

Advance Report of Final Mortality Statistics, 1986

Highlights

In 1986 a total of 2,105,361 deaths were registered in the United States, 18,921 more than in 1985 and the largest annual final number ever recorded. Contributing to the increased number of deaths were (1) population growth and the "aging" of the U.S. population, that is, the increasing proportion of older persons, and (2) an outbreak of influenza in 1986. The death rate for 1986 was 873.2 deaths per 100,000 population, about the same as the rate of 873.9 in 1985. Provisional data for 1987 indicate the death rate (874.0) to be up very slightly from 1986.

The age-adjusted death rate, which eliminates the effects of the aging of the population, was 541.7 per 100,000 population, lower than the rate of 546.1 in 1985. The age-adjusted rate decreased for the white population but remained essentially unchanged for the black population between 1985 and 1986. The rates decreased for both white males and females, although more for males; rates for both black males and females were essentially the same for the two years.

In 1986 life expectancy at birth reached a record high of 74.8 years, slightly higher than in 1985. For the white population, it also attained a record; but for the black population, it declined for the second year in a row. 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 7.0 years. Between the white and black populations, the difference in life expectancy has been narrowing over the past 25 years; however, the difference in 1986 (6.0 years higher for the white population) was greater than in 1985 (5.8 years).

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. Although the age-adjusted death rate for Accidents and

adverse effects increased by 1 percent between 1985 and 1986, rates for the other three leading causes declined. The decline in the age-adjusted death rate for cancer between 1985 and 1986 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 between 1985 and 1986 compared with the downward trend between 1979 and 1983. Mortality from Homicide and legal intervention, the 12th leading cause, increased more rapidly than for any of the other leading causes of death between 1985 and 1986—by 8 percent; this contrasts with the general decline in mortality from this cause since 1980.

Males experienced higher mortality than females for each of the 15 leading causes of death. The greatest sex differential was for Suicide, where the age-adjusted rate for males was 3.8 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, where the age-adjusted rate for the black population was 5.8 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.

The infant mortality rate (10.4 infant deaths per 1,000 live births) was at a record low in 1986. The rate declined for the white population, but the change between 1985 and 1986 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 declined from 1985 to 1986, but the decline was statistically significant only for the white population; the changes in post-neonatal mortality rates between 1985 and 1986 were not 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, and 1986 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 analyzing differences in death rates for the period 1984–86 with those of previous years for certain age-race-sex subgroups. For further discussion, see the Technical notes.

In 1986 a total of 2,105,361 deaths occurred in the United States, 18,921 more than in 1985 and the largest final number ever recorded. Contributing to the increased number of deaths were (1) the continued increase in the size of the population as well as the increasing proportion of older persons and (2) an influenza outbreak in 1986 (Centers for Disease Control, 1986) with higher mortality than in 1985. The death rate for 1986, 873.2 per 100,000 population, was essentially the same as the rate in 1985 (873.9). The 1986 rate of 29.0 deaths per 100,000 population for Pneumonia and influenza contrasts with a rate of 21.1 in 1982, when influenza mortality was not elevated. The provisional death rate for 1987 (874.0) is up slightly from 1986.

The age-adjusted death rate of 541.7 deaths per 100,000 population in 1986 was a record low, about 1 percent below the rate for 1985 (546.1) (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 1985 and 1986 (table A). They declined

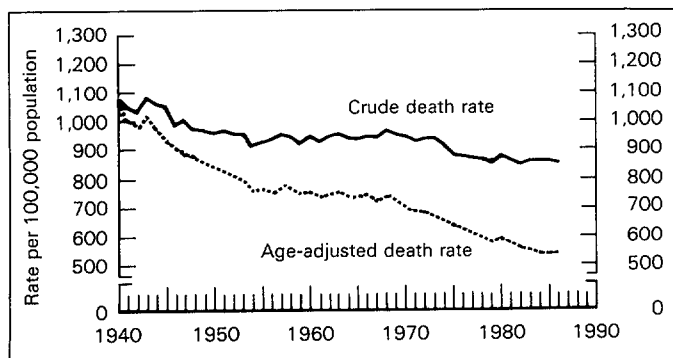


Figure 1. Crude and age-adjusted death rates: United States, 1940–86

Table A. Percent change in death rates between 1985 and 1986 by age and sex: United States

Age	Total	Male	Female
Percent change			
All ages.....	-0.1	-0.5	+0.3
Under 1 year ¹	-3.3	-3.7	-2.9
1-4 years.....	+1.2	-0.3	+2.9
5-14 years.....	-1.1	+0.3	-4.3
15-24 years.....	+6.7	+7.3	+4.8
25-34 years.....	+7.1	+8.3	+3.9
35-44 years.....	+2.8	+3.5	+1.1
45-54 years.....	-2.2	-2.4	-2.1
55-64 years.....	-2.2	-2.6	-1.4
65-74 years.....	-1.3	-2.3	-0.2
75-84 years.....	-1.5	-1.8	-1.3
85 years and over.....	-0.5	-0.8	-0.3

¹Death rates under 1 year (based on population estimates) differ from infant mortality rates (based on live births); see table E for 1986 infant mortality rates, and Technical notes for further discussion of the difference.

for the age groups under 1 year, 5–14 years, and each 10-year age group beginning with 45–54 years. The largest decline (3 percent) occurred for the age group under 1 year. In contrast, large increases in mortality occurred in the age groups 15–24, 25–34, and 35–44 years. The increase of 7.1 percent for persons 25–34 years is a departure from the general downward trend in mortality for this age group during the 1980's.

Both males and females showed essentially the same changes in mortality by age between 1985 and 1986 as the total population for both sexes combined. However, for males the increases as well as the decreases between 1985 and 1986 tended to be larger in magnitude than for females (figure 2). The change in mortality between 1985 and 1986 differed between the major race groups. The age-adjusted death rate declined by about 1 percent for the white population, while remaining about the same for the black population.

The age-adjusted death rates for both white males and females declined between 1985 and 1986—by 1.3 percent for white males, and by less than 1 percent for white females. In contrast, for the black population the age-adjusted death rate remained about the same between the two years for both males and females. In 1986 the age-adjusted death rate for males of all races was 1.7 times that for females, similar to the ratio in 1985. This ratio between male and female age-adjusted death rates differed very little between the white and black populations. As in the past three years, the age-adjusted death rate for the black population in 1986 was 1.5 times that for the white population.

Expectation of life at birth and at specified ages

In 1986 the average expectation of life at birth reached a record high of 74.8 years (figure 3). This continued the general upward trend in life expectancy in the United States.

The expectation of life at birth for 1986 represents the average number of years that a group of infants would live if

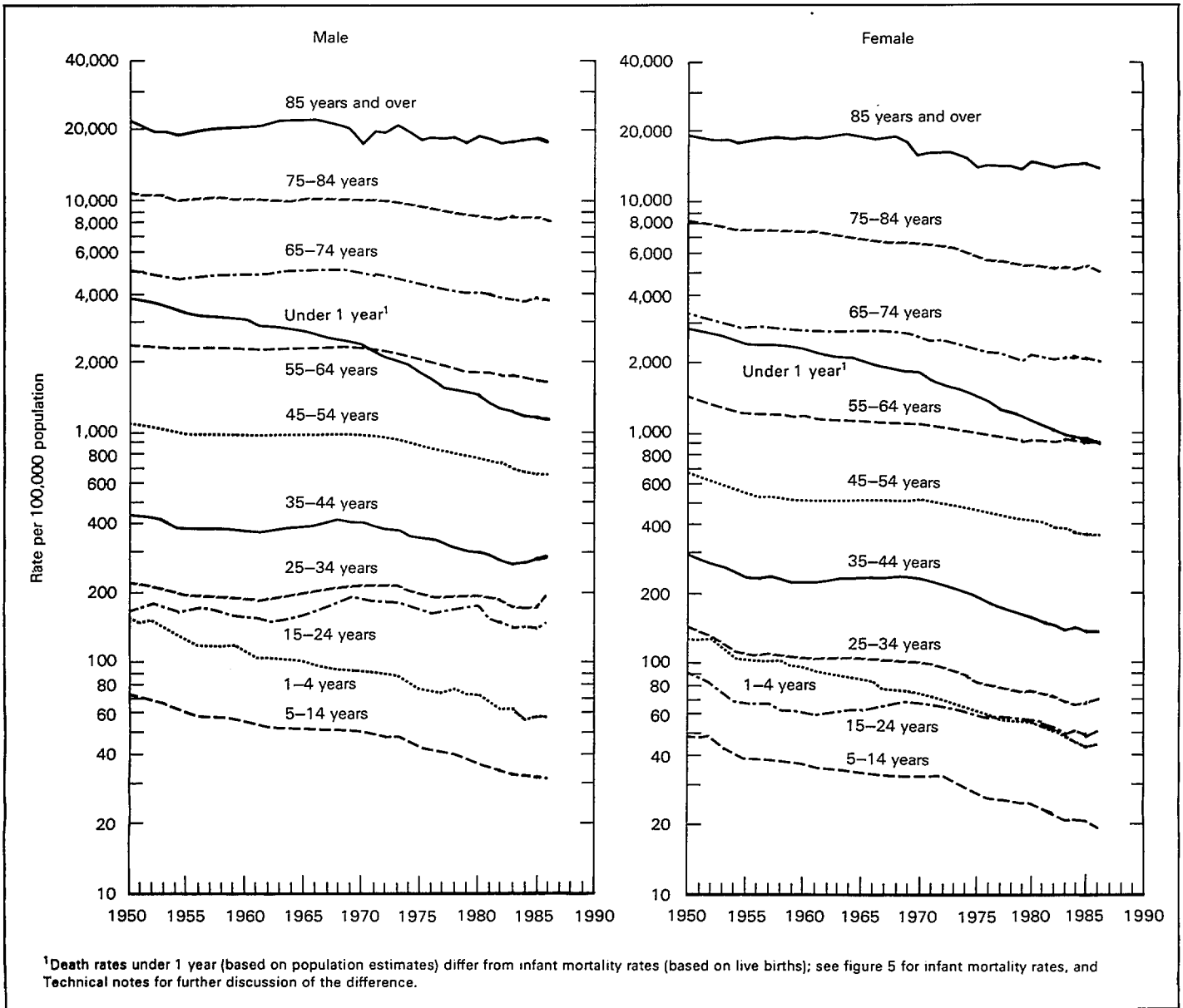


Figure 2. Death rates by age and sex: United States, 1950-86

they were to experience throughout life the age-specific death rates prevailing in 1986. In 1986 life expectancy for females was 78.3 compared with 71.3 years for males; both figures represent increases over 1985. The difference in life expectancy between the sexes, which had been widening from 1900 to 1972, has narrowed since 1979. The difference was 7.0 years in 1985 and 1986 compared with 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 1985 and 1986 the white population experienced an increase in life expectancy, to a record high of 75.4 years; but the black population experienced a decrease for the second year in a row, to 69.4 years, the same level as in 1982. This is the first time that a decline in life expectancy has occurred two years in succession for the black population since 1970, the

first year when the life expectancy data for the black population became available on an annual basis. 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.

Among the four race-sex groups, white females continued to have the highest life expectancy at birth (78.8 years), followed by black females (73.5 years), white males (72.0 years), and black males (65.2). The largest gain in life expectancy between 1970 and 1986 was for both black males and females (5.2 years), followed by white males (4.0 years) and white females (3.2 years).

The 1986 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

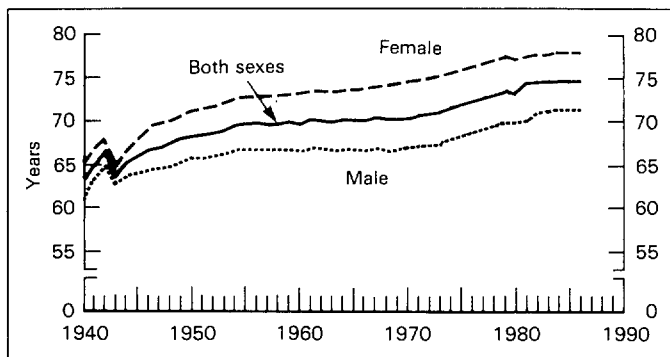


Figure 3. Life expectancy by sex: United States, 1940-86

age, on the average, than one who has reached 50 years. On the basis of mortality experienced in 1986, a person aged 50 years could expect to live an average of 28.5 more years for a total of 78.5 years, and a person aged 65 years could expect to live an average of 16.8 more years for a total of 81.8 years.

Cause of death

Deaths assigned to the 15 leading causes accounted for 87 percent of the total number of deaths in 1986 (table B). (For ranking procedures see Technical notes.) The ranking of the leading causes for 1986 changed slightly from the list based on

Table B. Death rates and percent of total deaths for the 15 leading causes of death: United States, 1986

[Rates per 100,000 population]

Rank ¹	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Rate	Percent of total deaths
...	All causes	873.2	100.0
1	Diseases of heart	317.5	36.4
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	194.7	22.3
3	Cerebrovascular diseases	62.1	7.1
4	Accidents and adverse effects	39.5	4.5
...	Motor vehicle accidents	19.9	...
...	All other accidents and adverse effects	19.7	...
5	Chronic obstructive pulmonary diseases and allied conditions	31.8	3.6
6	Pneumonia and influenza	29.0	3.3
7	Diabetes mellitus	15.4	1.8
8	Suicide	12.8	1.5
9	Chronic liver disease and cirrhosis	10.9	1.2
10	Atherosclerosis	9.4	1.1
11	Nephritis, nephrotic syndrome, and nephrosis	9.0	1.0
12	Homicide and legal intervention	9.0	1.0
13	Septicemia	7.8	0.9
14	Certain conditions originating in the perinatal period	7.6	0.9
15	Congenital anomalies	5.2	0.6
...	All other causes	111.5	12.8

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

data for 1985. Septicemia, the 14th leading cause in 1985, increased to 13th in 1986; Certain conditions originating in the perinatal period decreased in rank from the 13th to 14th. Age-adjusted death rates are shown in figure 4 and table C for 13 of the 15 leading causes. Because deaths from the other two causes (Congenital anomalies and Certain conditions originating in the perinatal period) occur mainly among infants under 1 year, age-adjusted rates for these causes are not shown. Differentials and changes in mortality for these two causes are measured by the infant mortality rate per 100,000 live births.

For 5 of these 13 leading causes of death the age-adjusted death rates decreased between 1985 and 1986 (table C). These causes were Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Cerebrovascular diseases; Chronic liver disease and cirrhosis; and Atherosclerosis. The largest declines were for Atherosclerosis (8 percent), and for Chronic liver disease and cirrhosis, and Cerebrovascular diseases (4 percent each). The age-adjusted death rate for Diseases of heart declined 3 percent between the two years. The declines for Atherosclerosis, Cerebrovascular diseases, and Diseases of heart are consistent with the generally downward trends observed since 1950. Chronic liver disease and cirrhosis has exhibited a downward trend since 1979. The slight decline (0.3 percent) between 1985 and 1986 in the age-adjusted death rate for Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, 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 almost every age group under 65 years.

Increases in the age-adjusted death rates between 1985 and 1986 occurred for 6 of the 13 leading causes—Accidents and adverse effects; Chronic obstructive pulmonary diseases and allied conditions; Pneumonia and influenza; Suicide; Homicide and legal intervention; and Septicemia. The largest increase, 8 percent, was for Homicide and legal intervention, the first increase for this cause since 1980. Septicemia increased by 5 percent, continuing the rapid rise observed for the past three decades (figure 4). The age-adjusted death rate for Suicide increased by 4 percent between 1985 and 1986, reaching a level higher than that of 1979. Increases for the remaining three leading causes were 1 percent or less. Increases for two causes, Chronic obstructive pulmonary diseases and allied conditions and Pneumonia and influenza, reflect the outbreak of influenza in 1986 (Centers for Disease Control, 1986). Outbreaks of influenza have occurred each year since 1982; they are associated with elevated mortality for a number of causes but especially for Pneumonia and influenza, and for Chronic obstructive pulmonary diseases and allied conditions. The age-adjusted death rate for Accidents and adverse effects increased between 1985 and 1986, in contrast to the general decline in mortality for this cause since 1979. The increase for this cause reflects the 3-percent increase in its component cause Motor vehicle accidents which had declined between 1984 and 1985. In contrast, the age-adjusted death rate for the other component—All other accidents and adverse effects—declined be-

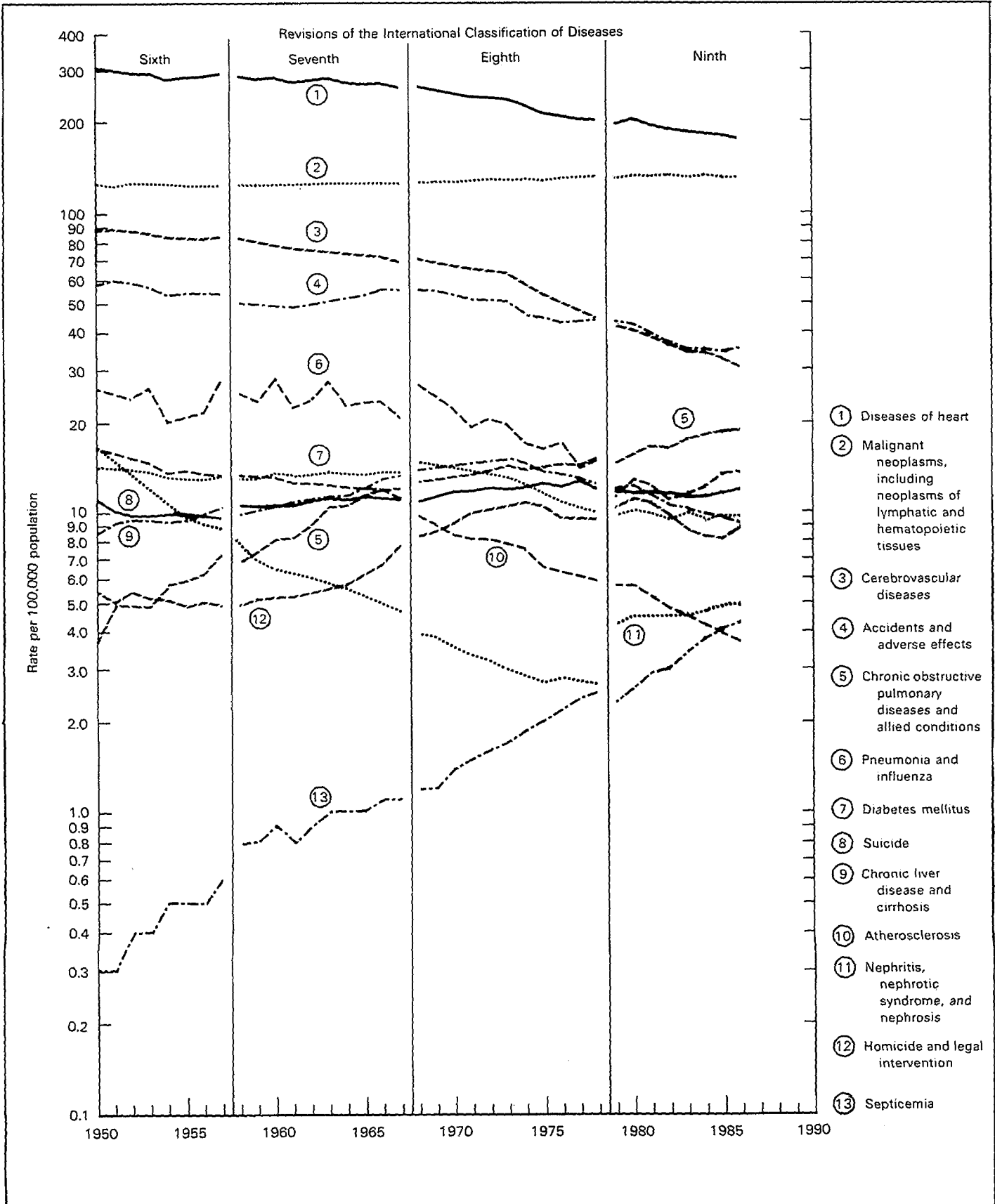


Figure 4. Age-adjusted death rates for 13 of the 15 leading causes of death: United States, 1950-86

Table C. Age-adjusted death rates for 1986 and percent changes in age-adjusted death rates for the 15 leading causes of death from 1985 to 1986 and 1979 to 1986: United States

[Rates per 100,000 population]

Rank ¹	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Age-adjusted death rates for 1986	Percent change from—	
			1985 to 1986	1979 to 1986
...	All causes	541.7	-0.8	-6.1
1	Diseases of heart	175.0	-3.0	-12.3
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	133.2	-0.3	+1.8
3	Cerebrovascular diseases	31.0	-4.0	-25.5
4	Accidents and adverse effects	35.2	+1.4	-17.9
...	Motor vehicle accidents	19.4	+3.2	-16.4
...	All other accidents and adverse effects	15.7	-1.9	-19.9
5	Chronic obstructive pulmonary diseases and allied conditions	18.8	+0.5	+28.8
6	Pneumonia and influenza	13.5	+0.7	+20.5
7	Diabetes mellitus	9.6	-	-2.0
8	Suicide	11.9	+3.5	+1.7
9	Chronic liver disease and cirrhosis	9.2	-4.2	-23.3
10	Atherosclerosis	3.7	-7.5	-35.1
11	Nephritis, nephrotic syndrome, and nephrosis	4.9	-	+14.0
12	Homicide and legal intervention	9.0	+8.4	-11.8
13	Septicemia	4.3	+4.9	+87.0
14	Certain conditions originating in the perinatal period ² .....	...	-4.3	-27.3
15	Congenital anomalies ² .....	...	-3.6	-14.1

¹Rank based on number of deaths; see Technical notes.²Inasmuch as deaths from these causes occur mainly among infants, percent changes are based on infant mortality rates instead of age-adjusted death rates.

tween 1985 and 1986, continuing the downward trend observed for this cause since 1979. Age-adjusted death rates did not change for two of the 13 leading causes of death—Diabetes mellitus and Nephritis, nephrotic syndrome, and nephrosis.

