.9	87.3	83.6	90.9	77.0	99.0	107.1	91.7
Hypertension with or without renal disease. . . . .401,403	3.3	3.0	3.7	3.0	2.7	3.4	5.0	4.7	5.4	6.1	5.6	6.5

Cerebrovascular diseases . . . . .	.430-438	61.6	49.8	72.7	63.2	49.9	75.8	52.7	49.2	55.8	60.2	55.7	64.3
Intracerebral and other intracranial hemorrhage . . . . .	.431-432	8.5	7.9	9.0	8.2	7.4	9.0	10.0	10.9	9.1	10.9	11.9	9.9
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	.434.0-434.9	9.2	7.4	10.9	9.7	7.6	11.7	6.5	6.2	6.7	7.5	7.1	7.9
Cerebral embolism . . . . .	.434.1	0.3	0.3	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2
All other and late effects of cerebrovascular diseases . . . . .	.430,433,435-438	43.6	34.3	52.4	44.9	34.7	54.7	36.0	31.9	39.7	41.6	36.5	46.2
Atherosclerosis . . . . .	.440	9.2	7.1	11.2	10.1	7.6	12.4	4.7	4.1	5.1	5.5	4.8	6.0
Other diseases of arteries, arterioles, and capillaries . . . . .	.441-448	9.4	11.7	7.2	10.1	12.7	7.6	5.5	6.2	5.0	6.2	6.7	5.8
Acute bronchitis and bronchiolitis . . . . .	.466	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Pneumonia and influenza . . . . .	.480-487	28.4	28.3	28.6	30.0	29.1	30.9	19.7	23.8	16.0	22.1	26.9	17.7
Pneumonia . . . . .	.480-486	28.2	28.1	28.3	29.7	28.9	30.6	19.6	23.8	15.9	22.0	26.8	17.6
Influenza . . . . .	.487	0.3	0.2	0.3	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1
Chronic obstructive pulmonary diseases and allied conditions . . . . .	.490-496	32.2	39.7	25.1	35.3	43.0	27.9	15.2	20.9	10.0	17.0	23.5	11.1
Bronchitis, chronic and unspecified . . . . .	.490-491	1.5	1.6	1.4	1.6	1.8	1.5	0.5	0.7	0.4	0.6	0.7	0.4
Emphysema . . . . .	.492	6.0	7.7	4.2	6.6	8.5	4.8	2.2	3.4	1.0	2.4	3.9	1.1
Asthma . . . . .	.493	1.8	1.5	2.1	1.6	1.2	2.0	2.7	2.7	2.8	3.1	3.0	3.1
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	.494-496	23.0	28.9	17.4	25.4	31.5	19.6	9.7	14.1	5.7	10.9	15.9	6.4
Ulcer of stomach and duodenum . . . . .	.531-533	2.6	2.7	2.5	2.8	2.8	2.8	1.6	2.0	1.3	1.8	2.2	1.5
Appendicitis . . . . .	.540-543	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	.550-553,560	2.3	1.8	2.8	2.4	1.7	3.0	1.8	1.9	1.7	2.1	2.3	2.0
Chronic liver disease and cirrhosis . . . . .	.571	10.8	14.4	7.3	10.6	14.1	7.2	11.8	16.0	7.9	13.2	18.3	8.6
Cholelithiasis and other disorders of gallbladder . . . . .	.574-575	1.2	1.1	1.4	1.3	1.2	1.5	0.8	0.6	1.0	0.9	0.6	1.1
Nephritis, nephrotic syndrome, and nephrosis . . . . .	.580-589	9.1	9.2	9.0	8.6	8.7	8.5	11.4	11.5	11.3	13.4	13.5	13.2
Acute glomerulonephritis and nephrotic syndrome . . . . .	.580-581	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	.582-583,587	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.9	1.0	0.9
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	.584-586,588-589	8.3	8.4	8.2	7.9	8.1	7.8	10.4	10.5	10.4	12.3	12.3	12.2
Infections of kidney . . . . .	.590	0.7	0.5	1.0	0.7	0.5	1.0	0.6	0.4	0.7	0.7	0.5	0.8
Hyperplasia of prostate . . . . .	.600	0.2	0.4	...	0.2	0.4	...	0.1	0.3	...	0.2	0.4	...
Complications of pregnancy, childbirth, and the puerperium . . . . .	.630-676	0.1	...	0.2	0.1	...	0.1	0.3	...	0.5	0.3	...	0.6
Pregnancy with abortive outcome . . . . .	.630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.1	0.1	...	0.1
Other complications of pregnancy, childbirth, and the puerperium . . . . .	.640-676	0.1	...	0.2	0.1	...	0.1	0.2	...	0.4	0.2	...	0.5
Congenital anomalies . . . . .	.740-759	5.1	5.6	4.6	4.8	5.3	4.3	6.4	6.9	6.0	7.0	7.7	6.3
Certain conditions originating in the perinatal period . . . . .	.760-779	7.5	8.8	6.2	5.5	6.5	4.6	18.1	21.6	14.9	21.4	25.6	17.7
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	.767-769	1.8	2.2	1.4	1.4	1.8	1.1	3.7	4.5	2.9	4.4	5.3	3.5
Other conditions originating in the perinatal period . . . . .	.760-766,770-779	5.7	6.6	4.9	4.1	4.7	3.5	14.4	17.1	12.0	17.1	20.2	14.2
Symptoms, signs, and ill-defined conditions . . . . .	.780-799	12.8	14.7	11.1	11.8	13.2	10.3	18.8	23.0	15.1	22.1	27.1	17.6
All other diseases . . . . .	.Residual	66.0	63.8	68.1	67.0	63.5	70.4	60.6	65.7	55.9	70.3	76.5	64.6
Accidents and adverse effects . . . . .	.E800-E949	39.0	54.7	24.2	38.8	53.6	24.6	40.5	60.6	22.0	43.0	64.9	23.1
Motor vehicle accidents . . . . .	.E810-E825	19.8	28.6	11.5	20.2	28.8	11.9	17.9	27.2	9.3	17.8	27.7	8.8
All other accidents and adverse effects . . . . .	.E800-E807,E826-E949	19.2	26.1	12.7	18.6	24.8	12.6	22.6	33.4	12.8	25.2	37.2	14.4
Suicide . . . . .	.E950-E959	12.7	20.5	5.2	13.7	22.1	5.7	6.9	11.6	2.5	6.6	11.6	2.1
Homicide and legal intervention . . . . .	.E960-E978	8.7	13.4	4.2	5.4	7.9	3.0	26.5	43.9	10.7	31.9	53.3	12.6
All other external causes . . . . .	.E980-E999	1.2	1.9	0.7	1.1	1.6	0.6	2.2	3.5	1.0	2.5	4.0	1.2

**Table 12. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1987**

[Rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes . . . . .	535.5	698.6	403.3	511.1	668.2	384.1	688.0	898.1	520.1	778.6	1023.2	586.2
Shigellosis and amebiasis . . . . .004,006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections. . . . .007-009	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
Tuberculosis . . . . .010-018	0.5	0.8	0.3	0.3	0.5	0.2	1.7	2.7	1.0	1.9	3.1	1.0
Tuberculosis of respiratory system . . . . .010-012	0.4	0.6	0.2	0.3	0.4	0.2	1.3	2.1	0.6	1.4	2.4	0.7
Other tuberculosis . . . . .013-018	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.6	0.4	0.5	0.7	0.4
Whooping cough . . . . .033	0.0	-	0.0	-	-	-	0.0	-	0.0	0.0	-	0.0
Streptococcal sore throat, scarlatina, and erysipelas . . . . .034-035	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
Meningococcal infection . . . . .036	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.2
Septicemia . . . . .038	4.5	5.3	3.9	3.9	4.5	3.4	9.1	10.6	7.9	10.6	12.5	9.1
Acute poliomyelitis . . . . .045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . .055	0.0	0.0	-	0.0	0.0	-	-	-	-	-	-	-
Viral hepatitis . . . . .070	0.4	0.5	0.2	0.3	0.5	0.2	0.7	0.9	0.5	0.5	0.7	0.4
Syphilis . . . . .090-097	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.2	0.1
All other infectious and parasitic diseases. . . . .001-003,005,020-032,037,039-041,*042-*044,046-054,056-066,071-088,098-139	7.4	12.3	2.6	6.1	10.4	1.8	14.9	24.1	6.9	18.3	30.1	8.3
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .140-208	132.9	163.2	111.0	130.1	158.4	109.7	153.0	200.2	118.4	172.2	227.9	132.0
Malignant neoplasms of lip, oral cavity, and pharynx . . . . .140-149	2.4	3.7	1.3	2.2	3.3	1.3	3.8	6.4	1.6	4.3	7.3	1.9
Malignant neoplasms of digestive organs and peritoneum . . . . .150-159	30.7	39.1	24.0	29.3	37.3	23.0	40.8	53.2	31.3	44.3	57.8	34.1
Malignant neoplasms of respiratory and intrathoracic organs . . . . .160-165	39.7	60.2	23.6	39.1	58.6	23.8	43.7	72.5	21.7	50.0	84.2	24.3
Malignant neoplasm of breast . . . . .174-175	12.5	0.2	22.9	12.4	0.2	22.8	13.0	0.3	23.0	15.0	0.3	26.5
Malignant neoplasms of genital organs . . . . .179-187	12.9	15.4	12.2	12.2	14.2	11.9	18.8	25.8	14.6	21.6	30.6	16.3
Malignant neoplasms of urinary organs . . . . .188-189	5.0	7.6	3.0	5.1	7.8	3.0	4.3	6.1	3.0	4.9	6.8	3.4
Malignant neoplasms of all other and unspecified sites. . . . .170-173,190-199	17.6	21.8	14.2	17.6	21.8	14.2	17.3	21.8	13.8	19.6	25.2	15.3
Leukemia. . . . .204-208	4.9	6.1	3.9	4.9	6.3	3.9	4.4	5.3	3.7	4.7	5.7	3.9
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . .200-203	7.3	8.9	5.9	7.3	9.0	5.9	7.0	8.8	5.6	7.9	10.1	6.2
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	1.7	2.0	1.6	1.7	1.9	1.5	1.9	2.2	1.6	2.1	2.5	1.8
Diabetes mellitus . . . . .250	9.8	10.3	9.3	8.7	9.5	8.1	17.9	16.4	18.9	20.2	18.3	21.3
Nutritional deficiencies . . . . .260-269	0.5	0.5	0.5	0.4	0.5	0.4	0.8	1.1	0.6	0.9	1.2	0.7
Anemias . . . . .280-285	0.9	1.0	0.8	0.7	0.8	0.6	1.9	2.2	1.6	2.3	2.6	2.0
Meningitis . . . . .320-322	0.4	0.5	0.3	0.3	0.4	0.3	0.9	1.0	0.7	1.0	1.2	0.8
Major cardiovascular diseases . . . . .390-448	210.6	276.6	158.0	203.6	270.4	150.2	258.6	320.0	210.7	292.8	361.5	240.1
Diseases of heart . . . . .390-398,402,404-429	169.6	229.6	121.7	165.0	225.9	116.3	199.9	253.6	158.0	226.9	287.1	180.8
Rheumatic fever and rheumatic heart disease. . . . .390-398	1.7	1.3	2.0	1.7	1.3	2.1	1.4	1.0	1.7	1.4	1.0	1.7
Hypertensive heart disease . . . . .402	5.0	5.7	4.3	3.8	4.4	3.2	14.2	16.2	12.4	16.8	19.4	14.6
Hypertensive heart and renal disease . . . . .404	0.5	0.6	0.5	0.4	0.4	0.4	1.6	1.8	1.5	1.9	2.2	1.7
Ischemic heart disease . . . . .410-414	113.9	159.3	77.9	114.5	161.7	76.9	106.2	136.6	82.7	118.4	150.8	93.6
Acute myocardial infarction. . . . .410	60.9	86.4	40.5	61.5	88.2	40.0	54.9	70.4	42.9	61.0	77.3	48.5
Other acute and subacute forms of ischemic heart disease. . . . .411	0.9	1.3	0.5	0.9	1.3	0.5	1.3	2.0	0.8	1.5	2.2	1.0
Angina pectoris . . . . .413	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.3
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .412,414	51.9	71.3	36.7	52.0	72.0	36.2	49.7	64.0	38.7	55.5	71.0	43.7

Other diseases of endocardium . . . . .	.424	2.3	2.9	1.9	2.3	2.9	1.9	2.3	2.7	2.0	2.6	3.1	2.3
All other forms of heart disease . . . . .	.415-423,425-429	46.1	59.9	35.0	42.3	55.3	31.9	74.1	95.2	57.7	85.9	110.6	66.9
Hypertension with or without renal disease . . . . .	.401,403	1.8	2.1	1.6	1.4	1.7	1.2	4.5	5.0	4.1	5.4	6.0	4.9
Cerebrovascular diseases . . . . .	.430-438	30.3	32.7	28.3	28.1	30.3	26.3	45.8	51.1	41.7	51.2	57.1	46.7
Intracerebral and other intracranial													
hemorrhage . . . . .	.431-432	5.4	6.1	4.9	4.7	5.2	4.3	10.2	12.5	8.4	11.1	13.7	9.0
Cerebral thrombosis and unspecified occlusion of													
cerebral arteries . . . . .	.434.0,434.9	4.2	4.7	3.9	4.1	4.5	3.7	5.5	6.3	4.8	6.2	7.1	5.5
Cerebral embolism . . . . .	.434.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
All other and late effects of cerebrovascular													
diseases . . . . .	.430,433,435-438	20.5	21.8	19.4	19.2	20.5	18.1	30.0	32.1	28.4	33.8	36.1	32.0
Atherosclerosis . . . . .	.440	3.6	4.1	3.2	3.6	4.2	3.2	3.4	3.8	3.0	3.8	4.4	3.3
Other diseases of arteries, arterioles, and													
capillaries . . . . .	.441-448	5.3	8.1	3.3	5.3	8.2	3.2	5.0	6.5	3.9	5.5	6.9	4.4
Acute bronchitis and bronchiolitis . . . . .	.466	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Pneumonia and influenza . . . . .	.480-487	13.1	17.7	10.0	12.5	16.8	9.7	16.4	23.5	11.1	18.2	26.4	12.2
Pneumonia . . . . .	.480-486	13.0	17.6	9.9	12.4	16.7	9.6	16.3	23.4	11.0	18.1	26.4	12.1
Influenza . . . . .	.487	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Chronic obstructive pulmonary diseases and allied													
conditions . . . . .	.490-496	18.7	26.9	13.2	19.2	27.4	13.7	14.1	21.6	8.7	15.5	24.0	9.5
Bronchitis, chronic and unspecified, . . . . .	.490-491	0.8	1.0	0.6	0.8	1.1	0.7	0.5	0.6	0.3	0.5	0.7	0.4
Emphysema . . . . .	.492	3.6	5.4	2.3	3.8	5.5	2.5	2.0	3.6	0.9	2.2	4.0	0.9
Asthma . . . . .	.493	1.3	1.2	1.4	1.1	1.0	1.2	2.9	2.9	2.8	3.2	3.3	3.2
Other chronic obstructive pulmonary diseases													
and allied conditions . . . . .	.494-496	13.0	19.3	8.8	13.5	19.8	9.3	8.7	14.4	4.7	9.5	16.0	5.1
Ulcer of stomach and duodenum . . . . .	.531-533	1.4	1.9	1.0	1.4	1.8	1.0	1.5	2.2	1.0	1.6	2.4	1.1
Appendicitis . . . . .	.540-543	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.3	0.3	0.2
Hernia of abdominal cavity and intestinal													
obstruction without mention of hernia . . . . .	.550-553,560	1.1	1.2	1.1	1.1	1.1	1.0	1.5	1.8	1.2	1.7	2.1	1.4
Chronic liver disease and cirrhosis . . . . .	.571	9.1	13.0	5.6	8.4	12.1	5.1	13.2	19.1	8.3	14.9	22.0	9.1
Cholelithiasis and other disorders of gallbladder . . . . .	.574-575	0.6	0.7	0.6	0.6	0.7	0.5	0.7	0.7	0.7	0.7	0.6	0.7
Nephritis, nephrotic syndrome, and nephrosis . . . . .	.580-589	4.8	6.0	3.9	4.1	5.3	3.3	9.9	11.6	8.6	11.3	13.4	9.8
Acute glomerulonephritis and nephrotic													
syndrome . . . . .	.580-581	0.1	0.1	0.0	0.0	0.1	0.0	0.1	0.2	0.1	0.1	0.2	0.1
Chronic glomerulonephritis, nephritis and													
nephropathy, not specified as acute or chronic,													
and renal sclerosis, unspecified . . . . .	.582-583,587	0.3	0.4	0.3	0.3	0.4	0.2	0.7	0.9	0.6	0.8	1.0	0.7
Renal failure, disorders resulting from impaired													
renal function, and small kidney of unknown													
cause . . . . .	.584-586,588-589	4.4	5.6	3.6	3.8	4.9	3.0	9.1	10.6	7.9	10.4	12.2	9.1
Infections of kidney . . . . .	.590	0.3	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.5	0.5	0.5	0.6
Hyperplasia of prostate . . . . .	.600	0.1	0.2	...	0.1	0.2	...	0.1	0.3	...	0.1	0.3	...
Complications of pregnancy, childbirth, and the													
puerperium . . . . .	.630-676	0.1	...	0.2	0.1	...	0.1	0.2	...	0.5	0.3	...	0.6
Pregnancy with abortive outcome . . . . .	.630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.1	0.1	...	0.1
Other complications of pregnancy, childbirth, and the													
puerperium . . . . .	.640-676	0.1	...	0.2	0.1	...	0.1	0.2	...	0.4	0.2	...	0.5
Congenital anomalies . . . . .	.740-759	4.9	5.3	4.6	4.8	5.2	4.4	5.5	5.7	5.3	5.9	6.3	5.6
Certain conditions originating in the perinatal													
period . . . . .	.760-779	7.4	8.3	6.5	5.7	6.4	5.0	14.6	16.4	12.7	17.1	19.2	15.0
Birth trauma, intrauterine hypoxia, birth asphyxia, and													
respiratory distress syndrome . . . . .	.767-769	1.8	2.1	1.4	1.5	1.8	1.2	3.0	3.4	2.5	3.5	4.0	2.9
Other conditions originating in the perinatal													
period . . . . .	.760-766,770-779	5.6	6.2	5.1	4.2	4.6	3.8	11.6	13.0	10.2	13.6	15.2	12.1
Symptoms, signs, and ill-defined conditions . . . . .	.780-799	9.5	12.2	7.0	8.2	10.6	6.0	17.0	22.1	12.6	19.8	26.2	14.5
All other diseases . . . . .	.Residual	38.2	46.2	31.8	35.5	42.8	29.6	55.6	69.0	45.0	63.8	80.1	51.0
Accidents and adverse effects . . . . .	.E800-E949	34.6	51.2	18.8	33.9	49.7	18.6	39.7	61.9	20.2	42.2	66.8	21.0
Motor vehicle accidents . . . . .	.E810-E825	19.5	28.1	11.0	19.8	28.4	11.4	17.9	27.8	9.2	17.9	28.5	8.7
All other accidents and adverse													
effects . . . . .	.E800-E807,E826-E949	15.2	23.1	7.8	14.0	21.3	7.2	21.7	34.2	11.0	24.2	38.4	12.3
Suicide . . . . .	.E950-E959	11.7	19.1	4.9	12.5	20.1	5.3	6.9	11.9	2.5	6.7	12.0	2.1
Homicide and legal intervention . . . . .	.E960-E978	8.6	13.2	4.1	5.3	7.7	2.9	26.4	44.0	10.5	31.8	53.8	12.3
All other external causes . . . . .	.E980-E999	1.2	1.8	0.6	1.0	1.4	0.6	2.2	3.6	1.0	2.5	4.2	1.2

**Table 13. Infant, neonatal, and postneonatal mortality rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1975-87**

[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]

Year	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
Infant mortality rate												
1987	10.1	11.2	8.9	8.6	9.6	7.6	15.4	16.9	13.9	17.9	19.6	16.0
1986	10.4	11.5	9.1	8.9	10.0	7.8	15.7	17.3	14.0	18.0	20.0	16.0
1985	10.6	11.9	9.3	9.3	10.6	8.0	15.8	17.2	14.4	18.2	19.9	16.5
1984	10.8	11.9	9.6	9.4	10.5	8.3	16.1	17.3	14.8	18.4	19.8	16.9
1983	11.2	12.3	10.0	9.7	10.8	8.6	16.8	18.3	15.2	19.2	21.1	17.2
1982	11.5	12.8	10.2	10.1	11.2	8.9	17.3	18.9	15.5	19.6	21.5	17.7
1981	11.9	13.1	10.7	10.5	11.7	9.2	17.8	19.2	16.3	20.0	21.7	18.3
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	15.2	16.8	13.6	13.3	14.8	11.7	23.5	25.5	21.4	25.5	27.8	23.2
1975	16.1	17.9	14.2	14.2	15.9	12.3	24.2	26.2	22.2	26.2	28.3	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 mortality rate												
1987	6.5	7.1	5.8	5.5	6.1	4.9	10.0	11.0	9.0	11.7	12.9	10.5
1986	6.7	7.4	6.0	5.8	6.4	5.1	10.1	11.1	9.1	11.7	13.0	10.5
1985	7.0	7.8	6.1	6.1	6.9	5.3	10.3	11.3	9.4	12.1	13.2	10.9
1984	7.0	7.7	6.3	6.2	6.8	5.5	10.2	11.0	9.5	11.8	12.7	10.9
1983	7.3	8.0	6.5	6.4	7.1	5.7	10.8	11.7	9.7	12.4	13.6	11.2
1982	7.7	8.5	6.9	6.8	7.5	6.0	11.3	12.4	10.3	13.1	14.3	11.8
1981	8.0	8.8	7.2	7.1	7.8	6.3	11.8	12.8	10.9	13.4	14.6	12.3
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
1978	9.5	10.5	8.4	8.4	9.3	7.4	14.0	15.5	12.4	15.5	17.2	13.7
1977	9.9	11.0	8.7	8.7	9.8	7.6	14.7	16.0	13.3	16.1	17.6	14.5
1976	10.9	12.0	9.7	9.7	10.7	8.5	16.3	17.7	14.9	17.9	19.5	16.3
1975	11.6	12.9	10.2	10.4	11.7	9.0	16.8	18.2	15.3	18.3	19.8	16.8
1970	15.1	17.0	13.1	13.8	15.5	11.9	21.4	23.9	18.9	22.8	25.4	20.1
1960	18.7	21.2	16.1	17.2	19.7	14.7	26.9	30.0	23.6	27.8	31.1	24.5
1950	20.5	23.3	17.5	19.4	22.2	16.4	27.5	30.8	24.2	27.8	31.1	24.4
1940	28.8	32.6	24.7	27.2	30.9	23.3	39.7	44.9	34.5	39.9	44.8	34.9
Postneonatal mortality rate												
1987	3.6	4.1	3.2	3.1	3.6	2.7	5.4	5.9	4.9	6.1	6.8	5.5
1986	3.6	4.1	3.1	3.1	3.6	2.7	5.6	6.2	4.9	6.3	7.0	5.6
1985	3.7	4.2	3.2	3.2	3.7	2.7	5.5	6.0	5.0	6.1	6.7	5.6
1984	3.8	4.2	3.3	3.3	3.7	2.8	5.8	6.3	5.3	6.5	7.1	5.9
1983	3.9	4.3	3.4	3.3	3.7	2.9	6.0	6.6	5.4	6.8	7.4	6.1
1982	3.8	4.3	3.3	3.3	3.7	2.8	5.9	6.5	5.3	6.6	7.3	5.9
1981	3.9	4.3	3.5	3.4	3.8	3.0	6.0	6.5	5.4	6.6	7.1	6.0
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