Mortality levels for each of the 15 leading causes of death were higher for males than for females (table D). As was true in previous years, the largest differentials were for violent and accidental causes of death. Specifically, the age-adjusted death rates for Suicide and for Homicide and legal intervention were 3.8 and 3.4 times, respectively, as high for males as for females. The rate for Accidents and adverse effects was 2.8 times as high for males as for females. The smallest sex difference was for Diabetes mellitus, with a male-to-female ratio of 1.1.

For women the age-adjusted death rate for all causes combined declined slightly between 1985 and 1986. Decreases in rates for two of the first three leading causes of death—Diseases of heart and Cerebrovascular diseases—as well as decreases for Diabetes mellitus, Chronic liver disease and cirrhosis, and Atherosclerosis were offset, in part, by increases in rates for other leading causes, among which were Chronic obstructive pulmonary diseases and allied conditions, Pneumonia and influenza, Suicide, Homicide and legal intervention, and Septicemia. Of the leading causes of death, Homicide and legal intervention had the largest increase in mortality between 1985 and 1986 for women; the age-adjusted death rate from this cause increased 5 percent. The age-adjusted rates for Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; for Accidents and adverse effects; and for

Table D. Ratio of age-adjusted death rates for the 15 leading causes of death by sex and race: United States, 1986

Rank ¹	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Ratio of—	
		Male to female	Black to white
...	All causes	1.74	1.51
1	Diseases of heart	1.91	1.37
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	1.47	1.33
3	Cerebrovascular diseases	1.16	1.83
4	Accidents and adverse effects	2.81	1.22
...	Motor vehicle accidents	2.69	0.91
...	All other accidents and adverse effects	2.95	1.63
5	Chronic obstructive pulmonary diseases and allied conditions	2.16	0.80
6	Pneumonia and influenza	1.79	1.47
7	Diabetes mellitus	1.06	2.35
8	Suicide	3.78	0.52
9	Chronic liver disease and cirrhosis	2.20	1.69
10	Atherosclerosis	1.30	1.11
11	Nephritis, nephrotic syndrome, and nephrosis	1.55	2.79
12	Homicide and legal intervention	3.39	5.79
13	Septicemia	1.44	2.63
14	Certain conditions originating in the perinatal period ²	1.28	2.50
15	Congenital anomalies ²	1.12	1.06

¹Rank based on number of deaths; see Technical notes.²Inasmuch as deaths from these causes occur mainly among infants, ratios are based on infant mortality rates instead of age-adjusted death rates.

Nephritis, nephrotic syndrome, and nephrosis were the same in 1985 and 1986.

For men the age-adjusted death rate for all causes combined also declined between 1985 and 1986. Decreases occurred in the rates for the first three leading causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; and Cerebrovascular diseases—as well as for Chronic obstructive pulmonary diseases and allied conditions; Chronic liver disease and cirrhosis; and Atherosclerosis. Increases in the age-adjusted death rate occurred for Accidents and adverse effects; Pneumonia and influenza; Suicide; Nephritis, nephrotic syndrome, and nephrosis; Homicide and legal intervention; and Septicemia. For men, as for women, the largest increase was for Homicide and legal intervention (9 percent). In contrast to the 1984–85 interval, when the age-adjusted death rate for Motor vehicle accidents for men decreased and for women remained the same, between 1985 and 1986 the rate increased for both sexes. The age-adjusted death rate for Diabetes mellitus was unchanged between 1985 and 1986.

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, where the age-adjusted death rate for the black population was 5.8 times that of the white population. Other causes for which the differential was large include Nephritis, nephrotic syndrome, and nephrosis (2.8); Septicemia (2.6); Certain conditions originating in the perinatal period (2.5); and Diabetes mellitus (2.4). Age-adjusted rates for the black population were lower than those for the white population for two causes—Chronic obstructive pulmonary diseases and allied conditions and Suicide.

For the white population decreases in mortality for several of the leading causes—Diseases of heart and Cerebrovascular diseases among others—were offset, in part, by increases in Suicide, Homicide and legal intervention, and Septicemia. For the black population, rates were lower in 1986 than in 1985 for

a number of the leading causes—Diseases of heart; Cerebrovascular diseases; Chronic liver disease and cirrhosis; Atherosclerosis; Nephritis, nephrotic syndrome, and nephrosis; and Congenital anomalies. Of the leading causes that increased for the black population, the largest increase was for Homicide and legal intervention (12 percent). Other increases were for Suicide, Pneumonia and influenza, and Chronic obstructive pulmonary diseases and allied conditions. Between 1985 and 1986 the age-adjusted death rate for Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, decreased slightly for the black population (less than 1 percent); for the white population the rate for this cause also declined slightly between 1985 and 1986, in contrast to the upward trend observed since the 1950's.

AIDS—A count of deaths due specifically to acquired immunodeficiency syndrome (as a result of human immunodeficiency virus (HIV)) is not available from the 1986 national mortality statistics. However, data from this source have been used to provide an approximation of the number of AIDS-related deaths in 1986, as described in the Technical notes.

Infant mortality

In 1986 there were 38,891 deaths of infants under 1 year of age (table E). The infant mortality rate of 10.4 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 10.6. Among white infants, the rate was 8.9, a decline of 4 percent from 1985 (9.3); the rate for black infants was 18.0 in 1986 compared with 18.2 in 1985. For all infants and for white infants considered separately, the change in infant mortality rates between 1985 and 1986 was statistically significant. (For discussion of random variation and statistical significance, see Technical notes.)

The absolute difference in infant mortality rates between black and white infants has been narrowing; in 1960 the difference in rates was 21.4 infants per 1,000 live births com-

Table E. Infant, neonatal, and postneonatal deaths and mortality rates by race and sex: United States, 1986

[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	38,891	1,035.3	25,212	671.1	13,679	364.1
Male	22,224	1,154.6	14,274	741.6	7,950	413.0
Female	16,667	909.9	10,938	597.2	5,729	312.8
White	26,564	894.3	17,256	580.9	9,308	313.4
Male	15,284	1,002.9	9,824	644.7	5,460	358.3
Female	11,280	779.8	7,432	513.8	3,848	266.0
All other	12,327	1,568.1	7,956	1,012.1	4,371	556.0
Male	6,940	1,730.9	4,450	1,109.9	2,490	621.0
Female	5,387	1,398.7	3,506	910.3	1,881	488.4
Black	11,204	1,803.5	7,297	1,174.6	3,907	628.9
Male	6,305	1,996.6	4,096	1,297.1	2,209	699.5
Female	4,899	1,604.0	3,201	1,048.0	1,698	555.9

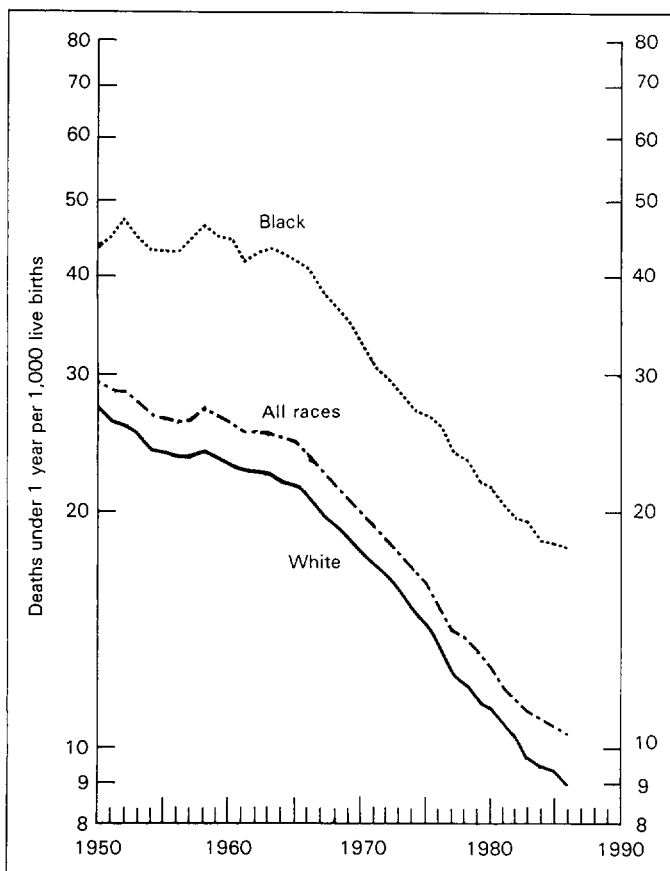


Figure 5. Infant mortality rates by race: United States, 1950-86

pared with 9.1 in 1986 (figure 5). However, because the infant mortality rates for the white and for the black populations have been decreasing by about the same average annual percent between 1960 and 1986, the black infant mortality rate in 1986 was 2.02 times the white rate. The downward trend in infant mortality has slowed for both the white and the black populations—since the late 1970's, for white infants; and since 1981, for black infants.

Between 1985 and 1986, the neonatal mortality rate declined from 7.0 to 6.7 deaths to infants under 28 days per 1,000 live births. By race, the rate in 1986 for the white population was 5.8 per 1,000 live births; and for the black population, 11.7. The difference in the neonatal mortality rate between 1985 and 1986 for the white, but not the black, population was statistically significant. Neonatal mortality rates have declined since 1960 for both races, but the rate for the white population has declined relatively 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 1986 was 3.6, compared with 3.7 in 1985. For the white population, the postneonatal mortality rate in 1986 was 3.1 compared with 3.2 in 1985; and for black infants, the rate in 1986 was 6.3 compared with a rate of 6.1 in 1985. For neither race group was the change between the two years statistically significant. In con-

trast to the trend for neonatal mortality, between 1960 and 1986 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 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 both the black and the white populations.

The ranking of the leading causes of infant mortality for 1986 changed slightly from the list based on data for 1985. Because of an increase in the number of deaths assigned to Accidents and adverse effects, the rank of this cause changed from the ninth leading cause in 1985 to the eighth in 1986. The rank for Newborn affected by complications of placenta, cord, and membranes changed from eighth in 1985 to ninth in 1986. Among the 10 leading causes of infant death, the first 4—Congenital anomalies, Sudden infant death syndrome, Respiratory distress syndrome, and Disorders relating to short gestation and unspecified low birthweight—accounted for just over half of all deaths of infants under 1 year of age in 1986; and the next 6 causes accounted for only 15 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(s) of infant death, the difference between the rate for black infants (232.1 per 100,000 live births) and for white infants (219.5) was not statistically significant. Expressed in terms of 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 (3.7); Pneumonia and influenza (2.5); Intrauterine hypoxia and birth asphyxia (2.1); Infections specific to the perinatal period (2.1); Accidents and adverse effects (2.1); Newborn affected by complications of placenta, cord, and membranes (1.9); Newborn affected by maternal complications of pregnancy (1.9); Sudden infant death syndrome (1.9); and Respiratory distress syndrome (1.8).

Hispanic rate—The infant mortality rate for the Hispanic population in a reporting area comprised of 18 States (see Technical notes) and the District of Columbia was 8.0 deaths of infants under 1 year of age per 1,000 live births, 7 percent below the rate for the white non-Hispanic population (8.6). Among specified subgroups of the Hispanic population, the rate for Mexican infants was lower than that for white non-Hispanic infants. The differences between the rates for Puerto Ricans and Cubans and the white non-Hispanic population were not statistically significant. These rates may be somewhat underestimated (see Technical notes).

Maternal mortality

In 1986, 272 women were reported to have died of maternal causes (table F). As in previous years, the number does not

Table F. Maternal deaths and maternal mortality rates by race: United States, 1986

[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.....	272	7.2
White.....	146	4.9
All other.....	126	16.0
Black.....	117	18.8

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 1986 was 7.2 deaths per 100,000 live births. The differences in the maternal mortality rate for white and black women between 1985 and 1986 were not statistically significant. In 1986 black women were 3.8 times as likely as white women to die of causes associated with pregnancy, childbirth, and the puerperium.

Report of autopsy

For 1986 all States requested information on the death certificate as to whether autopsies were performed. They were

reported as performed on 257,890 deaths, or 12.2 percent of the deaths that occurred in 1986, a reduction from the 12.4 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 (8.3 percent); Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (5.0 percent); and Cerebrovascular diseases (4.1 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 (51.0 percent), and Accidents and adverse effects (48.2 percent). For nontraumatic causes, the highest percents were Congenital anomalies (42.2), Certain conditions originating in the perinatal period (27.5), and Chronic liver disease and cirrhosis (20.6).

Marital status

Almost 90 percent (89.7) of the persons who died in 1986 had ever been married. The percent was larger for females (91.7) than for males (87.9) and for the white population (90.5) than for the black population (83.8). The proportion who were widowed at the time of death was considerably greater for women (57.5 percent) than for men (17.8 percent) but about the same for both major race groups: 37.2 percent of the white population and 34.4 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 standards of reliability or precision

Table 1. Deaths, death rates, and age-adjusted death rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1975-86

[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						White						All other		
	All races			White			Total			Black					
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female			
	Number														
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	135,822	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														
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	800.9	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 ¹														
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	549.4	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	---	---	---			

¹For method of computation, see Technical notes.

Table 2. Deaths and death rates by age, race, and sex: United States, 1986

[Rates per 100,000 population in specific group]

Age	All other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Number											
All ages	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
Under 1 year	38,891	22,224	16,667	26,564	15,284	11,280	12,327	6,940	5,387	11,204	6,305	4,899
1-4 years	7,480	4,262	3,218	5,426	3,119	2,307	2,054	1,143	911	1,801	992	809
5-9 years	4,082	2,437	1,645	2,998	1,814	1,184	1,084	623	461	929	528	401
10-14 years	4,706	3,066	1,640	3,664	2,375	1,289	1,042	691	351	888	591	297
15-19 years	16,224	11,786	4,438	13,293	9,638	3,655	2,931	2,148	783	2,519	1,847	672
20-24 years	23,705	18,048	5,657	18,465	14,125	4,340	5,240	3,923	1,317	4,562	3,409	1,153
25-29 years	26,474	19,595	6,879	19,683	14,733	4,950	6,791	4,862	1,929	6,117	4,384	1,733
30-34 years	30,056	21,631	8,425	21,804	15,978	5,826	8,252	5,653	2,599	7,575	5,210	2,365
35-39 years	33,496	23,027	10,469	24,609	17,045	7,564	8,887	5,982	2,905	8,102	5,491	2,611
40-44 years	36,897	23,896	13,001	27,937	18,161	9,776	8,960	5,735	3,225	8,197	5,276	2,921
45-49 years	46,415	29,361	17,054	35,906	22,869	13,037	10,509	6,492	4,017	9,615	5,948	3,667
50-54 years	68,746	42,978	25,768	54,471	34,352	20,119	14,275	8,626	5,649	13,033	7,882	5,151
55-59 years	110,323	69,198	41,125	91,491	57,922	33,569	18,832	11,276	7,556	17,395	10,460	6,935
60-64 years	168,706	103,133	65,573	142,976	88,223	54,753	25,730	14,910	10,820	23,789	13,748	10,041
65-69 years	218,649	130,613	88,036	189,952	114,255	75,697	28,697	16,358	12,339	26,604	15,074	11,530
70-74 years	266,890	152,433	114,457	235,871	135,671	100,200	31,019	16,762	14,257	28,532	15,246	13,286
75-79 years	293,520	154,284	139,236	262,791	138,505	124,286	30,729	15,779	14,950	28,086	14,147	13,939
80-84 years	281,629	128,547	153,082	256,545	116,918	139,627	25,084	11,629	13,455	22,696	10,195	12,501
85 years and over	427,473	142,953	284,520	395,825	131,147	264,678	31,648	11,806	19,842	28,517	10,377	18,140
Not stated	999	533	466	812	420	392	187	113	74	165	104	61
	Rate											
All ages ¹	873.2	940.7	809.3	896.2	954.4	840.7	745.6	862.7	638.8	854.2	987.7	733.9
Under 1 year ²	1,032.1	1,152.7	905.8	870.7	976.6	759.1	1,719.2	1,911.8	1,521.8	1,955.3	2,181.7	1,731.1
1-4 years	52.0	57.9	45.8	46.6	52.2	40.7	75.0	82.3	67.5	83.8	90.9	76.5
5-9 years	23.6	27.5	19.5	21.5	25.3	17.4	32.7	37.1	28.1	34.8	39.0	30.4
10-14 years	28.4	36.1	20.3	27.5	34.7	19.9	32.3	42.2	22.1	34.3	45.0	23.3
15-19 years	87.2	124.3	48.6	87.4	124.2	49.1	86.1	124.5	46.6	90.5	131.8	48.6
20-24 years	116.1	176.5	55.6	109.0	165.6	51.6	151.1	231.2	74.4	162.2	251.0	79.3
25-29 years	120.3	177.8	62.6	106.4	157.6	54.1	193.6	290.1	105.3	218.9	330.9	118.0
30-34 years	144.7	208.7	81.0	124.3	180.6	67.0	255.9	371.9	152.4	304.1	448.0	178.1
35-39 years	178.9	248.8	110.6	153.2	212.3	94.2	333.6	487.1	202.3	397.9	589.8	236.3
40-44 years	257.2	339.9	177.7	225.1	295.6	156.0	462.6	646.6	307.1	560.3	797.0	364.7
45-49 years	389.2	504.8	279.1	349.5	452.0	250.1	635.4	858.7	447.3	750.0	1,034.4	518.7
50-54 years	631.3	816.9	457.9	577.6	746.3	416.9	978.4	1,310.9	705.2	1,126.4	1,524.6	804.8
55-59 years	978.8	1,291.0	695.7	923.9	1,221.5	650.4	1,376.6	1,824.6	1,006.1	1,569.9	2,075.4	1,148.2
60-64 years	1,539.1	2,023.8	1,118.0	1,468.4	1,939.8	1,055.0	2,102.1	2,720.8	1,600.6	2,383.7	3,075.6	1,822.3
65-69 years	2,263.0	2,984.1	1,665.8	2,199.8	2,908.7	1,608.2	2,794.3	3,643.2	2,134.8	3,129.9	4,074.1	2,402.1
70-74 years	3,479.7	4,661.6	2,601.3	3,418.9	4,602.1	2,536.7	4,023.2	5,205.6	3,175.3	4,451.2	5,797.0	3,514.8
75-79 years	5,206.1	7,012.9	4,049.9	5,160.9	6,988.1	3,995.0	5,628.0	7,238.1	4,571.9	6,200.0	8,038.1	5,032.1
80-84 years	8,230.0	10,838.7	6,846.2	8,183.3	10,825.7	6,794.5	8,770.6	10,970.8	7,433.7	9,496.2	11,854.7	8,170.6
85 years and over	15,398.9	18,187.4	14,297.5	15,639.1	18,576.1	14,502.9	12,917.6	14,757.5	12,025.5	13,515.2	15,488.1	12,510.3

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

²Death 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 20 for infant mortality rates, and Technical notes for further discussion of the difference.