**Table 14. Deaths under 1 year and infant mortality rates for the 10 leading causes of infant death: United States, 1987**

[Rates per 100,000 live births]

<i>Rank order</i> <sup>1</sup>	<i>Cause of death (Ninth Revision International Classification of Diseases, 1975)</i>	<i>Number</i>	<i>Rate</i>
...	All causes . . . . .	38,408	1,008.2
1	Congenital anomalies . . . . .740-759	7,884	207.0
2	Sudden infant death syndrome . . . . .798.0	5,230	137.3
3	Disorders relating to short gestation and unspecified low birthweight . . . . .765	3,354	88.0
4	Respiratory distress syndrome . . . . .769	3,283	86.2
5	Newborn affected by maternal complications of pregnancy . . . . .761	1,399	36.7
6	Accidents and adverse effects . . . . .E800-E949	950	24.9
7	Infections specific to the perinatal period. . . . .771	862	22.6
8	Newborn affected by complications of placenta, cord, and membranes. . . . .762	839	22.0
9	Intrauterine hypoxia and birth asphyxia. . . . .768	791	20.8
10	Pneumonia and Influenza . . . . .480-487	674	17.7
...	All other causes . . . . .Residual	13,142	345.0

<sup>1</sup>Rank based on number of deaths; see Technical notes.

Table 15. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1987

[Rates per 100,000 live births in specified group. For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races		All other		All races		All other	
	White	Total	White	Total	White	Total	White	Total
	Number				Rate			
All causes . . . . .	38,408	25,810	12,598	11,461	1,008.2	862.5	1,542.2	1,786.4
Certain intestinal infections . . . . .008-009	93	51	42	40	2.4	1.7	5.1	6.2
Whooping cough . . . . .033	-	-	-	-	-	-	-	-
Meningococcal infection . . . . .036	66	54	12	11	1.7	1.8	1.5	1.7
Septicemia . . . . .038	254	148	106	99	6.7	4.9	13.0	15.4
Viral diseases . . . . .045-079	113	81	32	27	3.0	2.7	3.9	4.2
Congenital syphilis . . . . .090	14	5	9	9	0.4	0.2	1.1	1.4
Remainder of infectious and parasitic diseases . . . . .001,007, 010-032,034-035,037,039-041,*042-*044,080-088,091-139	207	106	101	98	5.4	3.5	12.4	15.3
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .140-208	101	87	14	11	2.7	2.9	1.7	1.7
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	59	54	5	3	1.5	1.8	0.6	0.5
Diseases of thymus gland . . . . .254	7	5	2	2	0.2	0.2	0.2	0.3
Cystic fibrosis . . . . .277.0	17	15	2	2	0.4	0.5	0.2	0.3
Diseases of blood and blood-forming organs . . . . .280-289	63	40	23	18	1.7	1.3	2.8	2.8
Meningitis . . . . .320-322	214	132	82	69	5.6	4.4	10.0	10.8
Other diseases of nervous system and sense organs . . . . .323-389	458	338	120	99	12.0	11.3	14.7	15.4
Acute upper respiratory infections . . . . .460-465	28	17	11	9	0.7	0.6	1.3	1.4
Bronchitis and bronchiolitis . . . . .466,490-491	99	64	35	29	2.6	2.1	4.3	4.5
Pneumonia and influenza . . . . .480-487	674	412	262	227	17.7	13.8	32.1	35.4
Pneumonia . . . . .480-486	666	407	259	226	17.5	13.6	31.7	35.2
Influenza . . . . .487	8	5	3	1	0.2	0.2	0.4	0.2
Remainder of diseases of respiratory system . . . . .470-478,492-519	431	282	149	134	11.3	9.4	18.2	20.9
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .550-553,560	94	50	44	38	2.5	1.7	5.4	5.9
Gastritis, duodenitis, and noninfective enteritis and colitis . . . . .535,555-558	110	60	50	48	2.9	2.0	6.1	7.5
Remainder of diseases of digestive system . . . . .520-534,536-543,562-579	181	115	66	59	4.8	3.8	8.1	9.2
Congenital anomalies . . . . .740-759	7,884	6,172	1,712	1,453	207.0	206.2	209.6	226.5
Anencephalus and similar anomalies . . . . .740	545	460	85	72	14.3	15.4	10.4	11.2
Spina bifida . . . . .741	77	62	15	13	2.0	2.1	1.8	2.0
Congenital hydrocephalus . . . . .742.3	176	125	51	44	4.6	4.2	6.2	6.9
Other congenital anomalies of central nervous system and eye . . . . .742.0-742.2,742.4-742.9,743	317	246	71	61	8.3	8.2	8.7	9.5
Congenital anomalies of heart . . . . .745-746	2,381	1,854	527	458	62.5	62.0	64.5	71.4
Other congenital anomalies of circulatory system . . . . .747	597	433	164	139	15.7	14.5	20.1	21.7
Congenital anomalies of respiratory system . . . . .748	1,111	871	240	206	29.2	29.1	29.4	32.1
Congenital anomalies of digestive system . . . . .749-751	132	91	41	35	3.5	3.0	5.0	5.5
Congenital anomalies of genitourinary system . . . . .752-753	451	378	73	61	11.8	12.6	8.9	9.5
Congenital anomalies of musculoskeletal system . . . . .754-756	532	428	104	90	14.0	14.3	12.7	14.0
Down's syndrome . . . . .758.0	86	64	22	17	2.3	2.1	2.7	2.6
Other chromosomal anomalies . . . . .758.1-758.9	781	619	162	123	20.5	20.7	19.8	19.2
All other and unspecified congenital anomalies . . . . .744,757,759	698	541	157	134	18.3	18.1	19.2	20.9
Certain conditions originating in the perinatal period . . . . .760-779	18,070	11,300	6,770	6,336	474.4	377.6	828.7	987.6
Newborn affected by maternal conditions which may be unrelated to present pregnancy . . . . .760	121	83	38	36	3.2	2.8	4.7	5.6
Newborn affected by maternal complications of pregnancy . . . . .761	1,399	927	472	442	36.7	31.0	57.8	68.9
Newborn affected by complications of placenta, cord, and membranes . . . . .762	839	589	250	232	22.0	19.7	30.6	36.2
Newborn affected by other complications of labor and delivery . . . . .763	86	48	38	32	2.3	1.6	4.7	5.0
Slow fetal growth and fetal malnutrition . . . . .764	23	15	8	8	0.6	0.5	1.0	1.2
Disorders relating to short gestation and unspecified low birthweight . . . . .765	3,354	1,778	1,576	1,496	88.0	59.4	192.9	233.2
Disorders relating to long gestation and high birthweight . . . . .766	-	-	-	-	-	-	-	-
Birth trauma . . . . .767	248	159	89	82	6.5	5.3	10.9	12.8
Intrauterine hypoxia and birth asphyxia . . . . .768	791	503	288	269	20.8	16.8	35.3	41.9
Fetal distress in liveborn infant . . . . .768.2-768.4	166	120	46	41	4.4	4.0	5.6	6.4
Birth asphyxia . . . . .768.5-768.9	625	383	242	228	16.4	12.8	29.6	35.5
Respiratory distress syndrome . . . . .769	3,283	2,290	993	934	86.2	76.5	121.6	145.6
Other respiratory conditions of newborn . . . . .770	3,556	2,307	1,249	1,163	93.3	77.1	152.9	181.3
Infections specific to the perinatal period . . . . .771	862	562	300	268	22.6	18.8	36.7	41.8
Neonatal hemorrhage . . . . .772	334	222	112	98	8.8	7.4	13.7	15.3
Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice . . . . .773-774	27	23	4	3	0.7	0.8	0.5	0.5
Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus . . . . .775.0-775.1	8	5	3	2	0.2	0.2	0.4	0.3
Hemorrhagic disease of newborn . . . . .776.0	3	3	-	-	0.1	0.1	-	-
All other and ill-defined conditions originating in the perinatal period . . . . .775.2-775.9,776.1-779	3,136	1,786	1,350	1,271	82.3	59.7	165.3	198.1
Symptoms, signs, and ill-defined conditions . . . . .780-799	6,137	4,168	1,969	1,762	161.1	139.3	241.0	274.6
Sudden infant death syndrome . . . . .798.0	5,230	3,605	1,625	1,447	137.3	120.5	198.9	225.5
Symptoms, signs, and all other ill-defined conditions . . . . .780-797,798.1-799	907	563	344	315	23.8	18.8	42.1	49.1
Accidents and adverse effects . . . . .E800-E949	950	650	300	272	24.9	21.7	36.7	42.4
Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation . . . . .E911-E912	159	110	49	45	4.2	3.7	6.0	7.0





Table 17. Total deaths and death rates, and infant and neonatal deaths and mortality rates for each division, and State; and by race and sex for the United States, 1987