Table 3. Abridged life table for the total population: United States, 1986

[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 two 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 (2)	Number living at beginning of age interval (3)	Number dying during age interval (4)	In the age interval (5)	In this and all subsequent age intervals (6)	Average number of years of life remaining at beginning of age interval (7)
	nq_x	l_x	$n d_x$	nL_x	T_x	e_x
0-1.....	0.0104	100,000	1,036	99,109	7,480,776	74.8
1-5.....	0.0020	98,964	202	395,383	7,381,667	74.6
5-10.....	0.0012	98,762	117	493,491	6,986,284	70.7
10-15.....	0.0014	98,645	138	492,957	6,492,793	65.8
15-20.....	0.0043	98,507	426	491,569	5,999,836	60.9
20-25.....	0.0058	98,081	569	489,011	5,508,267	56.2
25-30.....	0.0060	97,512	585	486,096	5,019,256	51.5
30-35.....	0.0072	96,927	700	482,926	4,533,160	46.8
35-40.....	0.0090	96,227	864	479,097	4,050,234	42.1
40-45.....	0.0128	95,363	1,224	473,973	3,571,137	37.4
45-50.....	0.0193	94,139	1,814	466,492	3,097,164	32.9
50-55.....	0.0311	92,325	2,867	454,908	2,630,672	28.5
55-60.....	0.0479	89,458	4,285	437,193	2,175,764	24.3
60-65.....	0.0744	85,173	6,340	410,874	1,738,571	20.4
65-70.....	0.1076	78,833	8,480	373,881	1,327,697	16.8
70-75.....	0.1611	70,353	11,337	324,408	953,816	13.6
75-80.....	0.2320	59,016	13,692	261,685	629,408	10.7
80-85.....	0.3432	45,324	15,553	187,948	367,723	8.1
85 and over.....	1.0000	29,771	29,771	179,775	179,775	6.0

Table 4. Life expectancy at birth by race and sex: United States, 1940, 1950, 1960, 1970-1986

Year	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
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 ¹	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	---	---	---

¹Deaths based on a 50-percent sample.

Table 5. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1979, 1985, and 1986

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Year	Age												Age-adjusted rate ³
		All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
All causes	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
	1985	873.9	1,067.8	51.4	26.3	95.9	123.4	207.2	516.3	1,282.7	2,838.6	6,445.1	15,480.3	546.1
	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	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
	1985	323.0	24.5	2.1	0.9	2.8	8.2	38.0	152.9	439.1	1,080.6	2,712.6	7,275.0	180.5
	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	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
	1985	2.8	0.2	0.0	0.0	0.2	0.4	0.8	2.3	5.3	11.2	20.6	24.5	1.9
	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	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
	1985	8.7	0.0	-	0.0	0.1	0.3	1.6	6.1	14.6	29.9	68.7	163.5	5.3
	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	1986	1.0	-	-	-	0.0	0.1	0.1	0.3	1.0	3.1	9.0	29.0	0.5
	1985	1.2	-	-	-	0.0	0.0	0.1	0.4	1.1	3.2	11.3	32.4	0.6
	1979	1.6	-	-	0.0	0.0	0.0	0.2	0.4	1.4	5.1	16.8	50.9	0.9
Ischemic heart disease..... 410-414	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
	1985	224.8	0.6	0.1	0.0	0.3	3.0	23.3	104.7	309.7	776.3	1,919.6	4,932.9	125.5
	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	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
	1985	114.9	0.4	0.0	0.0	0.2	1.9	14.5	65.4	192.0	455.1	977.2	1,750.2	69.3
	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	1986	1.6	-	-	0.0	0.0	0.1	0.4	1.4	3.4	5.9	10.4	23.3	1.0
	1985	1.7	-	0.0	-	0.0	0.1	0.3	1.7	3.6	6.1	10.9	24.5	1.1
	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	1986	0.4	0.0	-	-	0.0	0.0	0.1	0.1	0.5	1.5	3.5	8.7	0.2
	1985	0.4	-	0.0	-	-	0.0	0.0	0.2	0.5	1.3	3.8	8.2	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	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
	1985	107.9	0.2	0.0	0.0	0.1	1.1	8.5	37.5	113.6	313.9	927.6	3,150.0	54.9
	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	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
	1985	4.0	0.6	0.0	0.0	0.1	0.3	0.6	1.5	4.0	12.2	38.1	88.7	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	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
	1985	81.5	23.1	2.0	0.8	2.1	4.2	11.6	37.9	104.4	247.8	654.3	2,033.0	45.1
	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														
	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
	1985	193.3	3.0	3.8	3.5	5.4	13.1	45.7	169.1	450.5	838.3	1,281.0	1,591.5	133.6
	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														
	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
	1985	3.5	0.0	0.0	0.0	0.1	0.2	1.0	4.3	10.3	15.2	16.5	20.5	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														
	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
	1985	48.8	0.2	0.2	0.1	0.4	1.6	7.4	33.4	100.4	211.0	373.4	537.9	31.6
	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														
	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
	1985	53.3	0.1	0.0	0.0	0.1	0.8	8.1	52.8	158.4	268.0	294.5	202.0	38.8
	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
Malignant neoplasm of breast. 174-175														
	1986	16.9	-	-	0.0	0.0	1.5	9.3	23.4	43.1	61.9	85.9	129.9	12.6
	1985	16.9	0.1	-	-	0.1	1.5	8.9	24.2	44.6	60.8	87.2	126.8	12.7
	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														
	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
	1985	20.8	-	0.0	0.0	0.4	1.4	3.9	12.0	34.1	87.5	178.6	247.5	13.0
	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														
	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
	1985	7.9	0.3	0.1	0.1	0.1	0.2	1.2	5.2	15.0	33.5	62.7	96.7	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														
	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
	1985	24.3	1.4	2.0	1.5	2.1	4.1	9.3	24.1	55.1	93.1	142.9	198.7	17.5
	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														
	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
	1985	7.3	0.8	1.3	1.5	1.3	1.5	2.5	5.0	11.7	25.7	50.2	77.3	5.0
	1979	7.1	1.0	1.7	1.9	1.7	1.7	2.7	5.5	11.3	25.4	50.3	76.1	5.3
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203														
	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
	1985	10.5	0.1	0.2	0.3	1.0	1.8	3.4	8.1	21.0	43.5	74.8	84.2	7.3
	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														
	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
	1985	64.1	3.6	0.3	0.2	0.8	2.1	7.2	21.1	54.3	171.3	605.8	1,837.5	32.3
	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														
	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
	1985	39.1	23.7	20.0	12.5	48.4	37.8	31.6	31.3	36.6	50.5	107.7	254.3	34.7
	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														
	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
	1985	19.2	4.8	7.1	6.8	36.1	22.8	17.1	15.2	15.5	17.7	27.6	26.1	18.8
	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

See footnotes at end of table.

Table 5. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1979, 1985, and 1986—Con.

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Year	Age											Age-adjusted rate ³	
		All ages ¹	Under 1 year ²	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years		85 years and over
Accidents and adverse effects—Con.														
All other accidents and adverse effects E800-E807, E826-E949	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
	1985	19.9	19.0	12.9	5.7	12.3	15.0	14.5	16.1	21.1	32.8	80.1	228.3	16.0
	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														
	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
	1985	31.3	1.4	0.3	0.3	0.5	0.6	1.6	10.2	47.5	147.9	291.6	360.0	18.7
	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														
	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
	1985	28.3	18.8	1.5	0.4	0.6	1.5	3.3	7.2	18.5	57.8	241.3	1,023.5	13.4
	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														
	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
	1985	15.5	0.1	0.1	0.1	0.3	1.3	3.7	8.8	26.1	59.7	128.1	214.9	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														
	1986	12.8	...	...	0.8	13.1	15.7	15.2	16.4	17.0	19.7	25.2	20.8	11.9
	1985	12.3	...	...	0.8	12.9	15.2	14.6	15.6	16.7	18.5	24.1	19.1	11.5
	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														
	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
	1985	11.2	0.3	0.1	0.0	0.2	3.0	9.8	22.0	33.8	37.5	32.6	19.8	9.6
	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														
	1986	9.4	-	-	-	0.0	0.0	0.1	0.8	4.0	16.0	74.8	432.6	3.7
	1985	10.0	-	-	-	0.0	0.0	0.2	0.8	4.0	17.0	82.3	465.8	4.0
	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														
	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
	1985	8.9	7.4	0.2	0.1	0.2	0.6	1.4	3.2	9.7	27.7	78.1	213.7	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														
	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
	1985	8.3	5.3	2.4	1.2	12.1	14.7	11.3	8.1	5.7	4.3	4.3	4.1	8.3
	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
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
	1985	7.2	8.1	0.6	0.1	0.2	0.6	1.2	3.0	8.8	21.5	61.5	159.6	4.1
	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
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	(⁴)
	1985	8.1	508.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	(⁴)
	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	(⁴)
Congenital anomalies 740-759														
	1986	5.2	218.8	6.1	1.3	1.3	0.9	1.2	1.4	2.0	2.8	4.0	5.9	(⁴)
	1985	5.4	228.4	5.9	1.4	1.2	1.0	1.1	1.4	1.9	2.5	3.9	5.6	(⁴)
	1979	6.0	260.4	8.1	1.6	1.4	1.2	1.4	1.8	2.1	2.7	3.4	5.2	(⁴)

¹Figures for age not stated included in All ages but not distributed among age groups.
²Death 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 20 for infant mortality rates, and Technical notes for further discussion of the difference.
³For method of computation, see Technical notes.
⁴Because deaths from these causes occur mainly 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, 1986

[Rates per 100,000 population in specified group]

Rank order	Cause of death, race, and sex (Ninth Revision International Classification of Diseases, 1975)	Number	Rate	Rank order	Cause of death, race, and sex (Ninth Revision International Classification of Diseases, 1975)	Number	Rate
All races, both sexes				White, female—Con.			
...	All causes.....	2,105,361	873.2	7	Diabetes mellitus..... 250	17,496	16.7
1	Diseases of heart..... 390-398,402,404-429	765,490	317.5	8	Atherosclerosis..... 440	13,091	12.5
2	Malignant neoplasms, including neoplasms of lymphatic and hemato-poietic tissues..... 140-208	469,376	194.7	9	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	8,692	8.3
3	Cerebrovascular diseases.... 430-438	149,643	62.1	10	Septicemia..... 038	8,194	7.8
4	Accidents and adverse effects..... E800-E949	95,277	39.5	...	All other causes..... Residual	138,384	132.4
...	Motor vehicle accidents..... E810-E825	47,865	19.9	All other, male			
...	All other accidents and adverse effects.... E800-E807,E826-E949	47,412	19.7	...	All causes.....	151,451	862.7
5	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	76,559	31.8	1	Diseases of heart..... 390-398,402,404-429	42,945	244.6
6	Pneumonia and influenza.... 480-487	69,812	29.0	2	Malignant neoplasms, including neoplasms of lymphatic and hemato-poietic tissues..... 140-208	32,178	183.3
7	Diabetes mellitus..... 250	37,184	15.4	3	Accidents and adverse effects..... E800-E949	10,706	61.0
8	Suicide..... E950-E959	30,904	12.8	...	Motor vehicle accidents..... E810-E825	4,925	28.1
9	Chronic liver disease and cirrhosis... 571	26,159	10.9	...	All other accidents and adverse effects.... E800-E807,E826-E949	5,781	32.9
10	Atherosclerosis..... 440	22,706	9.4	4	Cerebrovascular diseases.... 430-438	8,799	50.1
...	All other causes..... Residual	362,251	150.3	5	Homicide and legal intervention..... E960-E978	8,028	45.7
White, male				6	Pneumonia and influenza.... 480-487	4,312	24.6
...	All causes.....	952,554	954.4	7	Certain conditions originating in the perinatal period..... 760-779	3,748	21.4
1	Diseases of heart..... 390-398,402,404-429	347,967	348.6	8	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	3,717	21.2
2	Malignant neoplasms, including neoplasms of lymphatic and hemato-poietic tissues..... 140-208	218,381	218.8	9	Chronic liver disease and cirrhosis..... 571	2,698	15.4
3	Accidents and adverse effects..... E800-E949	54,864	55.0	10	Diabetes mellitus..... 250	2,581	14.7
...	Motor vehicle accidents..... E810-E825	29,163	29.2	...	All other causes..... Residual	31,739	180.8
...	All other accidents and adverse effects.... E800-E807,E826-E949	25,701	25.7	All other, female			
4	Cerebrovascular diseases.... 430-438	50,365	50.5	...	All causes.....	122,827	638.8
5	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	43,341	43.4	1	Diseases of heart..... 390-398,402,404-429	41,182	214.2
6	Pneumonia and influenza.... 480-487	29,891	29.9	2	Malignant neoplasms, including neoplasms of lymphatic and hemato-poietic tissues..... 140-208	24,846	129.2
7	Suicide..... E950-E959	22,270	22.3	3	Cerebrovascular diseases.... 430-438	10,838	56.4
8	Chronic liver disease and cirrhosis... 571	14,099	14.1	4	Diabetes mellitus..... 250	4,319	22.5
9	Diabetes mellitus..... 250	12,788	12.8	5	Accidents and adverse effects..... E800-E949	4,256	22.1
10	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	8,754	8.8	...	Motor vehicle accidents..... E810-E825	1,751	9.1
...	All other causes..... Residual	149,834	150.1	...	All other accidents and adverse effects.... E800-E807,E826-E949	2,505	13.0
White, female				6	Pneumonia and influenza.... 480-487	3,177	16.5
...	All causes.....	878,529	840.7	7	Certain conditions originating in the perinatal period..... 760-779	2,829	14.7
1	Diseases of heart..... 390-398,402,404-429	333,396	319.0	8	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	2,212	11.5
2	Malignant neoplasms, including neoplasms of lymphatic and hemato-poietic tissues..... 140-208	193,971	185.6	9	Homicide and legal intervention..... E960-E978	2,013	10.5
3	Cerebrovascular diseases.... 430-438	79,641	76.2	10	Septicemia..... 038	1,815	9.4
4	Pneumonia and influenza.... 480-487	32,432	31.0	...	All other causes..... Residual	25,340	131.8
5	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	27,781	26.6				
6	Accidents and adverse effects..... E800-E949	25,451	24.4				
...	Motor vehicle accidents..... E810-E825	12,026	11.5				
...	All other accidents and adverse effects.... E800-E807,E826-E949	13,425	12.8				

Table 6. Deaths and death rates for the 10 leading causes of death in specified race-sex groups: United States, 1986—Con.

[Rates per 100,000 population in specified group]

<i>Rank order</i>	<i>Cause of death, race, and sex (Ninth Revision International Classification of Diseases, 1975)</i>	<i>Number</i>	<i>Rate</i>	<i>Rank order</i>	<i>Cause of death, race, and sex (Ninth Revision International Classification of Diseases, 1975)</i>	<i>Number</i>	<i>Rate</i>
Black, male				Black, female			
...	All causes.....	137,214	987.7	...	All causes.....	113,112	733.9
1	Diseases of heart..... 390-398,402,404-429	39,076	281.3	1	Diseases of heart..... 390-398,402,404-429	38,650	250.8
2	Malignant neoplasms, including neoplasms of lymphatic and hemopoietic tissues..... 140-208	29,363	211.4	2	Malignant neoplasms, including neoplasms of lymphatic and hemopoietic tissues..... 140-208	22,616	146.7
3	Accidents and adverse effects..... E800-E949	9,035	65.0	3	Cerebrovascular diseases.... 430-438	10,014	65.0
...	Motor vehicle accidents..... E810-E825	3,974	28.6	4	Diabetes mellitus..... 250	4,004	26.0
...	All other accidents and adverse effects.... E800-E807,E826-E949	5,061	36.4	5	Accidents and adverse effects..... E800-E949	3,550	23.0
4	Cerebrovascular diseases.... 430-438	7,938	57.1	...	Motor vehicle accidents..... E810-E825	1,313	8.5
5	Homicide and legal intervention..... E960-E978	7,634	55.0	...	All other accidents and adverse effects.... E800-E807,E826-E949	2,237	14.5
6	Pneumonia and influenza.... 480-487	3,836	27.6	6	Pneumonia and influenza.... 480-487	2,864	18.6
7	Certain conditions originating in the perinatal period..... 760-779	3,501	25.2	7	Certain conditions originating in the perinatal period..... 760-779	2,648	17.2
8	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	3,302	23.8	8	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	2,057	13.3
9	Chronic liver disease and cirrhosis... 571	2,404	17.3	9	Homicide and legal intervention..... E960-E978	1,861	12.1
10	Diabetes mellitus..... 250	2,295	16.5	10	Septicemia..... 038	1,720	11.2
...	All other causes..... Residual	28,830	207.5	...	All other causes..... Residual	23,128	150.1

Table 7. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, 1986

[Rates per 100,000 population in specified group]

Rank order	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number	Rate	Rank order	Cause of death and age (Ninth Revision International Classification of Diseases, 1975)	Number	Rate
1-4 years				15-24 years—Con.			
...	All causes	7,480	52.0	4	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.... 140-208	2,115	5.4
1	Accidents and adverse effects	2,934	20.4	5	Diseases of heart	1,096	2.8
...	Motor vehicle accidents.....	1,005	7.0	6	Congenital anomalies	511	1.3
...	All other accidents and adverse effects ...	1,929	13.4	7	Pneumonia and influenza... 480-487	276	0.7
2	Congenital anomalies	879	6.1	8	Cerebrovascular diseases... 430-438	263	0.7
3	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.... 140-208	569	4.0	9	Chronic obstructive pulmonary diseases and allied conditions	191	0.5
4	Homicide and legal intervention.....	382	2.7	10	Diabetes mellitus	140	0.4
5	Diseases of heart	366	2.5	...	All other causes	4,720	12.1
6	Pneumonia and influenza... 480-487	199	1.4	25-44 years			
7	Meningitis	144	1.0	...	All causes	126,923	167.3
8	Certain conditions originating in the perinatal period.....	132	0.9	1	Accidents and adverse effects	27,201	35.9
9	Septicemia	90	0.6	...	Motor vehicle accidents.....	15,844	20.9
10	Meningococcal infection.....	64	0.4	...	All other accidents and adverse effects ...	11,357	15.0
...	All other causes	1,721	12.0	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.... 140-208	20,595	27.2
5-14 years				3	Diseases of heart	16,106	21.2
...	All causes	8,788	26.0	4	Suicide.....	11,724	15.5
1	Accidents and adverse effects	4,226	12.5	5	Homicide and legal intervention.....	10,687	14.1
...	Motor vehicle accidents.....	2,350	6.9	6	Chronic liver disease and cirrhosis	4,370	5.8
...	All other accidents and adverse effects ...	1,876	5.5	7	Cerebrovascular diseases... 430-438	3,311	4.4
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.... 140-208	1,165	3.4	8	Pneumonia and influenza... 480-487	1,936	2.6
3	Congenital anomalies	453	1.3	9	Diabetes mellitus	1,808	2.4
4	Homicide and legal intervention.....	379	1.1	10	Chronic obstructive pulmonary diseases and allied conditions	789	1.0
5	Diseases of heart	310	0.9	...	All other causes	28,396	37.4
6	Suicide.....	255	0.8	45-64 years			
7	Pneumonia and influenza... 480-487	147	0.4	...	All causes	394,190	875.1
8	Chronic obstructive pulmonary diseases and allied conditions	106	0.3	1	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.... 140-208	136,605	303.2
9	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature... 210-239	90	0.3	2	Diseases of heart	127,294	282.6
10	Cerebrovascular diseases... 430-438	73	0.2	3	Cerebrovascular diseases... 430-438	16,428	36.5
...	All other causes	1,584	4.7	4	Accidents and adverse effects	14,733	32.7
15-24 years				...	Motor vehicle accidents	6,799	15.1
...	All causes	39,929	102.3	...	All other accidents and adverse effects... ..	7,934	17.6
1	Accidents and adverse effects	19,975	51.2	5	Chronic obstructive pulmonary diseases and allied conditions	12,720	28.2
...	Motor vehicle accidents.....	15,227	39.0	6	Chronic liver disease and cirrhosis	11,795	26.2
...	All other accidents and adverse effects ...	4,748	12.2	7	Diabetes mellitus	7,938	17.6
2	Homicide and legal intervention.....	5,522	14.2	8	Suicide.....	7,518	16.7
3	Suicide.....	5,120	13.1	9	Pneumonia and influenza... 480-487	5,744	12.8
				10	Homicide and legal intervention.....	3,090	6.9
				...	All other causes	50,325	111.7

Table 7. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, 1986—Con.

[Rates per 100,000 population in specified group]

<i>Rank order</i>	<i>Cause of death and age</i> (Ninth Revision International Classification of Diseases, 1975)	<i>Number</i>	<i>Rate</i>	<i>Rank order</i>	<i>Cause of death and age</i> (Ninth Revision International Classification of Diseases, 1975)	<i>Number</i>	<i>Rate</i>
65 years and over				65 years and over—Con.			
...	All causes	1,488,161	5,102.0	7	Accidents and adverse effects	25,134	86.2
1	Diseases of heart	619,009	2,122.2	...	Motor vehicle accidents	6,410	22.0
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	308,184	1,056.6	...	All other accidents and adverse effects ...	18,724	64.2
3	Cerebrovascular diseases ...	129,357	443.5	8	Atherosclerosis	21,555	73.9
4	Chronic obstructive pulmonary diseases and allied conditions	62,649	214.8	9	Nephritis, nephrotic syndrome, and nephrosis	17,851	61.2
5	Pneumonia and influenza ...	60,801	208.5	10	Septicemia	14,821	50.8
6	Diabetes mellitus	27,256	93.4	...	All other causes	201,544	691.0

Table 8. Deaths from 72 selected causes by age: United States, 1986

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
All causes.....	2,105,361	38,891	7,480	8,788	39,929	56,530	70,393	115,161	279,029	485,539	575,149	427,473	999
Shigellosis and amebiasis . . . 004,006	12	-	-	1	-	3	3	1	-	1	3	-	-
Certain other intestinal infections 007-009	347	114	9	3	3	17	19	16	19	33	43	70	1
Tuberculosis 010-018	1,782	1	3	4	18	107	184	183	279	373	416	211	3
Tuberculosis of respiratory system 010-012	1,407	-	1	1	12	60	135	142	226	303	343	181	3
Other tuberculosis 013-018	375	1	2	3	6	47	49	41	53	70	73	30	-
Whooping cough 033	6	5	-	-	-	-	-	-	-	1	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas 034-035	12	-	-	1	2	-	-	3	2	-	1	3	-
Meningococcal infection 036	286	62	64	20	38	24	16	12	17	16	12	5	-
Septicemia 038	18,795	302	90	44	87	255	462	744	1,984	3,915	5,857	5,049	6
Acute poliomyelitis 045	-	-	-	-	-	-	-	-	-	-	-	-	-
Measles 055	2	-	-	-	1	-	-	-	1	-	-	-	-
Viral hepatitis 070	1,006	10	8	10	45	107	119	110	174	232	151	40	-
Syphilis 090-097	80	5	-	-	-	2	4	3	5	17	31	13	-
All other infectious and parasitic diseases 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	9,295	219	107	96	292	1,702	1,714	984	1,136	1,346	1,086	612	1
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	469,376	97	569	1,165	2,115	5,604	14,991	37,800	98,805	146,803	116,632	44,749	46
Malignant neoplasms of lip, oral cavity, and pharynx 140-149	8,292	1	2	6	25	68	293	969	2,282	2,528	1,484	634	-
Malignant neoplasms of digestive organs and peritoneum 150-159	116,508	5	20	14	125	644	2,412	7,424	21,796	36,281	32,954	14,820	13
Malignant neoplasms of respiratory and intrathoracic organs 160-165	130,450	4	2	3	52	317	2,597	11,802	35,080	47,085	27,530	5,966	12
Malignant neoplasm of breast 174-175	40,789	-	-	1	14	654	3,073	5,350	9,577	10,722	7,787	3,606	5
Malignant neoplasms of genital organs 179-187	51,247	-	6	3	134	597	1,309	2,686	7,630	15,565	16,144	7,168	5
Malignant neoplasms of urinary organs 188-189	19,113	4	20	44	25	88	336	1,183	3,365	5,639	5,800	2,607	2
Malignant neoplasms of all other and unspecified sites 170-173,190-199	59,446	55	296	529	790	1,744	3,028	5,394	12,099	16,661	13,379	5,463	8
Leukemia 204-208	17,365	25	194	448	574	669	810	1,101	2,532	4,373	4,559	2,079	1
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203	26,166	3	29	117	376	823	1,133	1,891	4,444	7,949	6,995	2,406	-
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	6,730	78	56	90	132	203	262	439	918	1,541	1,963	1,046	2
Diabetes mellitus 250	37,184	2	9	25	140	634	1,174	2,158	5,780	10,269	11,048	5,939	6
Nutritional deficiencies 260-269	2,862	24	-	3	6	17	34	41	136	397	826	1,377	1

Table 8. Deaths from 72 selected causes by age: United States, 1986—Con.

<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>
Anemias 280-285	3,708	21	61	60	114	176	118	116	244	575	1,123	1,100	-
Meningitis 320-322	1,160	220	144	27	25	62	62	69	154	175	152	70	-
Major cardiovascular diseases 390-448	968,240	1,116	415	402	1,452	4,872	15,254	38,853	110,619	220,605	307,894	266,339	419
Diseases of heart 390-398,402,404-429	765,490	982	366	310	1,096	3,691	12,415	32,982	94,312	180,772	238,956	199,281	327
Rheumatic fever and rheumatic heart disease 390-398	6,441	5	2	6	52	138	248	477	1,120	1,848	1,829	714	2
Hypertensive heart disease 402	20,509	1	2	-	19	119	528	1,349	3,077	4,962	5,998	4,445	9
Hypertensive heart and renal disease 404	2,496	-	-	-	2	26	41	64	212	530	817	804	-
Ischemic heart disease 410-414	520,729	23	8	16	119	1,272	7,418	21,886	65,036	127,111	165,799	131,821	220
Acute myocardial infarction 410	261,002	16	4	10	62	754	4,479	13,605	39,139	72,757	83,511	46,607	58
Other acute and subacute forms of ischemic heart disease 411	3,856	-	-	1	7	27	140	312	759	1,016	945	647	2
Angina pectoris 413	990	1	-	-	1	2	17	34	110	265	319	241	-
Old myocardial infarction and other forms of chronic ischemic heart disease 412,414	254,881	6	4	5	49	489	2,782	7,935	25,028	53,073	81,024	84,326	160
Other diseases of endocardium 424	10,130	13	7	10	43	118	192	320	935	2,198	3,618	2,676	-
All other forms of heart disease 415-423,425-429	205,185	940	347	278	861	2,018	3,988	8,886	23,932	44,123	60,895	58,821	96
Hypertension with or without renal disease 401,403	7,984	5	1	1	7	54	123	359	878	1,817	2,627	2,108	4
Cerebrovascular diseases 430-438	149,643	109	37	73	263	960	2,351	4,648	11,780	28,444	51,982	48,931	65
Intracerebral and other intracranial hemorrhage 431-432	20,479	52	10	32	106	324	892	1,655	3,085	5,135	6,014	3,161	13
Cerebral thrombosis and unspecified occlusion of cerebral arteries 434.0,434.9	23,467	13	6	8	18	55	135	417	1,551	4,340	8,407	8,506	11
Cerebral embolism 434.1	784	1	1	2	3	5	9	18	66	195	297	187	-
All other and late effects of cerebrovascular diseases 430,433,435-438	104,913	43	20	31	136	576	1,315	2,558	7,078	18,774	37,264	37,077	41
Atherosclerosis 440	22,706	-	-	-	1	10	40	190	889	2,765	6,781	12,009	21
Other diseases of arteries, arterioles, and capillaries 441-448	22,417	20	11	18	85	157	325	674	2,760	6,807	7,548	4,010	2
Acute bronchitis and bronchiolitis 466	588	59	14	5	6	4	10	14	36	98	176	165	1
Pneumonia and influenza 480-487	69,812	663	199	147	276	736	1,200	1,600	4,144	10,154	21,995	28,652	46
Pneumonia 480-486	67,974	656	191	133	267	724	1,177	1,564	4,087	9,945	21,451	27,733	46
Influenza 487	1,838	7	8	14	9	12	23	36	57	209	544	919	-
Chronic obstructive pulmonary diseases and allied conditions 490-496	76,559	60	34	106	191	247	542	2,235	10,485	25,866	26,708	10,075	10
Bronchitis, chronic and unspecified 490-491	3,750	40	12	5	9	12	33	98	422	1,046	1,281	790	2
Emphysema 492	14,471	4	-	1	2	11	63	486	2,274	5,351	4,910	1,368	1

Asthma 493	3,955	13	17	92	166	197	251	356	688	982	843	350	-
Other chronic obstructive pulmonary diseases and allied conditions 494-496	54,383	3	5	8	14	27	195	1,295	7,101	18,487	19,674	7,567	7
Ulcer of stomach and duodenum 531-533	6,477	9	1	3	15	57	142	248	736	1,423	2,130	1,710	3
Appendicitis 540-543	512	6	6	17	16	15	16	24	87	126	130	69	-
Hernia of abdominal cavity and intestinal obstruction without mention of hernia 550-553,560	5,445	104	31	25	27	39	72	135	402	924	1,812	1,872	2
Chronic liver disease and cirrhosis 571	26,159	20	10	4	69	1,182	3,188	4,632	7,163	6,455	2,850	578	8
Cholelithiasis and other disorders of gallbladder 574-575	2,956	4	1	2	7	16	33	71	225	615	1,060	920	2
Nephritis, nephrotic syndrome, and nephrosis 580-589	21,767	251	28	33	79	241	435	732	2,115	4,649	7,196	6,006	2
Acute glomerulonephritis and nephrotic syndrome 580-581	293	8	5	1	6	8	12	5	36	59	95	58	-
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified 582-583,587	1,505	2	2	8	12	32	47	56	164	349	481	352	-
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause 584-586,588-589	19,969	241	21	24	61	201	376	671	1,915	4,241	6,620	5,596	2
Infections of kidney 590	1,870	4	3	1	4	18	28	56	125	298	604	727	2
Hyperplasia of prostate 600	508	-	-	-	-	-	-	-	24	83	175	225	1
Complications of pregnancy, childbirth, and the puerperium 630-676	272	...	...	-	91	125	55	1	...	...	...	...	...
Pregnancy with abortive outcome 630-638	51	...	...	-	20	18	13	-	...	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium 640-676	221	...	...	-	71	107	42	1	...	...	...	...	...
Congenital anomalies 740-759	12,638	8,244	879	453	511	398	383	315	446	479	365	163	2
Certain conditions originating in the perinatal period 760-779	18,391	18,226	132	13	6	7	1	2	-	1	1	1	1
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome 767-769	4,693	4,652	28	8	2	2	-	1	-	-	-	-	-
Other conditions originating in the perinatal period 760-766,770-779	13,698	13,574	104	5	4	5	1	1	-	1	1	1	1
Symptoms, signs, and ill-defined conditions 780-799	31,390	6,038	317	146	870	1,845	1,763	1,746	3,105	4,700	5,505	5,266	89
All other diseases Residual	158,102	1,689	921	973	2,209	6,430	8,401	8,841	16,667	30,517	44,744	36,658	52
Accidents and adverse effects E800-E949	95,277	909	2,934	4,226	19,975	16,906	10,295	7,005	7,728	8,499	9,633	7,002	165
Motor vehicle accidents E810-E825	47,865	183	1,005	2,350	15,227	10,358	5,486	3,442	3,357	3,096	2,612	702	47
All other accidents and adverse effects . . . E800-E807,E826-E949	47,412	726	1,929	1,876	4,748	6,548	4,809	3,563	4,371	5,403	7,021	6,300	118
Suicide E950-E959	30,904	...	...	255	5,120	6,711	5,013	3,736	3,782	3,414	2,283	578	12
Homicide and legal intervention E960-E978	21,731	278	382	379	5,522	6,904	3,783	1,895	1,195	758	417	130	88
All other external causes E980-E999	3,120	51	53	49	465	864	617	341	291	181	127	53	28

Table 9. Death rates for 72 selected causes by age: United States, 1986

[Rates per 100,000 population in specified group]

<i>Cause of death (Ninth Revision International Classification of Diseases, 1975)</i>	<i>All ages¹</i>	<i>Under 1 year²</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>
All causes	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
Shigellosis and amebiasis 004,006	0.0	-	-	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-
Certain other intestinal infections 007-009	0.1	3.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.5	2.5
Tuberculosis 010-018	0.7	0.0	0.0	0.0	0.0	0.3	0.6	0.8	1.3	2.2	4.6	7.6
Tuberculosis of respiratory system 010-012	0.6	-	0.0	0.0	0.0	0.1	0.4	0.6	1.0	1.7	3.8	6.5
Other tuberculosis 013-018	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.4	0.8	1.1
Whooping cough 033	0.0	0.1	-	-	-	-	-	-	-	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	1.6	0.4	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2
Septicemia 038	7.8	8.0	0.6	0.1	0.2	0.6	1.4	3.3	8.9	22.6	64.6	181.9
Acute poliomyelitis 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles 055	0.0	-	-	-	0.0	-	-	-	0.0	-	-	-
Viral hepatitis 070	0.4	0.3	0.1	0.0	0.1	0.3	0.4	0.5	0.8	1.3	1.7	1.4
Syphilis 090-097	0.0	0.1	-	-	-	0.0	0.0	0.0	0.0	0.1	0.3	0.5
All other infectious and parasitic diseases 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	3.9	5.8	0.7	0.3	0.7	4.0	5.2	4.3	5.1	7.8	12.0	22.0
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	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
Malignant neoplasms of lip, oral cavity, and pharynx 140-149	3.4	0.0	0.0	0.0	0.1	0.2	0.9	4.2	10.3	14.6	16.4	22.8
Malignant neoplasms of digestive organs and peritoneum 150-159	48.3	0.1	0.1	0.0	0.3	1.5	7.3	32.5	98.0	209.3	363.7	533.9
Malignant neoplasms of respiratory and intrathoracic organs 160-165	54.1	0.1	0.0	0.0	0.1	0.7	7.9	51.7	157.8	271.7	303.9	214.9
Malignant neoplasm of breast 174-175	16.9	-	-	0.0	0.0	1.5	9.3	23.4	43.1	61.9	85.9	129.9
Malignant neoplasms of genital organs 179-187	21.3	-	0.0	0.0	0.3	1.4	4.0	11.8	34.3	89.8	178.2	258.2
Malignant neoplasms of urinary organs 188-189	7.9	0.1	0.1	0.1	0.1	0.2	1.0	5.2	15.1	32.5	64.0	93.9
Malignant neoplasms of all other and unspecified sites 170-173,190-199	24.7	1.5	2.1	1.6	2.0	4.1	9.2	23.6	54.4	96.1	147.7	196.8
Leukemia 204-208	7.2	0.7	1.3	1.3	1.5	1.6	2.4	4.8	11.4	25.2	50.3	74.9
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203	10.9	0.1	0.2	0.3	1.0	1.9	3.4	8.3	20.0	45.9	77.2	86.7
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	2.8	2.1	0.4	0.3	0.3	0.5	0.8	1.9	4.1	8.9	21.7	37.7
Diabetes mellitus 250	15.4	0.1	0.1	0.1	0.4	1.5	3.6	9.5	26.0	59.2	121.9	213.9
Nutritional deficiencies 260-269	1.2	0.6	-	0.0	0.0	0.0	0.1	0.2	0.6	2.3	9.1	49.6
Anemias 280-285	1.5	0.6	0.4	0.2	0.3	0.4	0.4	0.5	1.1	3.3	12.4	39.6
Meningitis 320-322	0.5	5.8	1.0	0.1	0.1	0.1	0.2	0.3	0.7	1.0	1.7	2.5
Major cardiovascular diseases 390-448	401.6	29.6	2.9	1.2	3.7	11.4	46.1	170.3	497.6	1,272.8	3,398.4	9,594.3
Diseases of heart 390-398,402,404-429	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
Rheumatic fever and rheumatic heart disease 390-398	2.7	0.1	0.0	0.0	0.1	0.3	0.7	2.1	5.0	10.7	20.2	25.7
Hypertensive heart disease 402	8.5	0.0	0.0	-	0.0	0.3	1.6	5.9	13.8	28.6	66.2	160.1
Hypertensive heart and renal disease 404	1.0	-	-	-	0.0	0.1	0.1	0.3	1.0	3.1	9.0	29.0
Ischemic heart disease 410-414	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
Acute myocardial infarction 410	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
Other acute and subacute forms of ischemic heart disease 411	1.6	-	-	0.0	0.0	0.1	0.4	1.4	3.4	5.9	10.4	23.3