Race, sex, and area	Total deaths		Infant deaths (under 1 year)		Neonatal deaths (under 28 days)	
	Number	Rate <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
United States . . . . .	2,123,323	872.4	38,408	10.1	24,627	6.5
Male . . . . .	1,107,958	934.7	21,798	11.2	13,872	7.1
Female . . . . .	1,015,365	813.1	16,610	8.9	10,755	5.8
White . . . . .	1,843,067	895.5	25,810	8.6	16,448	5.5
Male . . . . .	953,382	947.8	14,763	9.6	9,308	6.1
Female . . . . .	889,685	845.5	11,047	7.6	7,140	4.9
All other . . . . .	280,256	745.8	12,598	15.4	8,179	10.0
Male . . . . .	154,576	861.5	7,035	16.9	4,564	11.0
Female . . . . .	125,680	640.0	5,563	13.9	3,615	9.0
Black . . . . .	254,814	856.9	11,461	17.9	7,520	11.7
Male . . . . .	139,551	989.5	6,391	19.6	4,190	12.9
Female . . . . .	115,263	737.3	5,070	16.0	3,330	10.5
New England . . . . .	118,096	919.5	1,480	7.9	1,032	5.5
Maine . . . . .	11,282	950.5	139	8.3	84	5.0
New Hampshire . . . . .	8,417	796.3	132	7.8	94	5.5
Vermont . . . . .	4,768	870.1	69	8.5	42	5.2
Massachusetts . . . . .	55,599	949.6	611	7.2	434	5.1
Rhode Island . . . . .	9,703	984.1	118	8.4	85	6.1
Connecticut . . . . .	28,327	882.2	411	8.8	293	6.2
Middle Atlantic . . . . .	371,184	991.6	5,654	10.3	3,897	7.1
New York . . . . .	173,567	973.7	2,906	10.7	1,992	7.3
New Jersey . . . . .	72,181	940.8	1,063	9.4	719	6.3
Pennsylvania . . . . .	125,436	1050.9	1,685	10.4	1,186	7.3
East North Central . . . . .	372,254	888.3	6,473	10.3	4,191	6.7
Ohio . . . . .	99,240	920.3	1,461	9.3	904	5.7
Indiana . . . . .	48,906	884.2	790	10.1	500	6.4
Illinois . . . . .	102,314	883.4	2,102	11.6	1,408	7.8
Michigan . . . . .	79,622	865.5	1,508	10.7	1,017	7.2
Wisconsin . . . . .	42,172	877.3	612	8.6	362	5.1
West North Central . . . . .	161,548	916.1	2,448	9.3	1,456	5.6
Minnesota . . . . .	34,524	813.1	564	8.7	335	5.1
Iowa . . . . .	27,234	961.0	343	9.1	209	5.5
Missouri . . . . .	50,695	993.4	769	10.2	477	6.3
North Dakota . . . . .	5,483	815.9	90	8.7	50	4.9
South Dakota . . . . .	6,672	941.0	114	9.9	57	5.0
Nebraska . . . . .	14,827	930.2	204	8.6	111	4.7
Kansas . . . . .	22,113	893.1	364	9.5	217	5.6
South Atlantic . . . . .	378,797	908.7	7,225	11.5	4,807	7.6
Delaware . . . . .	5,603	870.0	116	11.7	82	8.3
Maryland . . . . .	38,034	838.7	831	11.5	573	7.9
District of Columbia . . . . .	7,430	1194.5	197	19.3	147	14.4
Virginia . . . . .	46,665	790.4	923	10.2	607	6.7
West Virginia . . . . .	19,767	1042.0	219	9.8	151	6.7
North Carolina . . . . .	55,316	862.6	1,112	11.9	755	8.1
South Carolina . . . . .	28,493	831.9	673	12.7	455	8.6
Georgia . . . . .	50,199	806.8	1,306	12.7	866	8.4
Florida . . . . .	127,290	1058.7	1,848	10.6	1,171	6.7
East South Central . . . . .	141,859	927.8	2,587	11.7	1,674	7.6
Kentucky . . . . .	34,598	928.3	499	9.7	309	6.0
Tennessee . . . . .	44,919	925.2	795	11.7	518	7.6
Alabama . . . . .	37,708	923.5	727	12.2	483	8.1
Mississippi . . . . .	24,634	938.4	566	13.7	364	8.8
West South Central . . . . .	210,184	781.1	4,446	9.7	2,770	6.0
Arkansas . . . . .	24,429	1023.0	356	10.3	204	5.9
Louisiana . . . . .	36,443	816.9	872	11.8	571	7.7
Oklahoma . . . . .	29,290	895.2	458	9.6	270	5.6
Texas . . . . .	120,022	714.9	2,760	9.1	1,725	5.7
Mountain . . . . .	92,411	701.8	2,177	9.4	1,275	5.5
Montana . . . . .	6,613	817.4	122	10.0	56	4.6
Idaho . . . . .	7,343	735.8	165	10.4	99	6.2
Wyoming . . . . .	3,045	621.4	69	9.2	46	6.1
Colorado . . . . .	21,093	640.0	527	9.8	321	6.0
New Mexico . . . . .	10,344	689.6	221	8.1	139	5.1
Arizona . . . . .	26,969	796.5	601	9.5	379	6.0
Utah . . . . .	9,120	542.9	312	8.8	149	4.2
Nevada . . . . .	7,884	782.9	160	9.6	86	5.2
Pacific . . . . .	276,990	758.2	5,918	9.2	3,525	5.5
Washington . . . . .	35,022	771.7	682	9.7	366	5.2
Oregon . . . . .	24,265	890.8	403	10.4	214	5.5
California . . . . .	209,424	757.1	4,546	9.0	2,780	5.5
Alaska . . . . .	2,055	391.4	121	10.4	64	5.5
Hawaii . . . . .	6,224	574.7	166	8.9	101	5.4

<sup>1</sup>Per 100,000 population in each race-sex group and area.<sup>2</sup>Per 1,000 live births in each race-sex group and area.

Table 18. Deaths and death rates for major causes of death for the United States, each division, and State; and by race and sex for the United States, 1987

[Rates per 100,000 population in each race-sex group and area. Numbers after causes of death are category numbers of the Ninth Revision International Classification of Diseases, 1975]

Race, sex, and area	Diseases of heart (390-398,402, 404-429)		Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)		Cerebrovascular diseases (430-438)		Accidents and adverse effects (E800-E949)		Motor vehicle accidents (E810-E825)		Suicide (E950-E959)	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
	United States . . . . .	760,353	312.4	476,927	195.9	149,835	61.6	95,020	39.0	48,290	19.8	30,796
Male . . . . .	385,217	325.0	254,653	214.8	59,061	49.8	64,816	54.7	33,904	28.6	24,272	20.5
Female . . . . .	375,136	300.4	222,274	178.0	90,774	72.7	30,204	24.2	14,386	11.5	6,524	5.2
White . . . . .	675,732	328.3	418,473	203.3	130,047	63.2	79,810	38.8	41,581	20.2	28,217	13.7
Male . . . . .	342,063	340.1	221,757	220.5	50,237	49.9	53,936	53.6	29,017	28.8	22,188	22.1
Female . . . . .	333,669	317.1	196,716	186.9	79,810	75.8	25,874	24.6	12,564	11.9	6,029	5.7
All other . . . . .	84,621	225.2	58,454	155.5	19,788	52.7	15,210	40.5	6,709	17.9	2,579	6.9
Male . . . . .	43,154	240.5	32,896	183.3	8,824	49.2	10,880	60.6	4,887	27.2	2,084	11.6
Female . . . . .	41,467	211.1	25,558	130.1	10,964	55.8	4,330	22.0	1,822	9.3	495	2.5
Black . . . . .	77,747	261.5	53,027	178.3	17,907	60.2	12,777	43.0	5,287	17.8	1,963	6.6
Male . . . . .	38,934	276.1	29,928	212.2	7,852	55.7	9,159	64.9	3,913	27.7	1,635	11.6
Female . . . . .	38,813	248.3	23,099	147.8	10,055	64.3	3,618	23.1	1,374	8.8	328	2.1
New England . . . . .	42,771	333.0	28,213	219.7	7,823	60.9	3,979	31.0	1,855	14.4	1,413	11.0
Maine . . . . .	4,151	349.7	2,693	226.9	770	64.9	402	33.9	217	18.3	168	14.2
New Hampshire . . . . .	2,960	280.0	1,986	187.9	612	57.9	336	31.8	174	16.5	148	14.0
Vermont . . . . .	1,670	304.7	1,070	195.3	314	57.3	219	40.0	112	20.4	92	16.8
Massachusetts . . . . .	20,122	343.7	13,277	226.8	3,775	64.5	1,729	29.5	748	12.8	579	9.9
Rhode Island . . . . .	3,626	367.7	2,282	231.4	603	61.2	314	31.8	140	14.2	127	12.9
Connecticut . . . . .	10,242	319.0	6,905	215.0	1,749	54.5	979	30.5	464	14.5	299	9.3
Middle Atlantic . . . . .	141,885	379.0	84,419	225.5	22,290	59.5	12,721	34.0	5,658	15.1	3,358	9.0
New York . . . . .	67,392	378.1	38,402	215.4	9,782	54.9	5,807	32.6	2,495	14.0	1,247	7.0
New Jersey . . . . .	26,950	351.3	17,161	223.7	4,458	58.1	2,422	31.6	1,094	14.3	618	8.1
Pennsylvania . . . . .	47,543	398.3	28,856	241.8	8,050	67.4	4,492	37.6	2,069	17.3	1,493	12.5
East North Central . . . . .	140,584	335.5	84,247	201.0	26,305	62.8	14,426	34.4	7,354	17.5	4,895	11.7
Ohio . . . . .	37,534	348.1	22,925	212.6	6,712	62.2	3,647	33.8	1,831	17.0	1,201	11.1
Indiana . . . . .	17,857	322.9	11,057	199.9	3,816	69.0	2,143	38.7	1,127	20.4	719	13.0
Illinois . . . . .	39,008	336.8	23,180	200.1	6,908	59.6	3,835	33.1	1,835	15.8	1,210	10.4
Michigan . . . . .	30,472	331.2	17,641	191.8	5,473	59.5	3,148	34.2	1,730	18.8	1,083	11.8
Wisconsin . . . . .	15,713	326.9	9,444	196.5	3,396	70.6	1,653	34.4	831	17.3	682	14.2
West North Central . . . . .	58,573	332.2	35,066	198.9	12,578	71.3	6,891	39.1	3,293	18.7	2,407	13.6
Minnesota . . . . .	11,838	278.8	7,708	181.5	2,886	68.0	1,469	34.6	601	14.2	546	12.9
Iowa . . . . .	10,396	366.8	5,903	208.3	2,182	77.0	1,053	37.2	508	17.9	400	14.1
Missouri . . . . .	18,405	360.7	11,128	218.1	3,797	74.4	2,152	42.2	1,085	21.3	749	14.7
North Dakota . . . . .	1,949	290.0	1,258	187.2	472	70.2	236	35.1	113	16.8	85	12.6
South Dakota . . . . .	2,520	355.4	1,366	192.7	482	68.0	315	44.4	156	22.0	102	14.4
Nebraska . . . . .	5,521	346.4	3,075	192.9	1,117	70.1	640	40.2	296	18.6	189	11.9
Kansas . . . . .	7,944	320.8	4,628	186.9	1,642	66.3	1,026	41.4	534	21.6	336	13.6
South Atlantic . . . . .	133,029	319.1	85,937	206.2	27,847	66.8	18,423	44.2	9,714	23.3	5,811	13.9
Delaware . . . . .	2,052	318.6	1,361	211.3	293	45.5	266	41.3	152	23.6	98	15.2
Maryland . . . . .	13,115	289.2	9,106	200.8	2,325	51.3	1,602	35.3	815	18.0	527	11.6
District of Columbia . . . . .	2,155	346.5	1,633	262.5	390	62.7	210	33.8	82	13.2	44	7.1
Virginia . . . . .	16,000	271.0	10,796	182.9	3,443	58.3	2,295	38.9	1,075	18.2	831	14.1
West Virginia . . . . .	7,717	406.8	4,270	225.1	1,325	69.8	939	49.5	503	26.5	243	12.8
North Carolina . . . . .	19,494	304.0	12,133	189.2	4,519	70.5	3,094	48.2	1,577	24.6	784	12.2
South Carolina . . . . .	9,865	288.0	5,897	172.2	2,556	74.6	1,932	56.4	1,087	31.7	437	12.8
Georgia . . . . .	16,645	267.5	10,576	170.0	4,034	64.8	2,955	47.5	1,618	26.0	826	13.3
Florida . . . . .	45,986	382.5	30,165	250.9	8,962	74.5	5,130	42.7	2,805	23.3	2,021	16.8
East South Central . . . . .	50,786	332.2	31,025	202.9	11,256	73.6	7,738	50.6	4,178	27.3	1,854	12.1
Kentucky . . . . .	12,658	339.6	7,635	204.9	2,646	71.0	1,730	46.4	883	23.7	508	13.6
Tennessee . . . . .	15,853	326.5	9,979	205.5	3,776	77.8	2,335	48.1	1,298	26.7	612	12.6
Alabama . . . . .	13,141	321.8	8,351	204.5	2,960	72.5	2,159	52.9	1,185	29.0	449	11.0
Mississippi . . . . .	9,134	348.0	5,060	192.8	1,874	71.4	1,514	57.7	812	30.9	285	10.9
West South Central . . . . .	72,513	269.5	45,131	167.7	15,161	56.3	10,874	40.4	5,524	20.5	3,461	12.9
Arkansas . . . . .	8,751	366.5	5,333	223.3	2,068	86.6	1,275	53.4	658	27.6	342	14.3
Louisiana . . . . .	13,055	292.6	8,122	182.1	2,513	56.3	1,838	41.2	867	19.4	558	12.5
Oklahoma . . . . .	10,644	325.3	6,379	195.0	2,388	73.0	1,372	41.9	669	20.4	441	13.5
Texas . . . . .	40,063	238.6	25,297	150.7	8,192	48.8	6,389	38.1	3,330	19.8	2,120	12.6
Mountain . . . . .	28,864	219.2	19,978	151.7	5,738	43.6	5,811	44.1	3,209	24.4	2,457	18.7
Montana . . . . .	2,125	262.7	1,502	185.7	435	53.8	424	52.4	223	27.6	158	19.5
Idaho . . . . .	2,352	235.7	1,541	154.4	588	58.9	456	45.7	263	26.4	176	17.6
Wyoming . . . . .	949	193.7	680	138.8	203	41.4	203	41.4	107	21.8	78	15.9
Colorado . . . . .	6,366	193.1	4,395	133.3	1,338	40.6	1,226	37.2	615	18.7	562	17.1
New Mexico . . . . .	2,893	192.9	2,125	141.7	579	38.6	815	54.3	525	35.0	301	20.1
Arizona . . . . .	8,649	255.4	6,152	181.7	1,519	44.9	1,720	50.8	925	27.3	685	20.2
Utah . . . . .	2,961	176.3	1,667	99.2	662	39.4	576	34.3	307	18.3	231	13.8
Nevada . . . . .	2,569	255.1	1,916	190.3	414	41.1	391	38.8	244	24.2	266	26.4

Table 18. Deaths and death rates for major causes of death for the United States, each division, and State; and by race and sex for the United States, 1987—Con.

[Rates per 100,000 population in each race-sex group and area. Numbers after causes of death are category numbers of the *Ninth Revision International Classification of Diseases, 1975*]

Race, sex, and area	Diseases of heart (390-398, 402, 404-429)		Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)		Cerebrovascular diseases (430-438)		Accidents and adverse effects (E800-E949)		Motor vehicle accidents (E810-E825)		Suicide (E950-E959)	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
	Pacific . . . . .	91,348	250.0	62,911	172.2	20,837	57.0	14,157	38.8	7,505	20.5	5,140
Washington . . . . .	11,574	255.0	8,146	179.5	2,628	57.9	1,735	38.2	865	19.1	698	15.4
Oregon . . . . .	8,024	294.6	5,541	203.4	1,954	71.7	1,249	45.9	642	23.6	408	15.0
California . . . . .	69,273	250.4	47,353	171.2	15,705	56.8	10,542	38.1	5,774	20.9	3,829	13.8
Alaska . . . . .	481	91.6	442	84.2	88	16.8	320	61.0	90	17.1	94	17.9
Hawaii . . . . .	1,996	184.3	1,429	131.9	462	42.7	311	28.7	134	12.4	111	10.2

**Table 19. Deaths by age according to specified Hispanic origin, race for non-Hispanic origin, and sex: Total of 18 reporting States and the District of Columbia, 1987**

[For listing of reporting States, see Technical notes]

<i>Hispanic origin, race for non-Hispanic origin, and sex</i>	<i>Total</i>	<i>Under 1 year</i>	<i>1-4 years</i>	<i>5-14 years</i>	<i>15-24 years</i>	<i>25-34 years</i>	<i>35-44 years</i>	<i>45-54 years</i>	<i>55-64 years</i>	<i>65-74 years</i>	<i>75-84 years</i>	<i>85 years and over</i>	<i>Not stated</i>
All origins . . . . .	1,041,220	20,386	3,959	4,522	19,698	31,569	39,742	59,069	135,554	233,167	279,798	213,426	330
Male . . . . .	542,894	11,571	2,242	2,854	14,681	22,969	27,048	37,176	83,166	134,722	136,287	69,939	239
Female . . . . .	498,326	8,815	1,717	1,668	5,017	8,600	12,694	21,893	52,388	98,445	143,511	143,487	91
Hispanic . . . . .	49,776	2,952	618	558	3,092	4,278	4,032	4,185	6,966	8,349	8,987	5,706	53
Male . . . . .	30,090	1,681	354	331	2,521	3,367	3,058	2,759	4,218	4,760	4,558	2,432	51
Female . . . . .	19,686	1,271	264	227	571	911	974	1,426	2,748	3,589	4,429	3,274	2
Mexican . . . . .	29,900	1,854	413	377	2,011	2,165	1,892	2,235	4,214	5,192	5,791	3,729	27
Male . . . . .	17,960	1,074	233	232	1,669	1,730	1,400	1,438	2,509	3,010	3,011	1,628	26
Female . . . . .	11,940	780	180	145	342	435	492	797	1,705	2,182	2,780	2,101	1
Puerto Rican . . . . .	7,368	259	72	64	374	957	1,050	894	1,122	1,126	963	486	1
Male . . . . .	4,561	139	34	39	287	734	824	630	699	593	418	163	1
Female . . . . .	2,807	120	38	25	87	223	226	264	423	533	545	323	-
Cuban . . . . .	1,753	24	4	4	21	97	99	142	312	354	431	265	-
Male . . . . .	1,046	16	3	3	15	84	83	109	219	211	205	98	-
Female . . . . .	707	8	1	1	6	13	16	33	93	143	226	167	-
Central and South American . . . . .	3,302	201	37	34	289	474	409	356	393	461	424	223	1
Male . . . . .	1,974	108	24	17	234	375	316	207	206	229	176	81	1
Female . . . . .	1,328	93	13	17	55	99	93	149	187	232	248	142	-
Other and unknown Hispanic . . . . .	7,453	614	92	79	397	585	582	558	925	1,216	1,378	1,003	24
Male . . . . .	4,549	344	60	40	316	444	435	375	585	717	748	462	23
Female . . . . .	2,904	270	32	39	81	141	147	183	340	499	630	541	1
Non-Hispanic <sup>1</sup> . . . . .	944,683	15,807	3,115	3,678	15,394	25,160	33,135	51,715	121,971	214,281	259,947	200,352	128
Male . . . . .	486,218	8,949	1,763	2,347	11,265	18,010	22,116	32,212	74,574	123,543	126,328	65,033	78
Female . . . . .	458,465	6,858	1,352	1,331	4,129	7,150	11,019	19,503	47,397	90,738	133,619	135,319	50
White . . . . .	805,829	9,965	2,102	2,668	11,109	17,151	23,213	38,833	99,945	184,948	231,918	183,906	71
Male . . . . .	409,656	5,718	1,194	1,692	8,094	12,438	15,528	24,389	61,706	107,465	112,520	58,870	42
Female . . . . .	396,173	4,247	908	976	3,015	4,713	7,685	14,444	38,239	77,483	119,398	125,036	29
Black . . . . .	121,812	5,201	866	849	3,689	7,255	8,942	11,495	19,523	25,754	24,281	13,910	47
Male . . . . .	66,410	2,875	482	553	2,735	5,031	5,973	6,990	11,381	13,914	11,460	4,987	29
Female . . . . .	55,402	2,326	384	296	954	2,224	2,969	4,505	8,142	11,840	12,821	8,923	18
Not stated <sup>2</sup> . . . . .	46,761	1,627	226	286	1,212	2,131	2,575	3,169	6,617	10,537	10,864	7,368	149
Male . . . . .	26,586	941	125	176	895	1,592	1,874	2,205	4,374	6,419	5,401	2,474	110
Female . . . . .	20,175	686	101	110	317	539	701	964	2,243	4,118	5,463	4,894	39

<sup>1</sup>Includes races other than white and black.

<sup>2</sup>Includes deaths that occurred in States that did not report Hispanic origin on the death certificate.

Table 20. Deaths for the 10 leading causes of death for Hispanic and white non-Hispanic origin, for specified age groups: Total of 18 reporting States and the District of Columbia, 1987

[For explanation of asterisk preceding cause-of-death codes, see Technical notes. For a listing of reporting States see Technical notes]

Hispanic			White non-Hispanic		
Rank order	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number	Rank order	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number
All ages <sup>1</sup>			All ages <sup>1</sup>		
...	All causes	49,776	...	All causes	805,829
1	Diseases of heart . . . . .390-398,402,404-429	12,622	1	Diseases of heart . . . . .390-398,402,404-429	299,950
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	8,431	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	183,997
3	Accidents and adverse effects . . . . .E800-E949	4,637	3	Cerebrovascular diseases . . . . .430-438	56,674
...	Motor vehicle accidents . . . . .E810-E825	2,698	4	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	32,818
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	1,939	5	Accidents and adverse effects . . . . .E800-E949	31,741
4	Cerebrovascular diseases . . . . .430-438	2,715	...	Motor vehicle accidents . . . . .E810-E825	16,261
5	Homicide and legal intervention . . . . .E960-E978	2,301	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	15,480
6	Chronic liver disease and cirrhosis . . . . .571	1,684	6	Pneumonia and influenza . . . . .480-487	28,451
7	Pneumonia and influenza . . . . .480-487	1,484	7	Diabetes mellitus . . . . .250	13,292
8	Diabetes mellitus . . . . .250	1,483	8	Suicide. . . . .E950-E959	12,009
9	Human immunodeficiency virus infection . . . . .*042-*044	1,467	9	Atherosclerosis. . . . .440	9,385
10	Certain conditions originating in the perinatal period . . . . .760-779	1,320	10	Chronic liver disease and cirrhosis . . . . .571	9,296
...	All other causes . . . . .Residual	11,632	...	All other causes . . . . .Residual	128,216
1-14 years			1-14 years		
...	All causes	1,176	...	All causes	4,770
1	Accidents and adverse effects . . . . .E800-E949	467	1	Accidents and adverse effects . . . . .E800-E949	2,106
...	Motor vehicle accidents . . . . .E810-E825	247	...	Motor vehicle accidents . . . . .E810-E825	1,046
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	220	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	1,060
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	138	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	577
3	Congenital anomalies . . . . .740-759	110	3	Congenital anomalies . . . . .740-759	379
4	Homicide and legal intervention . . . . .E960-E978	58	4	Diseases of heart . . . . .390-398,402,404-429	173
5	Diseases of heart . . . . .390-398,402,404-429	33	5	Homicide and legal intervention . . . . .E960-E978	138
6	Human immunodeficiency virus infection . . . . .*042-*044	28	6	Pneumonia and influenza . . . . .480-487	92
7	Pneumonia and influenza . . . . .480-487	27	7	Suicide. . . . .E950-E959	91
8	Meningococcal infection . . . . .036	13	8	Meningitis . . . . .320-322	63
9	Certain conditions originating in the perinatal period . . . . .760-779	12	9	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	49
9	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	12	10	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . .210-239	48
...	All other causes . . . . .Residual	278	...	All other causes . . . . .Residual	1,054
15-24 years			15-24 years		
...	All causes	3,092	...	All causes	11,109
1	Accidents and adverse effects . . . . .E800-E949	1,272	1	Accidents and adverse effects . . . . .E800-E949	6,208
...	Motor vehicle accidents . . . . .E810-E825	917	...	Motor vehicle accidents . . . . .E810-E825	4,938
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	355	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	1,270
2	Homicide and legal intervention . . . . .E960-E978	789	2	Suicide. . . . .E950-E959	1,658
3	Suicide. . . . .E950-E959	284	3	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	621
4	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	150	4	Homicide and legal intervention . . . . .E960-E978	610
5	Diseases of heart . . . . .390-398,402,404-429	71	5	Diseases of heart . . . . .390-398,402,404-429	279
6	Human immunodeficiency virus infection . . . . .*042-*044	65	6	Congenital anomalies . . . . .740-759	153
7	Congenital anomalies . . . . .740-759	26	7	Human immunodeficiency virus infection . . . . .*042-*044	128
8	Cerebrovascular diseases . . . . .430-438	22	8	Cerebrovascular diseases . . . . .430-438	77
9	Pneumonia and influenza . . . . .480-487	21	8	Pneumonia and influenza . . . . .480-487	77
10	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	16	10	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	43
...	All other causes . . . . .Residual	376	...	All other causes . . . . .Residual	1,255
25-44 years			25-44 years		
...	All causes	8,310	...	All causes	40,364
1	Accidents and adverse effects . . . . .E800-E949	1,737	1	Accidents and adverse effects . . . . .E800-E949	8,825
...	Motor vehicle accidents . . . . .E810-E825	1,001	...	Motor vehicle accidents . . . . .E810-E825	5,375
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	736	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	3,450
2	Homicide and legal intervention . . . . .E960-E978	1,197	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	7,179
3	Human immunodeficiency virus infection . . . . .*042-*044	1,092	3	Diseases of heart . . . . .390-398,402,404-429	4,752
4	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	782	4	Suicide. . . . .E950-E959	4,471
5	Diseases of heart . . . . .390-398,402,404-429	565	5	Human immunodeficiency virus infection . . . . .*042-*044	3,457
6	Chronic liver disease and cirrhosis . . . . .571	463	6	Homicide and legal intervention . . . . .E960-E978	1,703
7	Suicide. . . . .E950-E959	430	7	Chronic liver disease and cirrhosis . . . . .571	1,325
8	Cerebrovascular diseases . . . . .430-438	208	8	Cerebrovascular diseases . . . . .430-438	845
9	Pneumonia and influenza . . . . .480-487	124	9	Diabetes mellitus . . . . .250	591
10	Septicemia . . . . .038	64	10	Pneumonia and influenza . . . . .480-487	527
...	All other causes . . . . .Residual	1,648	...	All other causes . . . . .Residual	6,689