Angina pectoris	413	0.4	0.0	-	-	0.0	0.0	0.1	0.1	0.5	1.5	3.5	8.7
Old myocardial infarction and other forms of chronic ischemic heart disease	412,414	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
Other diseases of endocardium	424	4.2	0.3	0.0	0.0	0.1	0.3	0.6	1.4	4.2	12.7	39.9	96.4
All other forms of heart disease	415-423,425-429	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
Hypertension with or without renal disease	401,403	3.3	0.1	0.0	0.0	0.0	0.1	0.4	1.6	3.9	10.5	29.0	75.9
Cerebrovascular diseases	430-438	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
Intracerebral and other intracranial hemorrhage	431-432	8.5	1.4	0.1	0.1	0.3	0.8	2.7	7.3	13.9	29.6	66.4	113.9
Cerebral thrombosis and unspecified occlusion of cerebral arteries	434.0,434.9	9.7	0.3	0.0	0.0	0.0	0.1	0.4	1.8	7.0	25.0	92.8	306.4
Cerebral embolism	434.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	1.1	3.3	6.7
All other and late effects of cerebrovascular diseases	430,433,435-438	43.5	1.1	0.1	0.1	0.3	1.3	4.0	11.2	31.8	108.3	411.3	1,335.6
Atherosclerosis	440	9.4	-	-	-	0.0	0.0	0.1	0.8	4.0	16.0	74.8	432.6
Other diseases of arteries, arterioles, and capillaries	441-448	9.3	0.5	0.1	0.1	0.2	0.4	1.0	3.0	12.4	39.3	83.3	144.5
Acute bronchitis and bronchiolitis	466	0.2	1.6	0.1	0.0	0.0	0.0	0.1	0.2	0.6	1.9	5.9	5.9
Pneumonia and influenza	480-487	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
Pneumonia	480-486	28.2	17.4	1.3	0.4	0.7	1.7	3.6	6.9	18.4	57.4	236.8	999.0
Influenza	487	0.8	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.3	1.2	6.0	33.1
Chronic obstructive pulmonary diseases and allied conditions	490-496	31.8	1.6	0.2	0.3	0.5	0.6	1.6	9.8	47.2	149.2	294.8	362.9
Bronchitis, chronic and unspecified	490-491	1.6	1.1	0.1	0.0	0.0	0.0	0.1	0.4	1.9	6.0	14.1	28.5
Emphysema	492	6.0	0.1	-	0.0	0.0	0.0	0.2	2.1	10.2	30.9	54.2	49.3
Asthma	493	1.6	0.3	0.1	0.3	0.4	0.5	0.8	1.6	3.1	5.7	9.3	12.6
Other chronic obstructive pulmonary diseases and allied conditions	494-496	22.6	0.1	0.0	0.0	0.0	0.1	0.6	5.7	31.9	106.7	217.2	272.6
Ulcer of stomach and duodenum	531-533	2.7	0.2	0.0	0.0	0.0	0.1	0.4	1.1	3.3	8.2	23.5	61.6
Appendicitis	540-543	0.2	0.2	0.0	0.1	0.0	0.0	0.0	0.1	0.4	0.7	1.4	2.5
Hernia of abdominal cavity and intestinal obstruction without mention of hernia	550-553,560	2.3	2.8	0.2	0.1	0.1	0.1	0.2	0.6	1.8	5.3	20.0	67.4
Chronic liver disease and cirrhosis	571	10.9	0.5	0.1	0.0	0.2	2.8	9.6	20.3	32.2	37.2	31.5	20.8
Cholelithiasis and other disorders of gallbladder	574-575	1.2	0.1	0.0	0.0	0.0	0.0	0.1	0.3	1.0	3.5	11.7	33.1
Nephritis, nephrotic syndrome, and nephrosis	580-589	9.0	6.7	0.2	0.1	0.2	0.6	1.3	3.2	9.5	26.8	79.4	216.4
Acute glomerulonephritis and nephrotic syndrome	580-581	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.0	2.1
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	0.0	0.1	0.1	0.2	0.7	2.0	5.3	12.7
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause	584-586,588-589	8.3	6.4	0.1	0.1	0.2	0.5	1.1	2.9	8.6	24.5	73.1	201.6
Infections of kidney	590	0.8	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.7	6.7	26.2
Hyperplasia of prostate	600	0.2	-	-	-	-	-	-	-	0.1	0.5	1.9	8.1
Complications of pregnancy, childbirth, and the puerperium	630-676	0.1	...	...	-	0.2	0.3	0.2	0.0	...	...	...	...
Pregnancy with abortive outcome	630-638	0.0	...	...	-	0.1	0.0	0.0	-	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium	640-676	0.1	...	...	-	0.2	0.3	0.1	0.0	...	...	...	...
Congenital anomalies	740-759	5.2	218.8	6.1	1.3	1.3	0.9	1.2	1.4	2.0	2.8	4.0	5.9
Certain conditions originating in the perinatal period	760-779	7.6	483.7	0.9	0.0	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	1.9	123.5	0.2	0.0	0.0	0.0	-	0.0	-	-	-	-
Other conditions originating in the perinatal period	760-766,770-779	5.7	360.2	0.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0

See footnotes at end of table.

Table 9. Death rates for 72 selected causes by age: United States, 1986—Con.

<i>Cause of death</i> (Ninth Revision International Classification of Diseases, 1975)	<i>All ages</i> ¹	<i>Under 1 year</i> ²	<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>
Symptoms, signs, and ill-defined conditions 780-799	13.0	160.2	2.2	0.4	2.2	4.3	5.3	7.7	14.0	27.1	60.8	189.7
All other diseases Residual	65.6	44.8	6.4	2.9	5.7	15.0	25.4	38.8	75.0	176.1	493.9	1,320.5
Accidents and adverse effects E800-E949	39.5	24.1	20.4	12.5	51.2	39.5	31.1	30.7	34.8	49.0	106.3	252.2
Motor vehicle accidents E810-E825	19.9	4.9	7.0	6.9	39.0	24.2	16.6	15.1	15.1	17.9	28.8	25.3
All other accidents and adverse effects E800-E807, E826-E949	19.7	19.3	13.4	5.5	12.2	15.3	14.5	15.6	19.7	31.2	77.5	226.9
Suicide E950-E959	12.8	...	...	0.8	13.1	15.7	15.2	16.4	17.0	19.7	25.2	20.8
Homicide and legal intervention E960-E978	9.0	7.4	2.7	1.1	14.2	16.1	11.4	8.3	5.4	4.4	4.6	4.7
All other external causes E980-E999	1.3	1.4	0.4	0.1	1.2	2.0	1.9	1.5	1.3	1.0	1.4	1.9

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

²Death 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 20 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, 1986

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	2,105,361	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
Shigellosis and amebiasis 004,006	12	9	3	11	8	3	1	1	-	1	1	-
Certain other intestinal infections 007-009	347	192	155	257	134	123	90	58	32	82	53	29
Tuberculosis 010-018	1,782	1,157	625	1,065	679	386	717	478	239	628	424	204
Tuberculosis of respiratory system 010-012	1,407	948	459	859	564	295	548	384	164	478	339	139
Other tuberculosis 013-018	375	209	166	206	115	91	169	94	75	150	85	65
Whooping cough 033	6	4	2	3	3	-	3	1	2	3	1	2
Streptococcal sore throat, scarlatina, and erysipelas 034-035	12	5	7	10	5	5	2	-	2	2	-	2
Meningococcal infection 036	286	146	140	216	113	103	70	33	37	66	31	35
Septicemia 038	18,795	8,786	10,009	15,156	6,962	8,194	3,639	1,824	1,815	3,417	1,697	1,720
Acute poliomyelitis 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles 055	2	1	1	1	1	-	1	-	1	1	-	1
Viral hepatitis 070	1,006	619	387	830	517	313	176	102	74	126	66	60
Syphilis 090-097	80	42	38	43	22	21	37	20	17	37	20	17
All other infectious and parasitic diseases 001-003,005, 020-032,037,039-041, 046-054,056-066, 071-088,098-139	9,295	6,307	2,988	7,305	4,980	2,325	1,990	1,327	663	1,831	1,222	609
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . 140-208	469,376	250,559	218,817	412,352	218,381	193,971	57,024	32,178	24,846	51,979	29,363	22,616
Malignant neoplasms of lip, oral cavity, and pharynx . . . 140-149	8,292	5,514	2,778	6,879	4,476	2,403	1,413	1,038	375	1,289	956	333
Malignant neoplasms of digestive organs and peritoneum 150-159	116,508	61,137	55,371	100,884	52,533	48,351	15,624	8,604	7,020	13,858	7,554	6,304
Malignant neoplasms of respiratory and intrathoracic organs 160-165	130,450	88,813	41,637	115,179	77,647	37,532	15,271	11,166	4,105	14,112	10,368	3,744
Malignant neoplasm of breast 174-175	40,789	250	40,539	36,398	215	36,183	4,391	35	4,356	4,076	31	4,045
Malignant neoplasms of genital organs 179-187	51,247	27,878	23,369	43,437	23,257	20,180	7,810	4,621	3,189	7,322	4,420	2,902
Malignant neoplasms of urinary organs 188-189	19,113	12,153	6,960	17,435	11,218	6,217	1,678	935	743	1,536	855	681
Malignant neoplasms of all other and unspecified sites 170-173,190-199	59,446	31,663	27,783	53,038	28,284	24,754	6,408	3,379	3,029	5,813	3,055	2,758
Leukemia 204-208	17,365	9,565	7,800	15,709	8,685	7,024	1,656	880	776	1,460	771	689
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203	26,166	13,586	12,580	23,393	12,066	11,327	2,773	1,520	1,253	2,513	1,353	1,160

Table 10. Deaths from 72 selected causes by race and sex: United States, 1986—Con.

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
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	6,730	3,114	3,616	5,895	2,740	3,155	835	374	461	756	332	424
Diabetes mellitus 250	37,184	15,369	21,815	30,284	12,788	17,496	6,900	2,581	4,319	6,299	2,295	4,004
Nutritional deficiencies 260-269	2,862	1,088	1,774	2,438	883	1,555	424	205	219	392	190	202
Anemias 280-285	3,708	1,633	2,075	2,949	1,272	1,677	759	361	398	706	334	372
Meningitis 320-322	1,160	624	536	827	445	382	333	179	154	305	165	140
Major cardiovascular diseases 390-448	968,240	475,591	492,649	858,820	421,230	437,590	109,420	54,361	55,059	100,891	49,375	51,516
Diseases of heart 390-398, 402,404-429	765,490	390,912	374,578	681,363	347,967	333,396	84,127	42,945	41,182	77,726	39,076	38,650
Rheumatic fever and rheumatic heart disease 390-398	6,441	2,054	4,387	5,872	1,842	4,030	569	212	357	470	177	293
Hypertensive heart disease 402	20,509	8,614	11,895	14,982	6,043	8,939	5,527	2,571	2,956	5,312	2,465	2,847
Hypertensive heart and renal disease 404	2,496	1,017	1,479	1,831	721	1,110	665	296	369	634	279	355
Ischemic heart disease 410-414	520,729	274,184	246,545	475,398	251,111	224,287	45,331	23,073	22,258	41,201	20,498	20,703
Acute myocardial infarction 410	261,002	145,795	115,207	238,218	133,960	104,258	22,784	11,835	10,949	20,684	10,525	10,159
Other acute and subacute forms of ischemic heart disease 411	3,856	2,352	1,504	3,296	2,014	1,282	560	338	222	517	307	210
Angina pectoris 413	990	445	545	882	399	483	108	46	62	101	43	58
Old myocardial infarction and other forms of chronic ischemic heart disease 412,414	254,881	125,592	129,289	233,002	114,738	118,264	21,879	10,854	11,025	19,899	9,623	10,276
Other diseases of endocardium 424	10,130	4,586	5,544	9,283	4,176	5,107	847	410	437	754	356	398
All other forms of heart disease 415-423, 425-429	205,185	100,457	104,728	173,997	84,074	89,923	31,188	16,383	14,805	29,355	15,301	14,054
Hypertension with or without renal disease 401,403	7,984	3,403	4,581	6,171	2,639	3,532	1,813	764	1,049	1,732	719	1,013
Cerebrovascular diseases 430-438	149,643	59,164	90,479	130,006	50,365	79,641	19,637	8,799	10,838	17,952	7,938	10,014
Intracerebral and other intracranial hemorrhage 431-432	20,479	9,122	11,357	16,816	7,280	9,536	3,663	1,842	1,821	3,220	1,594	1,626
Cerebral thrombosis and unspecified occlusion of cerebral arteries 434.0,434.9	23,467	9,206	14,261	20,878	8,086	12,792	2,589	1,120	1,469	2,385	1,023	1,362
Cerebral embolism 434.1	784	314	470	713	284	429	71	30	41	64	28	36

All other and late effects of cerebrovascular diseases	430,433,435-438	104,913	40,522	64,391	91,599	34,715	56,884	13,314	5,807	7,507	12,283	5,293	6,990
Atherosclerosis	440	22,706	8,587	14,119	20,858	7,767	13,091	1,848	820	1,028	1,720	756	964
Other diseases of arteries, arterioles, and capillaries	441-448	22,417	13,525	8,892	20,422	12,492	7,930	1,995	1,033	962	1,761	886	875
Acute bronchitis and bronchiolitis	466	588	280	308	537	251	286	51	29	22	47	27	20
Pneumonia and influenza	480-487	69,812	34,203	35,609	62,323	29,891	32,432	7,489	4,312	3,177	6,700	3,836	2,864
Pneumonia	480-486	67,974	33,527	34,447	60,569	29,247	31,322	7,405	4,280	3,125	6,631	3,812	2,819
Influenza	487	1,838	676	1,162	1,754	644	1,110	84	32	52	69	24	45
Chronic obstructive pulmonary diseases and allied conditions	490-496	76,559	47,058	29,501	71,122	43,341	27,781	5,437	3,717	1,720	4,856	3,302	1,554
Bronchitis, chronic and unspecified	490-491	3,750	2,079	1,671	3,531	1,931	1,600	219	148	71	184	121	63
Emphysema	492	14,471	9,396	5,075	13,687	8,781	4,906	784	615	169	704	553	151
Asthma	493	3,955	1,584	2,371	3,036	1,178	1,858	919	406	513	828	360	468
Other chronic obstructive pulmonary diseases and allied conditions	494-496	54,383	33,999	20,384	50,868	31,451	19,417	3,515	2,548	967	3,140	2,268	872
Ulcer of stomach and duodenum	531-533	6,477	3,108	3,369	5,794	2,726	3,068	683	382	301	600	333	267
Appendicitis	540-543	512	280	232	394	215	179	118	65	53	109	59	50
Hernia of abdominal cavity and intestinal obstruction without mention of hernia	550-553,560	5,445	2,072	3,373	4,725	1,744	2,981	720	328	392	673	306	367
Chronic liver disease and cirrhosis	571	26,159	16,797	9,362	21,916	14,099	7,817	4,243	2,698	1,545	3,745	2,404	1,341
Cholelithiasis and other disorders of gallbladder	574-575	2,956	1,344	1,612	2,673	1,224	1,449	283	120	163	230	92	138
Nephritis, nephrotic syndrome, and nephrosis	580-589	21,767	10,863	10,904	17,446	8,754	8,692	4,321	2,109	2,212	4,020	1,963	2,057
Acute glomerulonephritis and nephrotic syndrome	580-581	293	133	160	243	107	136	50	26	24	49	25	24
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified	582-583,587	1,505	785	720	1,180	610	570	325	175	150	299	166	133
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause	584-586,588-589	19,969	9,945	10,024	16,023	8,037	7,986	3,946	1,908	2,038	3,672	1,772	1,900
Infections of kidney	590	1,870	562	1,308	1,623	479	1,144	247	83	164	223	76	147
Hyperplasia of prostate	600	508	508	...	439	439	...	69	69	...	65	65	...
Complications of pregnancy, childbirth, and the puerperium	630-676	272	...	272	146	...	146	126	...	126	117	...	117
Pregnancy with abortive outcome	630-638	51	...	51	24	...	24	27	...	27	26	...	26
Other complications of pregnancy, childbirth, and the puerperium	640-676	221	...	221	122	...	122	99	...	99	91	...	91

Table 10. Deaths from 72 selected causes by race and sex: United States, 1986—Con.

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
Congenital anomalies. . . 740-759	12,638	6,744	5,894	10,188	5,444	4,744	2,450	1,300	1,150	2,061	1,096	965
Certain conditions originating in the perinatal period . . . 760-779	18,391	10,563	7,828	11,814	6,815	4,999	6,577	3,748	2,829	6,149	3,501	2,648
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome 767-769	4,693	2,791	1,902	3,303	1,952	1,351	1,390	839	551	1,272	767	505
Other conditions originating in the perinatal period . . . 760-766,770-779	13,698	7,772	5,926	8,511	4,863	3,648	5,187	2,909	2,278	4,877	2,734	2,143
Symptoms, signs, and ill-defined conditions 780-799	31,390	17,587	13,803	24,304	13,465	10,839	7,086	4,122	2,964	6,642	3,865	2,777
All other diseases Residual	158,102	78,129	79,973	134,409	65,120	69,289	23,693	13,009	10,684	21,911	12,004	9,907
Accidents and adverse effects E800-E949	95,277	65,570	29,707	80,315	54,864	25,451	14,962	10,706	4,256	12,585	9,035	3,550
Motor vehicle accidents E810-E825	47,865	34,088	13,777	41,189	29,163	12,026	6,676	4,925	1,751	5,287	3,974	1,313
All other accidents and adverse effects. . . E800-E807, E826-E949	47,412	31,482	15,930	39,126	25,701	13,425	8,286	5,781	2,505	7,298	5,061	2,237
Suicide E950-E959	30,904	24,226	6,678	28,437	22,270	6,167	2,467	1,956	511	1,892	1,537	355
Homicide and legal intervention E960-E978	21,731	16,595	5,136	11,690	8,567	3,123	10,041	8,028	2,013	9,495	7,634	1,861
All other external causes E980-E999	3,120	2,270	850	2,326	1,683	643	794	587	207	684	510	174

Table 11. Death rates for 72 selected causes by race and sex: United States, 1986

[Rates per 100,000 population in specified group]