See footnote at end of table.

Table 20. Deaths for the 10 leading causes of death for Hispanic and white non-Hispanic origin, for specified age groups: Total of 18 reporting States and the District of Columbia, 1987—Con.

[For explanation of asterisk preceding cause-of-death codes, see Technical notes. For a listing of reporting States, see Technical notes]

Hispanic			White non-Hispanic		
Rank order	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number	Rank order	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number
45-64 years			45-64 years		
...	All causes	11,151	...	All causes	138,778
1	Diseases of heart . . . . .390-398,402,404-429	3,036	1	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	51,204
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	2,818	2	Diseases of heart . . . . .390-398,402,404-429	43,956
3	Chronic liver disease and cirrhosis . . . . .571	827	3	Cerebrovascular diseases . . . . .430-438	5,001
4	Accidents and adverse effects . . . . .E800-E949	610	4	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	4,965
...	Motor vehicle accidents . . . . .E810-E825	334	5	Accidents and adverse effects . . . . .E800-E949	4,847
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	276	...	Motor vehicle accidents . . . . .E810-E825	2,362
5	Cerebrovascular diseases . . . . .430-438	588	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	2,485
6	Diabetes mellitus . . . . .250	489	6	Chronic liver disease and cirrhosis . . . . .571	4,056
7	Human immunodeficiency virus infection . . . . .*042-*044	259	7	Suicide. . . . .E950-E959	3,001
8	Homicide and legal intervention . . . . .E960-E978	204	8	Diabetes mellitus . . . . .250	2,478
9	Pneumonia and influenza . . . . .480-487	196	9	Pneumonia and influenza . . . . .480-487	1,829
10	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	175	10	Human immunodeficiency virus infection . . . . .*042-*044	1,106
...	All other causes . . . . .Residual	1,949	...	All other causes . . . . .Residual	16,335
65 years and over			65 years and over		
...	All causes	23,042	...	All causes	600,772
1	Diseases of heart . . . . .390-398,402,404-429	8,831	1	Diseases of heart . . . . .390-398,402,404-429	250,527
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	4,535	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . .140-208	124,379
3	Cerebrovascular diseases . . . . .430-438	1,873	3	Cerebrovascular diseases . . . . .430-438	50,677
4	Pneumonia and influenza . . . . .480-487	1,049	4	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	27,499
5	Diabetes mellitus . . . . .250	925	5	Pneumonia and influenza . . . . .480-487	25,748
6	Chronic obstructive pulmonary diseases and allied conditions . . . . .490-496	766	6	Diabetes mellitus . . . . .250	10,169
7	Accidents and adverse effects . . . . .E800-E949	435	7	Accidents and adverse effects . . . . .E800-E949	9,478
...	Motor vehicle accidents . . . . .E810-E825	163	...	Motor vehicle accidents . . . . .E810-E825	2,483
...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	272	...	All other accidents and adverse effects. . . . .E800-E807,E826-E949	6,995
8	Nephritis, nephrotic syndrome, and nephrosis . . . .580-589	417	8	Atherosclerosis. . . . .440	8,985
9	Chronic liver disease and cirrhosis . . . . .571	382	9	Nephritis, nephrotic syndrome, and nephrosis . . . .580-589	6,659
10	Septicemia . . . . .038	324	10	Septicemia . . . . .038	5,628
...	All other causes . . . . .Residual	3,505	...	All other causes . . . . .Residual	81,023

<sup>1</sup>Includes deaths under 1 year of age.

**Table 21. Infant, neonatal, and postneonatal deaths and mortality rates, by specified Hispanic origin and race for non-Hispanic origin: Total of 18 reporting States and the District of Columbia, 1987**

[Rates per 1,000 live births in specified group. Live births based on origin of mother. For a listing of reporting States, see Technical notes]

Age	All origins	Hispanic					Non-Hispanic			Not stated <sup>3</sup>
		Total	Mexican	Puerto Rican	Cuban	Other Hispanic <sup>1</sup>	Total <sup>2</sup>	White	Black	
Number										
Under 1 year . . . . .	20,386	2,952	1,854	259	24	815	15,807	9,965	5,201	1,627
Under 28 days . . . . .	12,983	1,885	1,201	155	13	516	9,844	6,243	3,233	1,254
28 days–11 months . . . . .	7,403	1,067	653	104	11	299	5,963	3,722	1,968	373
Rate										
Under 1 year . . . . .	<sup>4</sup> 10.0	7.9	7.6	7.3	7.5	9.2	9.8	8.4	16.5	...
Under 28 days . . . . .	<sup>4</sup> 6.3	5.0	4.9	4.3	4.1	5.8	6.1	5.2	10.3	...
28 days–11 months . . . . .	<sup>4</sup> 3.6	2.9	2.7	2.9	3.4	3.4	3.7	3.1	6.3	...

<sup>1</sup>Includes Central and South American and other and unknown Hispanic.  
<sup>2</sup>Includes races other than white and black.  
<sup>3</sup>Includes infant deaths that occurred in States that did not report Hispanic origin on the death certificate.  
<sup>4</sup>Figures for origin not stated included in All origins but not distributed among origin groups.

**Table 22. Number of autopsies and percent of deaths for which autopsies were reported for 15 leading causes of death: United States, 1987**

[For explanation of asterisk preceding cause-of-death codes, see Technical notes]

Rank order <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Total deaths	Reported autopsy	
			Number	Percent
...	All causes . . . . .	2,123,323	253,023	11.9
1	Diseases of heart . . . . . .390–398,402,404–429	760,353	61,339	8.1
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . .140–208	476,927	21,331	4.5
3	Cerebrovascular diseases . . . . . .430–438	149,835	6,022	4.0
4	Accidents and adverse effects. . . . . .E800–E949	95,020	46,291	48.7
...	Motor vehicle accidents . . . . . .E810–E825	48,290	24,496	50.7
...	All other accidents and adverse effects . . . . . .E800–E807, E826–E949	46,730	21,795	46.6
5	Chronic obstructive pulmonary diseases and allied conditions . . . . . .490–496	78,380	4,438	5.7
6	Pneumonia and influenza . . . . . .480–487	69,225	6,452	9.3
7	Diabetes mellitus. . . . . .250	38,532	1,961	5.1
8	Suicide . . . . . .E950–E959	30,796	16,316	53.0
9	Chronic liver disease and cirrhosis. . . . . .571	26,201	5,334	20.4
10	Atherosclerosis. . . . . .440	22,474	721	3.2
11	Nephritis, nephrotic syndrome, and nephrosis . . . . . .580–589	22,052	1,190	5.4
12	Homicide and legal intervention . . . . . .E960–E978	21,103	20,254	96.0
13	Septicemia . . . . . .038	19,916	2,021	10.1
14	Certain conditions originating in the perinatal period. . . . . .760–779	18,222	4,769	26.2
15	Human immunodeficiency virus infection . . . . . .*042–*044	13,468	2,138	15.9
...	All other causes . . . . . .Residual	280,819	52,446	18.7

<sup>1</sup>Rank based on number of deaths; see Technical notes.



Table 23. Deaths and percent distribution of deaths, by marital status according to race and sex: United States, 1987

Marital status	All races			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Number											
Total . . . . .	2,068,117	1,075,911	992,206	1,804,793	930,980	873,813	263,324	144,931	118,393	239,617	130,913	108,704
Never married . .	212,576	130,305	82,271	169,625	100,547	69,078	42,951	29,758	13,193	39,784	27,296	12,488
Ever married . . .	1,844,945	937,880	907,065	1,627,840	825,119	802,721	217,105	112,761	104,344	196,768	101,358	95,410
Married . . . . .	925,923	654,252	271,671	822,412	582,597	239,815	103,511	71,655	31,856	91,478	63,231	28,247
Widowed . . . . .	761,466	191,563	569,903	673,675	166,042	507,633	87,791	25,521	62,270	81,229	23,631	57,598
Divorced . . . . .	157,556	92,065	65,491	131,753	76,480	55,273	25,803	15,585	10,218	24,061	14,496	9,565
Not stated . . . . .	10,596	7,726	2,870	7,328	5,314	2,014	3,268	2,412	856	3,065	2,259	806
	Percent distribution											
Total . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Never married . .	10.3	12.2	8.3	9.4	10.9	7.9	16.5	20.9	11.2	16.8	21.2	11.6
Ever married . . .	89.7	87.8	91.7	90.6	89.1	92.1	83.5	79.1	88.8	83.2	78.8	88.4
Married . . . . .	45.0	61.2	27.5	45.8	62.9	27.5	39.8	50.3	27.1	38.7	49.1	26.2
Widowed . . . . .	37.0	17.9	57.6	37.5	17.9	58.2	33.8	17.9	53.0	34.3	18.4	53.4
Divorced . . . . .	7.7	8.6	6.6	7.3	8.3	6.3	9.9	10.9	8.7	10.2	11.3	8.9

**Table 24. Deaths and death rates from 16 selected subcategories of Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, by race and sex: United States, 1987**

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of diseases, 1975)	All races			White			All other					
	Both sexes		Female	Both sexes		Female	Total			Black		
	Male	Male		Male	Both sexes		Male	Female	Both sexes	Male	Female	
	Number											
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues <sup>1</sup> . . . . .140-208	476,927	254,653	222,274	418,473	221,757	196,716	58,454	32,896	25,558	53,027	29,928	23,099
Malignant neoplasm of esophagus . . . . .150	9,089	6,723	2,366	7,022	5,190	1,832	2,067	1,533	534	1,965	1,452	513
Malignant neoplasm of stomach . . . . .151	13,742	8,241	5,501	11,194	6,721	4,473	2,548	1,520	1,028	2,132	1,285	847
Malignant neoplasms of colon, rectum, rectosigmoid junction, and anus . . . . .153,154	56,334	27,889	28,445	50,113	24,901	25,212	6,221	2,988	3,233	5,610	2,642	2,968
Malignant neoplasm of pancreas . . . . .157	23,737	11,550	12,187	20,664	10,040	10,624	3,073	1,510	1,563	2,778	1,348	1,430
Malignant neoplasms of trachea, bronchus, and lung . . . . .162	130,009	87,261	42,748	114,888	76,398	38,490	15,121	10,863	4,258	13,886	10,065	3,821
Malignant melanoma of skin . . . . .172	5,913	3,635	2,278	5,786	3,578	2,208	127	57	70	108	46	62
Malignant neoplasm of cervix uteri . . . . .180	4,425	...	4,425	3,349	...	3,349	1,076	...	1,076	969	...	969
Malignant neoplasms of body of uterus and of uterus, part unspecified . . . . .179,182	5,894	...	5,894	5,002	...	5,002	892	...	892	841	...	841
Malignant neoplasm of ovary . . . . .183.0	11,838	...	11,838	10,843	...	10,843	995	...	995	880	...	880
Malignant neoplasm of prostate . . . . .185	27,864	27,864	...	23,169	23,169	...	4,695	4,695	...	4,488	4,488	...
Malignant neoplasm of bladder . . . . .188	9,589	6,490	3,099	8,742	6,006	2,736	847	484	363	785	444	341
Malignant neoplasms of kidney and other and unspecified urinary organs . . . . .189	9,812	5,954	3,858	8,927	5,414	3,513	885	540	345	790	474	316
Malignant neoplasms of brain and other and unspecified parts of nervous system . . . . .191,192	10,833	5,824	5,009	10,109	5,426	4,683	724	398	326	641	351	290
Hodgkin's disease . . . . .201	1,755	1,023	732	1,574	915	659	181	108	73	161	98	63
Malignant lymphoma other than Hodgkin's disease . . . . .200,202	16,419	8,348	8,071	15,275	7,709	7,566	1,144	639	505	971	544	427
Multiple myeloma and other immunoproliferative neoplasms . . . . .203	8,141	4,181	3,960	6,729	3,458	3,271	1,412	723	689	1,347	693	654
	Rate											
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues <sup>1</sup> . . . . .140-208	195.9	214.8	178.0	203.3	220.5	186.9	155.5	183.3	130.1	178.3	212.2	147.8
Malignant neoplasm of esophagus . . . . .150	3.7	5.7	1.9	3.4	5.2	1.7	5.5	8.5	2.7	6.6	10.3	3.3
Malignant neoplasm of stomach . . . . .151	5.6	7.0	4.4	5.4	6.7	4.3	6.8	8.5	5.2	7.2	9.1	5.4
Malignant neoplasms of colon, rectum, rectosigmoid junction, and anus . . . . .153,154	23.1	23.5	22.8	24.3	24.8	24.0	16.6	16.7	16.5	18.9	18.7	19.0
Malignant neoplasm of pancreas . . . . .157	9.8	9.7	9.8	10.0	10.0	10.1	8.2	8.4	8.0	9.3	9.6	9.1
Malignant neoplasms of trachea, bronchus, and lung . . . . .162	53.4	73.6	34.2	55.8	76.0	36.6	40.2	60.5	21.7	46.7	71.4	24.4
Malignant melanoma of skin . . . . .172	2.4	3.1	1.8	2.8	3.6	2.1	0.3	0.3	0.4	0.4	0.3	0.4
Malignant neoplasm of cervix uteri . . . . .180	1.8	...	3.5	1.6	...	3.2	2.9	...	5.5	3.3	...	6.2
Malignant neoplasms of body of uterus and of uterus, part unspecified . . . . .179,182	2.4	...	4.7	2.4	...	4.8	2.4	...	4.5	2.8	...	5.4
Malignant neoplasm of ovary . . . . .183.0	4.9	...	9.5	5.3	...	10.3	2.6	...	5.1	3.0	...	5.6
Malignant neoplasm of prostate . . . . .185	11.4	23.5	...	11.3	23.0	...	12.5	26.2	...	15.1	31.8	...
Malignant neoplasm of bladder . . . . .188	3.9	5.5	2.5	4.2	6.0	2.6	2.3	2.7	1.8	2.6	3.1	2.2
Malignant neoplasms of kidney and other and unspecified urinary organs . . . . .189	4.0	5.0	3.1	4.3	5.4	3.3	2.4	3.0	1.8	2.7	3.4	2.0
Malignant neoplasms of brain and other and unspecified parts of nervous system . . . . .191,192	4.5	4.9	4.0	4.9	5.4	4.5	1.9	2.2	1.7	2.2	2.5	1.9
Hodgkin's disease . . . . .201	0.7	0.9	0.6	0.8	0.9	0.6	0.5	0.6	0.4	0.5	0.7	0.4
Malignant lymphoma other than Hodgkin's disease . . . . .200,202	6.7	7.0	6.5	7.4	7.7	7.2	3.0	3.6	2.6	3.3	3.9	2.7
Multiple myeloma and other immunoproliferative neoplasms . . . . .203	3.3	3.5	3.2	3.3	3.4	3.1	3.8	4.0	3.5	4.5	4.9	4.2

<sup>1</sup>Includes figures for subcategories not shown.

Table 25. Deaths and death rates by 10-year age groups and age-adjusted death rates for Human immunodeficiency virus infection, by race and sex: United States, 1987

[Human immunodeficiency virus infection deaths are those assigned to category numbers \*042--\*044 introduced in the United States in 1987; see Technical notes]

Race and sex	Age												Age-adjusted rate <sup>3</sup>
	All ages <sup>1</sup>	Under 1 year <sup>2</sup>	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	
	Number												
All races . . . . .	13,468	87	104	47	492	5,026	4,794	1,838	761	230	73	13	...
Male . . . . .	12,088	41	53	33	429	4,436	4,431	1,739	698	179	41	6	...
Female . . . . .	1,380	46	51	14	63	590	363	99	63	51	32	7	...
White . . . . .	9,328	33	50	33	305	3,330	3,328	1,381	588	200	69	10	...
Male . . . . .	8,700	20	25	26	282	3,087	3,183	1,328	545	160	39	4	...
Female . . . . .	628	13	25	7	23	243	145	53	43	40	30	6	...
All other . . . . .	4,140	54	54	14	187	1,696	1,466	457	173	30	4	3	...
Male . . . . .	3,388	21	28	7	147	1,349	1,248	411	153	19	2	2	...
Female . . . . .	752	33	26	7	40	347	218	46	20	11	2	1	...
Black . . . . .	4,040	54	52	14	183	1,670	1,427	440	168	24	3	3	...
Male . . . . .	3,301	21	26	7	145	1,326	1,212	395	150	15	1	2	...
Female . . . . .	739	33	26	7	38	344	215	45	18	9	2	1	...
	Rate												
All races . . . . .	5.5	2.3	0.7	0.1	1.3	11.6	14.0	7.9	3.5	1.3	0.8	0.5	5.5
Male . . . . .	10.2	2.1	0.7	0.2	2.2	20.5	26.2	15.4	6.7	2.3	1.2	0.7	10.0
Female . . . . .	1.1	2.5	0.7	0.1	0.3	2.7	2.1	0.8	0.5	0.5	0.6	0.3	1.1
White . . . . .	4.5	1.1	0.4	0.1	1.0	9.1	11.3	6.9	3.0	1.3	0.8	0.4	4.4
Male . . . . .	8.6	1.3	0.4	0.2	1.8	16.8	21.7	13.5	5.9	2.3	1.2	0.6	8.3
Female . . . . .	0.6	0.9	0.4	0.1	0.1	1.3	1.0	0.5	0.4	0.5	0.6	0.3	0.6
All other . . . . .	11.0	7.5	1.9	0.2	2.7	24.6	30.3	14.2	6.6	1.6	0.5	1.2	11.3
Male . . . . .	18.9	5.8	2.0	0.2	4.3	41.1	56.2	28.2	12.9	2.4	0.6	2.4	20.0
Female . . . . .	3.8	9.3	1.9	0.2	1.2	9.6	8.4	2.6	1.4	1.0	0.4	0.6	3.7
Black . . . . .	13.6	9.4	2.4	0.3	3.3	30.9	39.1	17.7	7.9	1.6	0.4	1.4	14.2
Male . . . . .	23.4	7.3	2.4	0.3	5.3	52.0	72.9	35.4	15.6	2.3	0.4	2.9	25.4
Female . . . . .	4.7	11.7	2.4	0.3	1.4	12.0	10.8	3.3	1.5	1.0	0.5	0.7	4.7

<sup>1</sup>Figures for age not stated included in All ages but not distributed among age groups.

<sup>2</sup>Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see tables E, 13, 14, 15, 17, and 21 for infant mortality rates, and Technical notes for further discussion of the difference.

<sup>3</sup>For method of computation, see Technical notes.

Table 26. Deaths and age-adjusted death rates for drug-related causes, by race and sex: United States, 1979-87

[Rates per 100,000 population in specified group. For drug-related causes, see Technical notes]

Year	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
	Number											
1987	9,796	6,146	3,650	7,547	4,600	2,947	2,249	1,546	703	2,101	1,465	636
1986	9,976	6,284	3,692	7,948	4,885	3,063	2,028	1,399	629	1,906	1,335	571
1985	8,663	5,342	3,321	6,946	4,172	2,774	1,717	1,170	547	1,600	1,107	493
1984	7,892	4,640	3,252	6,309	3,587	2,722	1,583	1,053	530	1,480	997	483
1983	7,492	4,145	3,347	6,187	3,378	2,809	1,305	767	538	1,194	724	470
1982	7,310	4,130	3,180	5,991	3,251	2,740	1,319	879	440	1,212	822	390
1981	7,106	3,835	3,271	5,863	3,042	2,821	1,243	793	450	1,152	751	401
1980	6,900	3,771	3,129	5,814	3,088	2,726	1,086	683	403	1,006	648	358
1979	7,101	3,656	3,445	6,116	3,077	3,039	985	579	406	897	540	357
	Age-adjusted death rate <sup>1</sup>											
1987	3.8	4.9	2.7	3.4	4.3	2.5	6.1	9.1	3.5	7.4	11.3	4.1
1986	3.9	5.1	2.8	3.7	4.6	2.7	5.7	8.5	3.2	6.8	10.5	3.7
1985	3.5	4.5	2.6	3.2	4.0	2.5	4.9	7.3	2.9	5.8	8.9	3.3
1984	3.2	3.9	2.5	3.0	3.5	2.5	4.7	6.7	2.9	5.5	8.2	3.2
1983	3.1	3.5	2.6	2.9	3.3	2.5	3.9	5.1	3.0	4.5	6.1	3.3
1982	3.1	3.6	2.6	2.9	3.3	2.5	4.1	5.8	2.6	4.7	6.9	2.8
1981	3.1	3.4	2.7	2.9	3.1	2.7	4.1	5.6	2.7	4.6	6.6	3.0
1980	3.0	3.4	2.6	2.9	3.2	2.6	3.7	4.9	2.5	4.1	5.8	2.7
1979	3.1	3.4	2.9	3.1	3.2	3.0	3.4	4.3	2.6	3.7	4.9	2.7

<sup>1</sup>For method of computation, see Technical notes.