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.....	873.2	940.7	809.3	896.2	954.4	840.7	745.6	862.7	638.8	854.2	987.7	733.9
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	-
Certain other intestinal infections..... 007-009	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.4	0.2
Tuberculosis..... 010-018	0.7	1.0	0.5	0.5	0.7	0.4	1.9	2.7	1.2	2.1	3.1	1.3
Tuberculosis of respiratory system..... 010-012	0.6	0.8	0.4	0.4	0.6	0.3	1.5	2.2	0.9	1.6	2.4	0.9
Other tuberculosis..... 013-018	0.2	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	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	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	0.2	0.2	0.2	0.2
Septicemia..... 038	7.8	7.5	8.1	7.4	7.0	7.8	9.9	10.4	9.4	11.7	12.2	11.2
Acute poliomyelitis..... 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles..... 055	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
Viral hepatitis..... 070	0.4	0.5	0.3	0.4	0.5	0.3	0.5	0.6	0.4	0.4	0.5	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	0.1	0.1
All other infectious and parasitic diseases..... 001-003,005,020-032, 037,039-041,046-054,056-066,071-088,098-139	3.9	5.4	2.4	3.6	5.0	2.2	5.4	7.6	3.4	6.2	8.8	4.0
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	194.7	213.5	176.9	201.8	218.8	185.6	155.0	183.3	129.2	177.4	211.4	146.7
Malignant neoplasms of lip, oral cavity, and pharynx... 140-149	3.4	4.7	2.2	3.4	4.5	2.3	3.8	5.9	2.0	4.4	6.9	2.2
Malignant neoplasms of digestive organs and peritoneum..... 150-159	48.3	52.1	44.8	49.4	52.6	46.3	42.5	49.0	36.5	47.3	54.4	40.9
Malignant neoplasms of respiratory and intrathoracic organs..... 160-165	54.1	75.7	33.7	56.4	77.8	35.9	41.5	63.6	21.3	48.2	74.6	24.3
Malignant neoplasm of breast..... 174-175	16.9	0.2	32.8	17.8	0.2	34.6	11.9	0.2	22.7	13.9	0.2	26.2
Malignant neoplasms of genital organs..... 179-187	21.3	23.8	18.9	21.3	23.3	19.3	21.2	26.3	16.6	25.0	31.8	18.8
Malignant neoplasms of urinary organs..... 188-189	7.9	10.4	5.6	8.5	11.2	5.9	4.6	5.3	3.9	5.2	6.2	4.4
Malignant neoplasms of all other and unspecified sites..... 170-173,190-199	24.7	27.0	22.5	26.0	28.3	23.7	17.4	19.2	15.8	19.8	22.0	17.9
Leukemia..... 204-208	7.2	8.1	6.3	7.7	8.7	6.7	4.5	5.0	4.0	5.0	5.5	4.5
Other malignant neoplasms of lymphatic and hematopoietic tissues..... 200-203	10.9	11.6	10.2	11.4	12.1	10.8	7.5	8.7	6.5	8.6	9.7	7.5
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature..... 210-239	2.8	2.7	2.9	2.9	2.7	3.0	2.3	2.1	2.4	2.6	2.4	2.8
Diabetes mellitus..... 250	15.4	13.1	17.6	14.8	12.8	16.7	18.8	14.7	22.5	21.5	16.5	26.0
Nutritional deficiencies..... 260-269	1.2	0.9	1.4	1.2	0.9	1.5	1.2	1.2	1.1	1.3	1.4	1.3
Anemias..... 280-285	1.5	1.4	1.7	1.4	1.3	1.6	2.1	2.1	2.1	2.4	2.4	2.4
Meningitis..... 320-322	0.5	0.5	0.4	0.4	0.4	0.4	0.9	1.0	0.8	1.0	1.2	0.9
Major cardiovascular diseases..... 390-448	401.6	405.2	398.2	420.3	422.0	418.7	297.5	309.7	286.3	344.3	355.4	334.2
Diseases of heart..... 390-398, 402, 404-429	317.5	333.1	302.7	333.5	348.6	319.0	228.7	244.6	214.2	265.2	281.3	250.8
Rheumatic fever and rheumatic heart disease..... 390-398	2.7	1.8	3.5	2.9	1.8	3.9	1.5	1.2	1.9	1.6	1.3	1.9
Hypertensive heart disease..... 402	8.5	7.3	9.6	7.3	6.1	8.6	15.0	14.6	15.4	18.1	17.7	18.5
Hypertensive heart and renal disease..... 404	1.0	0.9	1.2	0.9	0.7	1.1	1.8	1.7	1.9	2.2	2.0	2.3
Ischemic heart disease..... 410-414	216.0	233.6	199.3	232.7	251.6	214.6	123.2	131.4	115.8	140.6	147.6	134.3
Acute myocardial infarction..... 410	108.3	124.2	93.1	116.6	134.2	99.8	61.9	67.4	56.9	70.6	75.8	65.9
Other acute and subacute forms of ischemic heart disease..... 411	1.6	2.0	1.2	1.6	2.0	1.2	1.5	1.9	1.2	1.8	2.2	1.4

Table 11. Death rates for 72 selected causes by race and sex: United States, 1986—Con.

[Rates per 100,000 population in specified group]

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	
Major cardiovascular diseases—Con.													
Diseases of heart—Con.													
Ischemic heart disease—Con.													
Angina pectoris	413	0.4	0.4	0.4	0.4	0.4	0.5	0.3	0.3	0.3	0.3	0.3	0.4
Old myocardial infarction and other forms of chronic ischemic heart disease	412, 414	105.7	107.0	104.5	114.0	115.0	113.2	59.5	61.8	57.3	67.9	69.3	66.7
Other diseases of endocardium	424	4.2	3.9	4.5	4.5	4.2	4.9	2.3	2.3	2.3	2.6	2.6	2.6
All other forms of heart disease	415–423, 425–429	85.1	85.6	84.6	85.2	84.2	86.0	84.8	93.3	77.0	100.2	110.1	91.2
Hypertension with or without renal disease	401, 403	3.3	2.9	3.7	3.0	2.6	3.4	4.9	4.4	5.5	5.9	5.2	6.6
Cerebrovascular diseases	430–438	62.1	50.4	73.1	63.6	50.5	76.2	53.4	50.1	56.4	61.3	57.1	65.0
Intracerebral and other intracranial hemorrhage	431–432	8.5	7.8	9.2	8.2	7.3	9.1	10.0	10.5	9.5	11.0	11.5	10.5
Cerebral thrombosis and unspecified occlusion of cerebral arteries	434.0, 434.9	9.7	7.8	11.5	10.2	8.1	12.2	7.0	6.4	7.6	8.1	7.4	8.8
Cerebral embolism	434.1	0.3	0.3	0.4	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	43.5	34.5	52.0	44.8	34.8	54.4	36.2	33.1	39.0	41.9	38.1	45.4
Atherosclerosis	440	9.4	7.3	11.4	10.2	7.8	12.5	5.0	4.7	5.3	5.9	5.4	6.3
Other diseases of arteries, arterioles, and capillaries	441–448	9.3	11.5	7.2	10.0	12.5	7.6	5.4	5.9	5.0	6.0	6.4	5.7
Acute bronchitis and bronchiolitis	466	0.2	0.2	0.2	0.3	0.3	0.3	0.1	0.2	0.1	0.2	0.2	0.1
Pneumonia and influenza	480–487	29.0	29.1	28.8	30.5	29.9	31.0	20.4	24.6	16.5	22.9	27.6	18.6
Pneumonia	480–486	28.2	28.6	27.8	29.6	29.3	30.0	20.1	24.4	16.3	22.6	27.4	18.3
Influenza	487	0.8	0.6	0.9	0.9	0.6	1.1	0.2	0.2	0.3	0.2	0.2	0.3
Chronic obstructive pulmonary diseases and allied conditions	490–496	31.8	40.1	23.8	34.8	43.4	26.6	14.8	21.2	8.9	16.6	23.8	10.1
Bronchitis, chronic and unspecified	490–491	1.6	1.8	1.4	1.7	1.9	1.5	0.6	0.8	0.4	0.6	0.9	0.4
Emphysema	492	6.0	8.0	4.1	6.7	8.8	4.7	2.1	3.5	0.9	2.4	4.0	1.0
Asthma	493	1.6	1.3	1.9	1.5	1.2	1.8	2.5	2.3	2.7	2.8	2.6	3.0
Other chronic obstructive pulmonary diseases and allied conditions	494–496	22.6	29.0	16.5	24.9	31.5	18.6	9.6	14.5	5.0	10.7	16.3	5.7
Ulcer of stomach and duodenum	531–533	2.7	2.6	2.7	2.8	2.7	2.9	1.9	2.2	1.6	2.0	2.4	1.7
Appendicitis	540–543	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.3	0.4	0.4	0.3
Hernia of abdominal cavity and intestinal obstruction without mention of hernia	550–553, 560	2.3	1.8	2.7	2.3	1.7	2.9	2.0	1.9	2.0	2.3	2.2	2.4
Chronic liver disease and cirrhosis	571	10.9	14.3	7.6	10.7	14.1	7.5	11.5	15.4	8.0	12.8	17.3	8.7
Cholelithiasis and other disorders of gallbladder	574–575	1.2	1.1	1.3	1.3	1.2	1.4	0.8	0.7	0.8	0.8	0.7	0.9
Nephritis, nephrotic syndrome, and nephrosis	580–589	9.0	9.3	8.8	8.5	8.8	8.3	11.7	12.0	11.5	13.7	14.1	13.3
Acute glomerulonephritis and nephrotic syndrome	580–581	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified	582–583, 587	0.6	0.7	0.6	0.6	0.6	0.5	0.9	1.0	0.8	1.0	1.2	0.9
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause	584–586, 588–589	8.3	8.5	8.1	7.8	8.1	7.6	10.7	10.9	10.6	12.5	12.8	12.3
Infections of kidney	590	0.8	0.5	1.1	0.8	0.5	1.1	0.7	0.5	0.9	0.8	0.5	1.0
Hyperplasia of prostate	600	0.2	0.4	...	0.2	0.4	...	0.2	0.4	...	0.2	0.5	...

Complications of pregnancy, childbirth, and the puerperium.....	630-676	0.1	...	0.2	0.1	...	0.1	0.3	..	0.7	0.4	...	0.8
Pregnancy with abortive outcome	630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.1	0.1	...	0.2
Other complications of pregnancy, childbirth, and the puerperium.....	640-676	0.1	...	0.2	0.1	...	0.1	0.3	...	0.5	0.3	...	0.6
Congenital anomalies	740-759	5.2	5.7	4.8	5.0	5.5	4.5	6.7	7.4	6.0	7.0	7.9	6.3
Certain conditions originating in the perinatal period...	760-779	7.6	9.0	6.3	5.8	6.8	4.8	17.9	21.4	14.7	21.0	25.2	17.2
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome	767-769	1.9	2.4	1.5	1.6	2.0	1.3	3.8	4.8	2.9	4.3	5.5	3.3
Other conditions originating in the perinatal period	760-766, 770-779	5.7	6.6	4.8	4.2	4.9	3.5	14.1	16.6	11.8	16.6	19.7	13.9
Symptoms, signs, and ill-defined conditions.....	780-799	13.0	15.0	11.2	11.9	13.5	10.4	19.3	23.5	15.4	22.7	27.8	18.0
All other diseases	Residual	65.6	66.6	64.6	65.8	65.2	66.3	64.4	74.1	55.6	74.8	86.4	64.3
Accidents and adverse effects	E800-E949	39.5	55.9	24.0	39.3	55.0	24.4	40.7	61.0	22.1	42.9	65.0	23.0
Motor vehicle accidents	E810-E825	19.9	29.0	11.1	20.2	29.2	11.5	18.1	28.1	9.1	18.0	28.6	8.5
All other accidents and adverse effects	E800-E807, E826-E949	19.7	26.8	12.9	19.2	25.7	12.8	22.5	32.9	13.0	24.9	36.4	14.5
Suicide	E950-E959	12.8	20.6	5.4	13.9	22.3	5.9	6.7	11.1	2.7	6.5	11.1	2.3
Homicide and legal intervention	E960-E978	9.0	14.1	4.2	5.7	8.6	3.0	27.3	45.7	10.5	32.4	55.0	12.1
All other external causes.....	E980-E999	1.3	1.9	0.7	1.1	1.7	0.6	2.2	3.3	1.1	2.3	3.7	1.1

Table 12. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1986

[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]

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	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
Shigellosis and amebiasis	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-
Certain other intestinal infections	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.3	0.2
Tuberculosis	0.5	0.8	0.3	0.3	0.5	0.2	1.9	3.0	1.1	2.2	3.4	1.1
Tuberculosis of respiratory system	0.4	0.7	0.2	0.3	0.4	0.1	1.5	2.4	0.7	1.6	2.8	0.8
Other tuberculosis	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	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0
Streptococcal sore throat, scarlatina, and erysipelas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
Meningococcal infection	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Septicemia	4.3	5.2	3.6	3.8	4.5	3.2	8.6	10.7	7.1	10.0	12.4	8.1
Acute poliomyelitis	-	-	-	-	-	-	-	-	-	-	-	-
Measles	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
Viral hepatitis	0.4	0.5	0.2	0.3	0.4	0.2	0.5	0.6	0.4	0.4	0.5	0.4
Syphilis	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
All other infectious and parasitic diseases	3.2	4.9	1.7	2.9	4.4	1.4	5.5	8.1	3.3	6.5	9.6	3.8
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	133.2	163.6	111.4	130.4	158.8	110.1	154.1	202.2	118.8	172.8	229.0	132.1
Malignant neoplasms of lip, oral cavity, and pharynx	2.6	3.9	1.4	2.3	3.4	1.3	4.2	7.1	1.9	4.8	8.3	2.1
Malignant neoplasms of digestive organs and peritoneum	30.9	39.4	24.3	29.6	37.5	23.4	41.2	54.2	31.3	44.7	59.0	33.8
Malignant neoplasms of respiratory and intrathoracic organs	39.0	59.8	22.9	38.4	58.0	23.1	43.3	72.8	20.7	49.4	83.9	23.3
Malignant neoplasm of breast	12.6	0.2	23.1	12.5	0.2	23.0	12.6	0.2	22.5	14.6	0.2	25.8
Malignant neoplasms of genital organs	13.1	15.5	12.5	12.4	14.3	12.1	19.5	26.0	15.6	22.2	30.6	17.3
Malignant neoplasms of urinary organs	5.0	7.6	3.1	5.0	7.8	3.0	4.3	5.7	3.3	4.8	6.5	3.7
Malignant neoplasms of all other and unspecified sites	17.6	21.9	14.2	17.7	21.9	14.2	17.3	21.4	14.1	19.4	24.2	15.7
Leukemia	5.0	6.4	3.9	5.1	6.5	3.9	4.3	5.3	3.6	4.7	5.7	3.8
Other malignant neoplasms of lymphatic and hematopoietic tissues	7.4	9.1	6.0	7.4	9.1	6.0	7.4	9.5	5.8	8.3	10.5	6.6
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature	1.8	2.0	1.7	1.8	2.0	1.6	2.1	2.3	2.1	2.4	2.5	2.3
Diabetes mellitus	9.6	9.9	9.3	8.5	9.1	8.1	17.8	16.1	19.0	20.0	17.9	21.4
Nutritional deficiencies	0.5	0.5	0.5	0.5	0.5	0.4	0.9	1.1	0.7	1.0	1.3	0.8
Anemias	0.9	1.0	0.8	0.7	0.8	0.6	1.8	2.0	1.7	2.2	2.3	2.0
Meningitis	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	216.8	286.1	161.8	209.7	280.1	153.8	265.5	327.9	216.9	300.0	370.4	245.8
Diseases of heart	175.0	238.2	124.6	170.4	234.8	119.0	205.3	260.1	162.8	232.6	294.3	185.1
Rheumatic fever and rheumatic heart disease	1.8	1.4	2.1	1.8	1.4	2.1	1.6	1.3	1.8	1.6	1.4	1.8
Hypertensive heart disease	5.0	5.7	4.5	3.8	4.3	3.3	14.6	16.4	13.0	17.3	19.7	15.3
Hypertensive heart and renal disease	0.5	0.6	0.5	0.4	0.4	0.3	1.6	1.7	1.5	1.9	2.1	1.7
Ischemic heart disease	118.8	166.9	80.7	119.6	169.9	79.5	109.6	139.6	86.3	121.7	153.9	97.0
Acute myocardial infarction	64.3	91.9	42.3	65.0	94.1	41.7	57.2	73.0	45.0	63.5	80.5	50.5
Other acute and subacute forms of ischemic heart disease	1.0	1.6	0.6	1.0	1.5	0.5	1.5	2.2	0.9	1.7	2.5	1.1

Angina pectoris	413	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3
Old myocardial infarction and other forms of chronic ischemic heart disease	412,414	53.2	73.2	37.6	53.3	74.0	37.1	50.6	64.2	40.1	56.2	70.6	45.1
Other diseases of endocardium	424	2.2	2.7	1.9	2.2	2.7	1.9	2.1	2.5	1.7	2.3	2.8	2.0
All other forms of heart disease	415-423,425-429	46.6	61.0	35.1	42.7	56.2	31.9	75.9	98.4	58.5	87.7	114.5	67.3
Hypertension with or without renal disease	401,403	1.8	2.0	1.6	1.5	1.7	1.3	4.5	4.7	4.3	5.3	5.5	5.1
Cerebrovascular diseases.	430-438	31.0	33.5	29.0	28.8	31.1	27.1	47.0	52.4	42.7	52.6	58.9	47.6
Intracerebral and other intracranial hemorrhage.	431-432	5.5	6.0	5.0	4.7	5.2	4.4	10.2	12.1	8.8	11.2	13.2	9.7
Cerebral thrombosis and unspecified occlusion of cerebral arteries	434.0,434.9	4.5	5.1	4.1	4.3	4.9	3.9	5.9	6.5	5.4	6.7	7.4	6.1
Cerebral embolism	434.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
All other and late effects of cerebrovascular diseases	430,433,435-438	20.8	22.2	19.7	19.5	20.8	18.5	30.6	33.7	28.3	34.4	38.1	31.6
Atherosclerosis	440	3.7	4.3	3.3	3.7	4.3	3.2	3.7	4.4	3.1	4.1	5.0	3.5
Other diseases of arteries, arterioles, and capillaries.	441-448	5.4	8.1	3.3	5.3	8.3	3.2	5.0	6.3	4.0	5.4	6.7	4.5
Acute bronchitis and bronchiolitis	466	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1
Pneumonia and influenza.	480-487	13.5	18.4	10.3	12.9	17.5	9.9	17.1	24.3	11.8	19.0	27.2	13.1
Pneumonia	480-486	13.3	18.1	10.0	12.6	17.2	9.6	16.9	24.1	11.7	18.8	27.0	12.9
Influenza.	487	0.3	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Chronic obstructive pulmonary diseases and allied conditions.	490-496	18.8	27.6	12.8	19.2	28.1	13.3	14.0	22.2	8.0	15.4	24.6	8.9
Bronchitis, chronic and unspecified	490-491	0.9	1.2	0.6	0.9	1.2	0.7	0.5	0.9	0.3	0.5	0.9	0.3
Emphysema	492	3.7	5.6	2.3	3.9	5.8	2.5	2.0	3.8	0.8	2.2	4.2	0.9
Asthma	493	1.2	1.1	1.3	1.0	0.9	1.1	2.6	2.5	2.7	2.9	2.9	3.0
Other chronic obstructive pulmonary diseases and allied conditions.	494-496	13.0	19.6	8.6	13.5	20.1	9.0	8.8	15.1	4.2	9.6	16.7	4.7
Ulcer of stomach and duodenum	531-533	1.4	1.9	1.2	1.4	1.8	1.1	1.7	2.3	1.2	1.8	2.5	1.3
Appendicitis	540-543	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.3	0.4	0.4	0.3
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	1.6	1.8	1.5	1.9	2.1	1.7
Chronic liver disease and cirrhosis.	571	9.2	13.0	5.9	8.6	12.2	5.4	12.9	18.4	8.5	14.5	20.8	9.3
Cholelithiasis and other disorders of gallbladder.	574-575	0.6	0.7	0.5	0.6	0.7	0.5	0.6	0.7	0.6	0.6	0.6	0.6
Nephritis, nephrotic syndrome, and nephrosis.	580-589	4.9	6.2	4.0	4.2	5.4	3.3	10.3	12.2	8.8	11.7	14.2	9.9
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	0.3	0.5	0.3	0.3	0.4	0.2	0.8	1.0	0.6	0.9	1.2	0.7
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause	584-586,588-589	4.4	5.7	3.6	3.8	4.9	3.0	9.4	11.1	8.1	10.7	12.8	9.2
Infections of kidney.	590	0.4	0.3	0.4	0.3	0.3	0.4	0.6	0.4	0.6	0.6	0.5	0.7
Hyperplasia of prostate	600	0.1	0.2	...	0.1	0.2	...	0.1	0.4	...	0.2	0.4	...
Complications of pregnancy, childbirth, and the puerperium	630-676	0.1	...	0.2	0.1	...	0.1	0.3	...	0.6	0.4	...	0.7
Pregnancy with abortive outcome.	630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.1	0.1	...	0.2
Other complications of pregnancy, childbirth, and the puerperium	640-676	0.1	...	0.2	0.1	...	0.1	0.2	...	0.5	0.3	...	0.6
Congenital anomalies.	740-759	5.1	5.4	4.7	5.0	5.3	4.6	5.6	6.0	5.2	5.9	6.4	5.5
Certain conditions originating in the perinatal period	760-779	7.5	8.4	6.5	5.9	6.7	5.2	14.1	15.9	12.3	16.5	18.6	14.4
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome	767-769	1.9	2.2	1.6	1.7	1.9	1.4	3.0	3.5	2.4	3.4	4.1	2.7
Other conditions originating in the perinatal period.	760-766,770-779	5.6	6.2	4.9	4.3	4.8	3.8	11.1	12.3	9.9	13.1	14.5	11.6
Symptoms, signs, and ill-defined conditions.	780-799	9.4	12.3	6.9	8.2	10.7	5.9	17.2	22.9	12.5	20.1	27.1	14.5
All other diseases	Residual	39.9	50.1	31.4	36.7	46.0	29.1	60.3	78.6	45.4	69.5	91.7	51.7

Table 12. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1986—Con.