## Technical notes

### Nature and sources of data

Data shown in this report are based on information from all death certificates filed in the 50 States and the District of Columbia.

Mortality statistics are based on information coded by the National Center for Health Statistics (NCHS) from copies of the original certificates received from the State registration offices, and on State-coded data provided to NCHS through the Vital Statistics Cooperative Program (VSCP). In 1987 all the States and the District of Columbia participated in this program and submitted part or all of the mortality data for 1987 on computer tape to NCHS. The following 22 States in the VSCP submitted precoded medical data for all deaths on computer tapes: California, Colorado, Florida, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Nebraska, New Hampshire, New York State (excluding New York City), North Carolina, Pennsylvania, South Carolina, Texas, Vermont, Virginia, and Wisconsin. The remaining 28 VSCP States, New York City, and the District of Columbia submitted copies of the original certificates from which NCHS coded the medical data. For 1987 all States submitted precoded demographic data for all deaths.

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

### Cause-of-death classification

The mortality statistics presented here were compiled in accordance with the World Health Organization regulations, which specify that member nations classify causes of death by the current *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death*.

Causes of death for 1979–87 were classified according to the *Ninth Revision International Classification of*

*Diseases* (2). For earlier years causes of death were classified according to the revisions then in use, as follows: 1968–78, Eighth Revision; 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. Consequently, cause-of-death comparisons between revisions require consideration of comparability ratios and, where available, estimates of their standard errors. 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 (3–5).

Besides specifying the classification, the World Health Organization (WHO) regulations outline the form of medical certification and the procedures to be used in coding cause of death. Cause-of-death data presented in this publication were coded by procedures outlined in annual issues of Part 2a of the *NCHS instruction manual* (6).

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 that initiated the train of events leading directly to death or as the circumstances of the accident or violence that produced the fatal injury. 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 International Classification of Diseases (ICD), and associated selection rules. In general, more medical information is reported on death certificates than is directly reflected in the underlying cause of death.

### New codes for HIV infection

Beginning with data for 1987, NCHS introduced new category

numbers \*042–\*044 for classifying and coding human immunodeficiency virus (HIV) infection, formerly referred to as human T-cell lymphotropic virus-III/lymphadenopathy-associated virus (HTLV-III/LAV) infection. The asterisk before the category numbers indicates that these codes are not part of the Ninth Revision of the International Classification of Diseases (ICD–9). Deaths classified to Human immunodeficiency virus infection (Nos. \*042–\*044) for 1987 are shown in table 25. They are included, but not shown separately, in the category All other infectious and parasitic diseases in the List of 72 selected causes of death shown in tables 8–12. Prior to 1987, deaths involving HIV infection were classified to Deficiency of cell-mediated immunity (ICD 279.1), contained in the category All other diseases; to Pneumocystosis (ICD–9 No. 136.3), contained in the category All other infectious and parasitic diseases; to Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; and to a number of other causes. As a consequence, cause-of-death data for 1987 are not strictly comparable with data for previous years.

For data years 1983–86, acquired immunodeficiency syndrome and HIV infection, when reported on the death certificate, were assigned to the category Deficiency of cell-mediated immunity (ICD–9 No. 279.1). Because the selection rules for underlying cause of death were developed prior to the identification of acquired immunodeficiency syndrome, other conditions mentioned on the death certificate and not category No. 279.1 were often selected as the underlying cause of death during this period. Also, the category ICD–9 No. 279.1 was not uniquely specific for HIV conditions. As mentioned in more detail in the Advance Reports for 1984, 1985, and 1986, death certificates that had mention of conditions coded to ICD–9 No. 279.1 for these years numbered 2,943, 6,040, and 10,900, respectively (7–9). It is believed that HIV infection was involved in most of these deaths.

## Drug-related deaths

Causes of death attributable to drug-related mortality include ICD-9 Nos. 292, Drug psychoses; 304, Drug dependence; 305.2-305.9, Nondependent use of drugs, not including alcohol and tobacco; E850-E858, Accidental poisoning by drugs, medicaments, and biologicals; E950.0-E950.5, Suicide by drugs, medicaments, and biologicals; E962.0, Assault from poisoning by drugs and medicaments; and E980.0-E980.5, Poisoning by drugs, medicaments, and biologicals, undetermined whether accidentally or purposely inflicted.

## Quality of reporting of cause-of-death

One index of the quality of reporting causes of death is the proportion of death certificates coded to the Ninth Revision Chapter XVI Symptoms, signs, and ill-defined conditions (ICD-9 Nos. 780-799). Although there are deaths for which it is not possible to determine the underlying cause, this proportion indicates the care and consideration given to the certification by the medical certifier. It may also be used as a rough measure of the specificity of the medical diagnoses made by the certifier in various areas. In 1987, 1.47 percent of all reported deaths in the United States were assigned to ill-defined or unknown causes compared with 1.49 percent for 1986. However, trends in the percent of deaths assigned to this category vary by age. While the percent for all ages combined generally has remained stable since 1979, declines have occurred for persons in age groups 55-64 and 65-74 years since 1983, and increases have occurred for age groups under 55 years since 1984. For persons aged 75-84 and 85 years and over, there has been no clear pattern of change in the percent of deaths assigned to Symptoms, signs, and ill-defined conditions.

## Population bases for computing rates

The population used for computing rates shown in this report (furnished by

the U.S. Bureau of the Census) represents the population residing in the specified area. Death rates for 1987 are based on population estimates as of July 1, 1987 (10,11). The estimates are based on the 1980 census counts. The 1980 census counts by race were modified to be consistent with U.S. Office of Management and Budget categories and historical categories for death data. The modification procedures are discussed in detail in a report of the U.S. Bureau of the Census (12).

Population estimates used to compute death rates for 1984-87 incorporate new estimation procedures for net migration and net undocumented immigration. Death rates for 1987 are comparable with those for 1984, 1985, and 1986 but are not strictly comparable with those of previous years. For additional detail, see *Advance Report of Final Mortality Statistics, 1984* (7), and a report of the U.S. Bureau of the Census (13).

Infant mortality rates shown in figure 5 and tables E, 13, 14, 15, 17, and 21 are the most commonly used index for measuring the risk of dying during the first year of life; they 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. Infant mortality rates use the number of live births in the denominator to approximate the population at risk of dying before the first birthday.

In contrast to infant mortality rates based on live births, infant death rates shown in figure 2 and tables A, 2, 5, 9, and 25 are based on the estimated population under 1 year of age. Infant death rates that appear in tabulations of age-specific death rates are calculated by dividing the number of infant deaths in a calendar year by the mid-year population of persons under 1 year of age (estimated from births occurring in the 12-month period ending with June) and are presented as rates per 100,000 population in this age group. Due to differences in the denominators, infant death rates may differ from infant mortality rates.

## Cause-of-death rankings

The cause-of-death rankings shown in figure 4 and tables B-D, 5-7, 20, and 22 are based on the List of 72 selected causes of death and the category Human immunodeficiency virus infection (HIV infection) (\*042-\*044); the cause-of-death ranking for infants in table 14 is based on the List of 61 Selected Causes of Infant Death and HIV infection. HIV infection was added to the list of rankable causes effective with data year 1987.

The group titles Major cardiovascular diseases and Symptoms, signs, and ill-defined conditions are not ranked from the List of 72 Selected Causes; Certain conditions originating in the perinatal period and Symptoms, signs, and ill-defined conditions are not ranked from the List of 61 Selected Causes of Infant Death. 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), its component parts are not ranked (in this case, Tuberculosis of respiratory system and Other tuberculosis).

## Age-adjusted rates

The age-adjusted rates presented in this report were computed by the direct method, that is, by applying the age-specific death rates for a given cause of death to the standard population distributed by age. The total population as enumerated in 1940 was selected as the standard. The rates for the total population and for each race-sex group were adjusted separately, by using the same standard population. The age-adjusted rates were based on 10-year age groups. It is important not to compare age-adjusted death rates with crude rates.

## Random variation

Although the mortality data in this report (except data for 1972) are not subject to sampling error, they may be affected by random variation in the

number of deaths involved. When the number of events is small (perhaps less than 100) and the probability of such an event is small, considerable caution must be observed in interpreting the data. Such infrequent events may be assumed to follow a Poisson probability distribution. For this distribution, a simple approximation may be used to estimate the confidence interval, as follows:

If  $N$  is the number of registered deaths in the population and  $R$  is the corresponding rate, the chances are 19 in 20 (approximate 95-percent confidence interval) that

$$1. N - 2\sqrt{N} \text{ and } N + 2\sqrt{N}$$

cover the "true" number of events.

$$2. R - 2 \frac{R}{\sqrt{N}} \text{ and } R + 2 \frac{R}{\sqrt{N}}$$

cover the "true" rate.

If the rate  $R_1$  corresponding to  $N_1$  events is compared with the rate  $R_2$  corresponding to  $N_2$  events, the difference between the two rates may be regarded as statistically significant at the 0.05 level if it exceeds

$$2\sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

Additional information on random variation may be found in the Technical appendix of *Vital Statistics of the United States*, Volume II, Mortality, Part A, 1986.

*Infant and maternal mortality rates*—Comparisons made in the text between infant, neonatal, postneonatal, and maternal mortality rates, unless otherwise specified, were statistically significant at the 0.05 level of significance, as described above. 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.

### Life tables

U.S. abridged life tables are constructed by reference to a standard life table (14).

### Hispanic origin

For 1987 mortality data for the Hispanic-origin population are based on deaths to residents of 18 reporting States and the District of Columbia whose data were at least 90 percent complete on a place-of-occurrence basis and considered to be sufficiently comparable to be used for analysis. The 18 reporting States are as follows: Arizona, Arkansas, California, Colorado, Georgia, Hawaii, Illinois, Indiana, Kansas, Mississippi, Nebraska, New Jersey, New York (including New York City), North Dakota, Ohio, Texas, Utah, and Wyoming.

Infant mortality rates for 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 18 reporting States

and the District of Columbia. In computing infant mortality rates, deaths and live births of unknown origin are not distributed among the specified Hispanic and non-Hispanic groups. Because for 1987 the percent of infant deaths of unknown origin was 8.0 percent and the percent of live births of unknown origin was 2.9 percent, infant mortality rates by specified Hispanic origin and race for non-Hispanic origin may be somewhat underestimated.

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

In 1980, the 18 reporting States and the District of Columbia accounted for about 80 percent of the Hispanic population in the United States, including about 89 percent of the Mexican population, 78 percent of the Puerto Rican population, 34 percent of the Cuban population, and 68 percent of the "Other Hispanic" population (15). Accordingly, caution should be exercised in generalizing mortality patterns from the reporting area to the Hispanic-origin population (especially Cubans) of the entire United States.

### Computation of percent distributions

Deaths of persons of unknown marital status were subtracted from figures for total deaths used as denominators before percent distributions were computed.

This report represents summary tabulations from the final mortality statistics for 1987. More detailed tabulations for 1987 will be published in *Vital Statistics of the United States, Volume II—Mortality*. Prior to the publication of that volume, the National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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