[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]

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
Accidents and adverse effects..... E800–E949	35.2	52.5	18.7	34.5	51.1	18.4	39.9	62.3	20.4	42.1	66.9	21.0
Motor vehicle accidents..... E810–E825	19.4	28.5	10.6	19.8	28.7	11.0	18.1	28.4	9.1	18.1	29.2	8.5
All other accidents and adverse effects..... E800–E807, E826–E949	15.7	23.9	8.1	14.7	22.4	7.4	21.7	33.9	11.3	24.0	37.7	12.6
Suicide..... E950–E959	11.9	19.3	5.1	12.7	20.5	5.4	6.8	11.5	2.7	6.6	11.5	2.4
Homicide and legal intervention..... E960–E978	9.0	13.9	4.1	5.6	8.4	2.9	27.2	46.1	10.2	32.4	55.9	11.8
All other external causes..... E980–E999	1.2	1.8	0.6	1.1	1.6	0.6	2.2	3.5	1.0	2.4	3.9	1.1

Table 13. Infant, neonatal, and postneonatal mortality rates, by race and sex: United States, 1940, 1950, 1960, 1970, and 1975-86

[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 other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Infant mortality rate												
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												
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												
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, 1986

[Rates per 100,000 live births]

<i>Rank order</i>	<i>Cause of death</i> (Ninth Revision International Classification of Diseases, 1975)	<i>Number</i>	<i>Rate</i>
...	All causes	38,891	1,035.3
1	Congenital anomalies..... 740-759	8,244	219.5
2	Sudden infant death syndrome..... 798.0	5,278	140.5
3	Respiratory distress syndrome..... 769	3,403	90.6
4	Disorders relating to short gestation and unspecified low birthweight..... 765	3,245	86.4
5	Newborn affected by maternal complications of pregnancy..... 761	1,355	36.1
6	Intrauterine hypoxia and birth asphyxia..... 768	983	26.2
7	Infections specific to the perinatal period..... 771	918	24.4
8	Accidents and adverse effects..... E800-E949	909	24.2
9	Newborn affected by complications of placenta, cord, and membranes..... 762	836	22.3
10	Pneumonia and influenza..... 480-487	663	17.6
...	All other causes..... Residual	13,057	347.6

Table 15. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1986

[Rates per 100,000 live births in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races		All other		All races		All other	
	White	Black	Total	Black	White	Total	Black	
	Number				Rate			
All causes	38,891	26,564	12,327	11,204	1,035.3	894.3	1,568.1	1,803.5
Certain intestinal infections 008-009	114	54	60	54	3.0	1.8	7.6	8.7
Whooping cough 033	5	2	3	3	0.1	0.1	0.4	0.5
Meningococcal infection 036	62	49	13	11	1.7	1.6	1.7	1.8
Septicemia 038	302	189	113	104	8.0	6.4	14.4	16.7
Viral diseases 045-079	130	88	42	32	3.5	3.0	5.3	5.2
Congenital syphilis 090	4	4	-	-	0.1	0.1	-	-
Remainder of infectious and parasitic diseases 001-007, 010-032,034-035,037,039-041,080-088,091-139	101	54	47	42	2.7	1.8	6.0	6.8
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	97	82	15	13	2.6	2.8	1.9	2.1
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	78	65	13	11	2.1	2.2	1.7	1.8
Diseases of thymus gland 254	5	4	1	1	0.1	0.1	0.1	0.2
Cystic fibrosis 277.0	16	14	2	2	0.4	0.5	0.3	0.3
Diseases of blood and blood-forming organs 280-289	65	28	37	28	1.7	0.9	4.7	4.5
Meningitis 320-322	220	135	85	74	5.9	4.5	10.8	11.9
Other diseases of nervous system and sense organs 323-389	420	320	100	90	11.2	10.8	12.7	14.5
Acute upper respiratory infections 460-465	45	31	14	11	1.2	1.0	1.8	1.8
Bronchitis and bronchiolitis 466,490-491	99	70	29	26	2.6	2.4	3.7	4.2
Pneumonia and influenza 480-487	663	421	242	223	17.6	14.2	30.8	35.9
Pneumonia 480-486	656	415	241	222	17.5	14.0	30.7	35.7
Influenza 487	7	6	1	1	0.2	0.2	0.1	0.2
Remainder of diseases of respiratory system 470-478,492-519	491	306	185	165	13.1	10.3	23.5	26.6
Hernia of abdominal cavity and intestinal obstruction without mention of hernia 550-553,560	104	71	33	27	2.8	2.4	4.2	4.3
Gastritis, duodenitis, and noninfective enteritis and colitis 535,555-558	86	48	38	31	2.3	1.6	4.8	5.0
Remainder of diseases of digestive system 520-534,536-543,562-579	205	140	65	61	5.5	4.7	8.3	9.8
Congenital anomalies 740-759	8,244	6,519	1,725	1,442	219.5	219.5	219.4	232.1
Anencephalus and similar anomalies 740	612	511	101	77	16.3	17.2	12.8	12.4
Spina bifida 741	84	74	10	9	2.2	2.5	1.3	1.4
Congenital hydrocephalus 742.3	198	148	50	43	5.3	5.0	6.4	6.9
Other congenital anomalies of central nervous system and eye 742.0-742.2,742.4-742.9,743	304	238	66	55	8.1	8.0	8.4	8.9
Congenital anomalies of heart 745-746	2,443	1,934	509	430	65.0	65.1	64.7	69.2
Other congenital anomalies of circulatory system 747	618	430	188	158	16.5	14.5	23.9	25.4
Congenital anomalies of respiratory system 748	1,100	859	241	209	29.3	28.9	30.7	33.6
Congenital anomalies of digestive system 749-751	137	111	26	21	3.6	3.7	3.3	3.4
Congenital anomalies of genitourinary system 752-753	526	440	86	67	14.0	14.8	10.9	10.8
Congenital anomalies of musculoskeletal system 754-756	615	515	100	87	16.4	17.3	12.7	14.0
Down's syndrome 758.0	95	81	14	13	2.5	2.7	1.8	2.1
Other chromosomal anomalies 758.1-758.9	758	586	172	140	20.2	19.7	21.9	22.5
All other and unspecified congenital anomalies 744,757,759	754	592	162	133	20.1	19.9	20.6	21.4
Certain conditions originating in the perinatal period 760-779	18,226	11,691	6,535	6,109	485.2	393.6	831.3	983.4
Newborn affected by maternal conditions which may be unrelated to present pregnancy 760	119	81	38	31	3.2	2.7	4.8	5.0
Newborn affected by maternal complications of pregnancy 761	1,355	948	407	379	36.1	31.9	51.8	61.0
Newborn affected by complications of placenta, cord, and membranes 762	836	581	255	235	22.3	19.6	32.4	37.8
Newborn affected by other complications of labor and delivery 763	73	44	29	28	1.9	1.5	3.7	4.5
Slow fetal growth and fetal malnutrition 764	22	13	9	6	0.6	0.4	1.1	1.0
Disorders relating to short gestation and unspecified low birthweight 765	3,245	1,790	1,455	1,400	86.4	60.3	185.1	225.4
Disorders relating to long gestation and high birthweight 766	-	-	-	-	-	-	-	-
Birth trauma 767	266	188	78	75	7.1	6.3	9.9	12.1

Table 15. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1986—Con.

[Rates per 100,000 live births in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races		All other		All races		All other	
	White	Black	Total	Black	White	Total	Black	
	Number				Rate			
Certain conditions originating in the perinatal period—Con.								
Intrauterine hypoxia and birth asphyxia 768	983	658	325	296	26.2	22.2	41.3	47.6
Fetal distress in liveborn infant 768.2–768.4	190	137	53	45	5.1	4.6	6.7	7.2
Birth asphyxia 768.5–768.9	793	521	272	251	21.1	17.5	34.6	40.4
Respiratory distress syndrome 769	3,403	2,422	981	896	90.6	81.5	124.8	144.2
Other respiratory conditions of newborn 770	3,576	2,295	1,281	1,195	95.2	77.3	163.0	192.4
Infections specific to the perinatal period 771	918	614	304	274	24.4	20.7	38.7	44.1
Neonatal hemorrhage 772	346	219	127	117	9.2	7.4	16.2	18.8
Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice 773–774	50	33	17	13	1.3	1.1	2.2	2.1
Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus 775.0–775.1	5	4	1	1	0.1	0.1	0.1	0.2
Hemorrhagic disease of newborn 776.0	4	2	2	2	0.1	0.1	0.3	0.3
All other and ill-defined conditions originating in the perinatal period 775.2–775.9, 776.1–779	3,025	1,799	1,226	1,161	80.5	60.6	156.0	186.9
Symptoms, signs, and ill-defined conditions 780–799	6,038	4,138	1,900	1,711	160.7	139.3	241.7	275.4
Sudden infant death syndrome 798.0	5,278	3,654	1,624	1,451	140.5	123.0	206.6	233.6
Symptoms, signs, and all other ill-defined conditions 780–797, 798.1–799	760	484	276	260	20.2	16.3	35.1	41.9
Accidents and adverse effects E800–E949	909	602	307	268	24.2	20.3	39.1	43.1
Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation E911–E912	157	104	53	43	4.2	3.5	6.7	6.9
Accidental mechanical suffocation E913	188	129	59	56	5.0	4.3	7.5	9.0
Other accidental causes and adverse effects E800–E910, E914–E949	564	369	195	169	15.0	12.4	24.8	27.2
Homicide E960–E969	278	160	118	113	7.4	5.4	15.0	18.2
Child battering and other maltreatment E967	106	54	52	51	2.8	1.8	6.6	8.2
Other homicide E960–E966, E968–E969	172	106	66	62	4.6	3.6	8.4	10.0
All other causes Residual	1,884	1,279	605	552	50.2	43.1	77.0	88.9

Table 16. Maternal deaths and maternal mortality rates for selected causes by race: United States, 1986

[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]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races		All other		All races		All other	
	White	Black	Total	Black	White	Total	Black	
	Number				Rate			
Complications of pregnancy, childbirth, and the puerperium 630–676	272	146	126	117	7.2	4.9	16.0	18.8
Pregnancy with abortive outcome 630–638	51	24	27	26	1.4	0.8	3.4	4.2
Ectopic pregnancy 633	36	16	20	19	1.0	0.5	2.5	3.1
Spontaneous abortion 634	2	1	1	1	0.1	0.0	0.1	0.2
Legally induced abortion 635	3	2	1	1	0.1	0.1	0.1	0.2
Illegally induced abortion 636	2	1	1	1	0.1	0.0	0.1	0.2
Other pregnancy with abortive outcome 630–632, 637–638	8	4	4	4	0.2	0.1	0.5	0.6
Direct obstetric causes 640–646, 651–676	200	116	84	79	5.3	3.9	10.7	12.7
Hemorrhage of pregnancy and childbirth 640–641, 666	27	16	11	9	0.7	0.5	1.4	1.4
Toxemia of pregnancy 642.4–642.9, 643	40	19	21	21	1.1	0.6	2.7	3.4
Obstructed labor 660	1	-	1	1	0.0	-	0.1	0.2
Complications of the puerperium 670–676	75	42	33	31	2.0	1.4	4.2	5.0
Other direct obstetric causes 642.0–642.3, 644–646, 651–659, 661–665, 667–669	57	39	18	17	1.5	1.3	2.3	2.7
Indirect obstetric causes 647–648	20	6	14	12	0.5	0.2	1.8	1.9
Delivery in a completely normal case 650	1	-	1	-	0.0	-	0.1	-

Table 17. Total deaths and death rates, and infant and neonatal deaths and mortality rates for the United States, each division, and State; and by race and sex for the United States: 1986

Race, sex, and area	Total deaths		Infant deaths (under 1 year)		Neonatal deaths (under 28 days)	
	Number	Rate ¹	Number	Rate ²	Number	Rate ²
United States	2,105,361	873.2	38,891	10.4	25,212	6.7
Male	1,104,005	940.7	22,224	11.5	14,274	7.4
Female	1,001,356	809.3	16,667	9.1	10,938	6.0
White	1,831,083	896.2	26,564	8.9	17,256	5.8
Male	952,554	954.4	15,284	10.0	9,824	6.4
Female	878,529	840.7	11,280	7.8	7,432	5.1
All other	274,278	745.6	12,327	15.7	7,956	10.1
Male	151,451	862.7	6,940	17.3	4,450	11.1
Female	122,827	638.8	5,387	14.0	3,506	9.1
Black	250,326	854.2	11,204	18.0	7,297	11.7
Male	137,214	987.7	6,305	20.0	4,096	13.0
Female	113,112	733.9	4,899	16.0	3,201	10.5
New England	118,206	927.7	1,601	8.8	1,118	6.2
Maine	11,237	958.8	147	8.8	94	5.6
New Hampshire	8,592	836.6	144	9.1	93	5.9
Vermont	4,760	879.9	81	10.0	61	7.5
Massachusetts	55,803	956.5	697	8.5	480	5.8
Rhode Island	9,718	996.7	126	9.4	87	6.5
Connecticut	28,096	879.9	406	9.1	303	6.8
Middle Atlantic	369,590	990.5	5,526	10.4	3,744	7.0
New York	173,540	975.2	2,824	10.7	1,937	7.3
New Jersey	71,655	939.7	1,062	9.8	715	6.6
Pennsylvania	124,395	1,045.9	1,640	10.2	1,092	6.8
East North Central	374,789	898.3	6,951	11.1	4,611	7.4
Ohio	99,716	927.8	1,680	10.6	1,086	6.9
Indiana	49,366	897.1	895	11.3	597	7.5
Illinois	103,371	894.9	2,144	12.1	1,437	8.1
Michigan	80,222	877.8	1,564	11.4	1,080	7.8
Wisconsin	42,114	880.5	668	9.2	411	5.7
West North Central	161,172	917.4	2,583	9.7	1,582	5.9
Minnesota	35,082	832.7	606	9.2	365	5.5
Iowa	27,066	949.7	329	8.5	216	5.6
Missouri	50,180	990.9	805	10.7	512	6.8
North Dakota	5,289	778.9	91	8.4	44	4.1
South Dakota	6,579	929.2	155	13.3	83	7.1
Nebraska	14,678	918.5	247	10.1	162	6.6
Kansas	22,298	906.8	350	8.9	200	5.1
South Atlantic	372,258	909.3	7,130	11.7	4,827	7.9
Delaware	5,631	889.6	112	11.5	86	8.8
Maryland	37,358	837.4	816	11.7	576	8.3
District of Columbia	7,284	1,165.4	212	21.1	162	16.1
Virginia	46,516	802.7	965	11.1	651	7.5
West Virginia	19,868	1,036.4	238	10.2	154	6.6
North Carolina	54,609	862.6	1,042	11.5	691	7.7
South Carolina	28,141	832.3	684	13.2	456	8.8
Georgia	49,347	809.0	1,224	12.5	835	8.5
Florida	123,504	1,056.1	1,837	11.0	1,216	7.3
East South Central	141,215	929.0	2,544	11.6	1,652	7.5
Kentucky	34,818	934.5	509	9.8	330	6.4
Tennessee	44,250	921.9	727	11.0	457	6.9
Alabama	37,718	931.3	790	13.3	541	9.1
Mississippi	24,429	931.0	518	12.4	324	7.7
West South Central	209,038	778.1	4,728	10.1	2,951	6.3
Arkansas	23,968	1,010.9	355	10.3	196	5.7
Louisiana	36,373	808.5	927	11.9	605	7.8
Oklahoma	29,950	905.9	525	10.4	312	6.2
Texas	118,747	711.5	2,921	9.5	1,838	6.0
Mountain	90,202	694.8	2,167	9.3	1,267	5.4
Montana	6,754	826.7	122	9.6	71	5.6
Idaho	7,388	737.3	186	11.3	111	6.7
Wyoming	3,218	634.7	94	10.9	50	5.8
Colorado	20,810	637.2	476	8.6	293	5.3
New Mexico	10,114	683.8	261	9.5	148	5.4

See footnotes and note at end of table.

Table 17. Total deaths and death rates, and infant and neonatal deaths and mortality rates for the United States, each division, and State; and by race and sex for the United States: 1986—Con.

<i>Race, sex, and area</i>	<i>Total deaths</i>		<i>Infant deaths (under 1 year)</i>		<i>Neonatal deaths (under 28 days)</i>	
	<i>Number</i>	<i>Rate¹</i>	<i>Number</i>	<i>Rate²</i>	<i>Number</i>	<i>Rate²</i>
Mountain—Con.						
Arizona	25,569	779.8	571	9.4	332	5.5
Utah	8,939	537.2	312	8.6	184	5.1
Nevada	7,410	766.3	145	9.1	78	4.9
Pacific.....	268,891	751.9	5,661	9.1	3,460	5.6
Washington	34,253	767.5	678	9.8	375	5.4
Oregon	23,381	865.3	366	9.4	183	4.7
California	203,293	752.9	4,315	8.9	2,711	5.6
Alaska	2,090	392.9	131	10.8	76	6.2
Hawaii.....	5,874	551.5	171	9.3	115	6.3

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

NOTE: Caution should be used in comparing crude death rates by State. Death rates are affected by the population composition of the 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, 1986—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
West South Central. . .	72,813	271.0	44,132	164.3	15,316	57.0	11,737	43.7	6,039	22.5	3,721	13.9
Arkansas	9,092	383.5	5,076	214.1	1,990	83.9	1,236	52.1	604	25.5	321	13.5
Louisiana	12,743	283.2	8,056	179.1	2,580	57.3	2,017	44.8	983	21.8	640	14.2
Oklahoma	10,957	331.4	6,387	193.2	2,460	74.4	1,465	44.3	737	22.3	482	14.6
Texas.	40,021	239.8	24,613	147.5	8,286	49.6	7,019	42.1	3,715	22.3	2,278	13.6
Mountain	28,458	219.2	19,378	149.3	5,670	43.7	5,917	45.6	3,299	25.4	2,422	18.7
Montana	2,201	269.4	1,463	179.1	494	60.5	411	50.3	228	27.9	177	21.7
Idaho	2,396	239.1	1,591	158.2	594	59.3	528	52.7	271	27.0	177	17.7
Wyoming	990	195.3	645	127.2	198	39.1	262	51.7	152	30.0	97	19.1
Colorado	6,456	197.7	4,356	133.4	1,309	40.1	1,253	38.4	638	19.5	574	17.6
New Mexico	2,861	193.4	2,081	140.7	566	38.3	822	55.6	506	34.2	287	19.4
Arizona	8,138	248.2	5,828	177.7	1,440	43.9	1,647	50.2	956	29.2	632	19.3
Utah	2,956	177.6	1,638	98.4	650	39.1	604	36.3	328	19.7	245	14.7
Nevada	2,460	254.4	1,776	183.7	419	43.3	390	40.3	220	22.8	233	24.1
Pacific.	90,071	251.9	61,496	172.0	20,060	56.1	14,367	40.2	7,193	20.1	5,279	14.8
Washington	11,619	260.3	7,910	177.2	2,562	57.4	1,650	37.0	810	18.1	682	15.3
Oregon	7,854	290.7	5,260	194.7	1,912	70.8	1,236	45.7	643	23.8	451	16.7
California	68,217	252.6	46,465	172.1	15,097	55.9	10,846	40.2	5,523	20.5	3,960	14.7
Alaska	474	89.1	442	83.1	85	16.0	362	68.0	102	19.2	79	14.8
Hawaii.	1,907	179.1	1,419	133.2	404	37.9	273	25.6	115	10.8	107	10.8

NOTE: Caution should be used in comparing crude death rates by State. Death rates are affected by the population composition of the area.

Table 19. Deaths and percent distribution of 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, 1986

[For a listing of reporting States see Technical notes]

Hispanic origin, race for non-Hispanic origin, and sex	Total	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
Number													
All origins	1,031,391	20,462	4,003	4,515	20,599	30,977	38,036	58,563	137,995	233,292	275,571	206,632	746
Male	540,316	11,674	2,288	2,849	15,468	22,832	25,693	36,686	84,799	134,988	134,321	68,355	363
Female	491,075	8,788	1,715	1,666	5,131	8,145	12,343	21,877	53,196	98,304	141,250	138,277	383
Hispanic	47,604	2,882	587	552	3,114	4,213	3,802	3,996	6,668	7,853	8,667	5,206	64
Male	28,874	1,624	337	341	2,572	3,376	2,836	2,636	4,074	4,464	4,418	2,144	52
Female	18,730	1,258	250	211	542	837	966	1,360	2,594	3,389	4,249	3,062	12
Mexican	29,403	1,845	408	359	2,149	2,213	1,900	2,236	4,063	4,910	5,803	3,477	40
Male	17,801	1,030	237	219	1,826	1,808	1,395	1,462	2,459	2,835	3,055	1,443	32
Female	11,602	815	171	140	323	405	505	774	1,604	2,075	2,748	2,034	8
Puerto Rican	6,865	295	71	84	348	902	926	811	1,044	1,051	866	466	1
Male	4,224	170	39	48	258	695	710	545	645	558	392	163	1
Female	2,641	125	32	36	90	207	216	266	399	493	474	303	-
Cuban	1,610	18	3	5	35	90	95	141	289	310	392	231	1
Male	986	5	2	3	33	79	80	104	207	202	187	84	-
Female	624	13	1	2	2	11	15	37	82	108	205	147	1
Central and South American	3,096	154	30	35	249	424	372	323	382	512	402	211	2
Male	1,806	92	20	24	203	338	266	197	204	227	152	81	2
Female	1,290	62	10	11	46	86	106	126	178	285	250	130	-
Other and unknown Hispanic	6,630	570	75	69	333	584	509	485	890	1,070	1,204	821	20
Male	4,057	327	39	47	252	456	385	328	559	642	632	373	17
Female	2,573	243	36	22	81	128	124	157	331	428	572	448	3
Non-Hispanic ¹	936,449	15,917	3,171	3,691	16,265	24,887	31,913	51,393	124,444	214,690	255,640	193,953	485
Male	484,651	9,119	1,805	2,345	11,985	18,054	21,158	31,885	76,186	124,037	124,251	63,662	164
Female	451,798	6,798	1,366	1,346	4,280	6,833	10,755	19,508	48,258	90,653	131,389	130,291	321
White	800,585	10,173	2,158	2,675	12,212	17,167	22,623	38,724	102,387	185,819	228,192	178,046	409
Male	409,606	5,895	1,256	1,705	8,985	12,646	15,072	24,193	63,218	108,091	110,706	57,713	126
Female	390,979	4,278	902	970	3,227	4,521	7,551	14,531	39,169	77,728	117,486	120,333	283
Black	119,841	5,144	872	851	3,475	6,955	8,334	11,354	19,789	25,593	23,855	13,559	60
Male	65,496	2,886	471	537	2,573	4,882	5,507	6,895	11,632	13,916	11,294	4,872	31
Female	54,345	2,258	401	314	902	2,073	2,827	4,459	8,157	11,677	12,561	8,687	29
Not stated ²	47,338	1,663	245	272	1,220	1,877	2,321	3,174	6,883	10,749	11,264	7,473	197
Male	26,791	931	146	163	911	1,402	1,699	2,165	4,539	6,487	5,652	2,549	147
Female	20,547	732	99	109	309	475	622	1,009	2,344	4,262	5,612	4,924	50
Percent													
All origins	100.0	2.0	0.4	0.4	2.0	3.0	3.7	5.7	13.4	22.6	26.7	20.0	0.1
Male	100.0	2.2	0.4	0.5	2.9	4.2	4.8	6.8	15.7	25.0	24.9	12.7	0.1
Female	100.0	1.8	0.3	0.3	1.0	1.7	2.5	4.5	10.8	20.0	28.8	28.2	0.1
Hispanic	100.0	6.1	1.2	1.2	6.5	8.9	8.0	8.4	14.0	16.5	18.2	10.9	0.1
Male	100.0	5.6	1.2	1.2	8.9	11.7	9.8	9.1	14.1	15.5	15.3	7.4	0.2
Female	100.0	6.7	1.3	1.1	2.9	4.5	5.2	7.3	13.8	18.1	22.7	16.3	0.1
Mexican	100.0	6.3	1.4	1.2	7.3	7.5	6.5	7.6	13.8	16.7	19.7	11.8	0.1
Male	100.0	5.8	1.3	1.2	10.3	10.2	7.8	8.2	13.8	15.9	17.2	8.1	0.2
Female	100.0	7.0	1.5	1.2	2.8	3.5	4.4	6.7	13.8	17.9	23.7	17.5	0.1

See footnotes at end of table.

Table 19. Deaths and percent distribution of 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, 1986—Con.

[For a 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>
Percent													
Hispanic—Con.													
Puerto Rican	100.0	4.3	1.0	1.2	5.1	13.1	13.5	11.8	15.2	15.3	12.6	6.8	0.0
Male	100.0	4.0	0.9	1.1	6.1	16.5	16.8	12.9	15.3	13.2	9.3	3.9	0.0
Female	100.0	4.7	1.2	1.4	3.4	7.8	8.2	10.1	15.1	18.7	17.9	11.5	-
Cuban	100.0	1.1	0.2	0.3	2.2	5.6	5.9	8.8	18.0	19.3	24.3	14.3	0.1
Male	100.0	0.5	0.2	0.3	3.3	8.0	8.1	10.5	21.0	20.5	19.0	8.5	-
Female	100.0	2.1	0.2	0.3	0.3	1.8	2.4	5.9	13.1	17.3	32.9	23.6	0.2
Central and South American	100.0	5.0	1.0	1.1	8.0	13.7	12.0	10.4	12.3	16.5	13.0	6.8	0.1
Male	100.0	5.1	1.1	1.3	11.2	18.7	14.7	10.9	11.3	12.6	8.4	4.5	0.1
Female	100.0	4.8	0.8	0.9	3.6	6.7	8.2	9.8	13.8	22.1	19.4	10.1	-
Other and unknown Hispanic	100.0	8.6	1.1	1.0	5.0	8.8	7.7	7.3	13.4	16.1	18.2	12.4	0.3
Male	100.0	8.1	1.0	1.2	6.2	11.2	9.5	8.1	13.8	15.8	15.6	9.2	0.4
Female	100.0	9.4	1.4	0.9	3.1	5.0	4.8	6.1	12.9	16.6	22.2	17.4	0.1
Non-Hispanic ¹	100.0	1.7	0.3	0.4	1.7	2.7	3.4	5.5	13.3	22.9	27.3	20.7	0.1
Male	100.0	1.9	0.4	0.5	2.5	3.7	4.4	6.6	15.7	25.6	25.6	13.1	0.0
Female	100.0	1.5	0.3	0.3	0.9	1.5	2.4	4.3	10.7	20.1	29.1	28.8	0.1
White	100.0	1.3	0.3	0.3	1.5	2.1	2.8	4.8	12.8	23.2	28.5	22.2	0.1
Male	100.0	1.4	0.3	0.4	2.2	3.1	3.7	5.9	15.4	26.4	27.0	14.1	0.0
Female	100.0	1.1	0.2	0.2	0.8	1.2	1.9	3.7	10.0	19.9	30.0	30.8	0.1
Black	100.0	4.3	0.7	0.7	2.9	5.8	7.0	9.5	16.5	21.4	19.9	11.3	0.1
Male	100.0	4.4	0.7	0.8	3.9	7.5	8.4	10.5	17.8	21.2	17.2	7.4	0.0
Female	100.0	4.2	0.7	0.6	1.7	3.8	5.2	8.2	15.0	21.5	23.1	16.0	0.1
Not stated ²	100.0	3.5	0.5	0.6	2.6	4.0	4.9	6.7	14.5	22.7	23.8	15.8	0.4
Male	100.0	3.5	0.5	0.6	3.4	5.2	6.3	8.1	16.9	24.2	21.1	9.5	0.5
Female	100.0	3.6	0.5	0.5	1.5	2.3	3.0	4.9	11.4	20.7	27.3	24.0	0.2

¹Includes races other than white and black.

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

Table 20. 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, 1986

[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 ³
		Total	Mexican	Puerto Rican	Cuban	Other Hispanic ¹	Total ²	White	Black	
Number										
Under 1 year.....	20,462	2,882	1,845	295	18	724	15,917	10,173	5,144	1,663
Under 28 days.....	13,218	1,902	1,200	181	13	508	10,055	6,497	3,194	1,261
28 days-11 months.....	7,244	980	645	114	5	216	5,862	3,676	1,950	402
Rate										
Under 1 year.....	⁴ 10.2	8.0	7.7	8.6	5.5	9.1	10.0	8.6	16.9	...
Under 28 days.....	⁴ 6.6	5.3	5.0	5.3	3.9	6.4	6.3	5.5	10.5	...
28 days-11 months.....	⁴ 3.6	2.7	2.7	3.3	1.5	2.7	3.7	3.1	6.4	...

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

²Includes races other than white and black.

³Includes infant deaths that occurred in States that did not report Hispanic origin on the death certificate.

⁴Figures for origin not stated included in All origins but not distributed among origin groups.

Table 21. Number of autopsies and percent of deaths for which autopsies were reported for 15 leading causes of death: United States, 1986

Rank order	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Total deaths	Reported autopsy	
			Number	Percent
...	All causes.....	2,105,361	257,890	12.2
1	Diseases of heart..... 390-398,402,404-429	765,490	63,322	8.3
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	469,376	23,376	5.0
3	Cerebrovascular diseases..... 430-438	149,643	6,158	4.1
4	Accidents and adverse effects..... E800-E949	95,277	45,959	48.2
...	Motor vehicle accidents..... E810-E825	47,865	23,801	49.7
...	All other accidents and adverse effects..... E800-E807,E826-E949	47,412	22,158	46.7
5	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	76,559	4,398	5.7
6	Pneumonia and influenza..... 480-487	69,812	6,867	9.8
7	Diabetes mellitus..... 250	37,184	1,928	5.2
8	Suicide..... E950-E959	30,904	15,767	51.0
9	Chronic liver disease and cirrhosis..... 571	26,159	5,389	20.6
10	Atherosclerosis..... 440	22,706	688	3.0
11	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	21,767	1,406	6.5
12	Homicide and legal intervention..... E960-E978	21,731	20,871	96.0
13	Septicemia..... 038	18,795	2,025	10.8
14	Certain conditions originating in the perinatal period..... 760-779	18,391	5,051	27.5
15	Congenital anomalies..... 740-759	12,638	5,339	42.2
...	All other causes..... Residual	268,929	49,346	18.3

Table 22. Deaths and percent distribution of deaths, by marital status according to race and sex: United States, 1986

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	2,049,203	1,071,483	977,720	1,791,619	929,542	862,077	257,584	141,941	115,643	235,339	128,694	106,645
Never married.....	210,610	128,899	81,711	169,835	100,524	69,311	40,775	28,375	12,400	37,676	25,974	11,702
Ever married.....	1,828,422	935,240	893,182	1,614,719	823,935	790,784	213,703	111,305	102,398	194,760	100,612	94,148
Married.....	926,113	656,038	270,075	823,444	584,787	238,657	102,669	71,251	31,418	91,530	63,447	28,083
Widowed.....	750,027	189,900	560,127	663,787	164,898	498,889	86,240	25,002	61,238	80,057	23,155	56,902
Divorced.....	152,282	89,302	62,980	127,488	74,250	53,238	24,794	15,052	9,742	23,173	14,010	9,163
Not stated.....	10,171	7,344	2,827	7,065	5,083	1,982	3,106	2,261	845	2,903	2,108	795
	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	12.1	8.4	9.5	10.9	8.1	16.0	20.3	10.8	16.2	20.5	11.1
Ever married.....	89.7	87.9	91.7	90.5	89.1	91.9	84.0	79.7	89.2	83.8	79.5	88.9
Married.....	45.4	61.6	27.7	46.1	63.3	27.7	40.3	51.0	27.4	39.4	50.1	26.5
Widowed.....	36.8	17.8	57.5	37.2	17.8	58.0	33.9	17.9	53.3	34.4	18.3	53.8
Divorced.....	7.5	8.4	6.5	7.1	8.0	6.2	9.7	10.8	8.5	10.0	11.1	8.7

Table 23. Deaths and death rates from 16 selected subcategories of Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, by race and sex: United States, 1986

[Rates per 100,000 population in specified group]

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
	Number											
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues ¹ 140-208	469,376	250,559	218,817	412,352	218,381	193,971	57,024	32,178	24,846	51,979	29,363	22,616
Malignant neoplasm of esophagus 150	8,918	6,535	2,383	6,786	4,946	1,840	2,132	1,589	543	2,060	1,536	524
Malignant neoplasm of stomach 151	13,855	8,400	5,455	11,274	6,831	4,443	2,581	1,569	1,012	2,118	1,305	813
Malignant neoplasms of colon, rectum, recto-sigmoid junction, and anus 153,154	55,816	27,469	28,347	49,842	24,593	25,249	5,974	2,876	3,098	5,441	2,564	2,877
Malignant neoplasm of pancreas 157	23,458	11,403	12,055	20,470	9,974	10,496	2,988	1,429	1,559	2,740	1,294	1,446
Malignant neoplasms of trachea, bronchus, and lung 162	125,522	85,057	40,465	111,049	74,517	36,532	14,473	10,540	3,933	13,354	9,773	3,581
Malignant melanoma of skin 172	5,673	3,378	2,295	5,565	3,315	2,250	108	63	45	91	56	35
Malignant neoplasm of cervix uteri 180	4,558	...	4,558	3,391	...	3,391	1,167	...	1,167	1,067	...	1,067
Malignant neoplasms of body of uterus and of uterus, part unspecified 179,182	5,853	...	5,853	4,968	...	4,968	885	...	885	835	...	835
Malignant neoplasm of ovary 183.0	11,729	...	11,729	10,751	...	10,751	978	...	978	855	...	855
Malignant neoplasm of prostate 185	27,262	27,262	...	22,708	22,708	...	4,554	4,554	...	4,358	4,358	...
Malignant neoplasm of bladder 188	9,655	6,523	3,132	8,849	6,093	2,756	806	430	376	752	397	355
Malignant neoplasms of kidney and other and unspecified urinary organs 189	9,458	5,630	3,828	8,586	5,125	3,461	872	505	367	784	458	326
Malignant neoplasms of brain and other and unspecified parts of nervous system . . . 191,192	10,322	5,669	4,653	9,605	5,288	4,317	717	381	336	616	328	288
Hodgkin's disease 201	1,828	1,069	759	1,659	972	687	169	97	72	155	91	64
Malignant lymphoma other than Hodgkin's disease 200,202	16,351	8,485	7,866	15,178	7,795	7,383	1,173	690	483	1,006	576	430
Multiple myeloma and other immunoproliferative neoplasms 203	7,987	4,032	3,955	6,556	3,299	3,257	1,431	733	698	1,352	686	666
	Rate											
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues ¹ 140-208	194.7	213.5	176.9	201.8	218.8	185.6	155.0	183.3	129.2	177.4	211.4	146.7
Malignant neoplasm of esophagus 150	3.7	5.6	1.9	3.3	5.0	1.8	5.8	9.1	2.8	7.0	11.1	3.4
Malignant neoplasm of stomach 151	5.7	7.2	4.4	5.5	6.8	4.3	7.0	8.9	5.3	7.2	9.4	5.3
Malignant neoplasms of colon, rectum, recto-sigmoid junction, and anus 153,154	23.2	23.4	22.9	24.4	24.6	24.2	16.2	16.4	16.1	18.6	18.5	18.7
Malignant neoplasm of pancreas 157	9.7	9.7	9.7	10.0	10.0	10.0	8.1	8.1	8.1	9.3	9.3	9.4
Malignant neoplasms of trachea, bronchus, and lung 162	52.1	72.5	32.7	54.4	74.7	35.0	39.3	60.0	20.5	45.6	70.3	23.2
Malignant melanoma of skin 172	2.4	2.9	1.9	2.7	3.3	2.2	0.3	0.4	0.2	0.3	0.4	0.2
Malignant neoplasm of cervix uteri 180	1.9	...	3.7	1.7	...	3.2	3.2	...	6.1	3.6	...	6.9
Malignant neoplasms of body of uterus and of uterus, part unspecified 179,182	2.4	...	4.7	2.4	...	4.8	2.4	...	4.6	2.8	...	5.4

See footnote at end of table.

Table 23. Deaths and death rates from 16 selected subcategories of Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, by race and sex: United States, 1986—Con.

[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	Male	Female	Both sexes	Male	Female	Total			Black			
							Both sexes	Male	Female	Both sexes	Male	Female	
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues—Con.													
Malignant neoplasm of ovary 183.0	4.9	...	9.5	5.3	...	10.3	2.7	...	5.1	2.9	...	5.5	
Malignant neoplasm of prostate 185	11.3	23.2	...	11.1	22.8	...	12.4	25.9	...	14.9	31.4	...	
Malignant neoplasm of bladder 188	4.0	5.6	2.5	4.3	6.1	2.6	2.2	2.4	2.0	2.6	2.9	2.3	
Malignant neoplasms of kidney and other and unspecified urinary organs 189	3.9	4.8	3.1	4.2	5.1	3.3	2.4	2.9	1.9	2.7	3.3	2.1	
Malignant neoplasms of brain and other and unspecified parts of nervous system. . . 191,192	4.3	4.8	3.8	4.7	5.3	4.1	1.9	2.2	1.7	2.1	2.4	1.9	
Hodgkin's disease 201	0.8	0.9	0.6	0.8	1.0	0.7	0.5	0.6	0.4	0.5	0.7	0.4	
Malignant lymphoma other than Hodgkin's disease 200,202	6.8	7.2	6.4	7.4	7.8	7.1	3.2	3.9	2.5	3.4	4.1	2.8	
Multiple myeloma and other immuno-proliferative neoplasms. 203	3.3	3.4	3.2	3.2	3.3	3.1	3.9	4.2	3.6	4.6	4.9	4.3	

¹Includes figures for subcategories not shown.

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 1986 all the States and the District of Columbia participated in this program and submitted part or all of the mortality data for 1986 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 1986 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 1979–86 were classified according to the Ninth Revision International Classification of Diseases (World Health Organization, 1977). 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 (NCHS, 1965, 1975, 1980).

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* (NCHS, published annually).

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.

AIDS—The above discussion of cause-of-death information reported on death certificates is especially useful in interpreting mortality statistics relating to the category Deficiency of cell-mediated immunity (ICD No. 279.1). In 1986, acquired immunodeficiency syndrome (AIDS) and human immunodeficiency virus (HIV) infection, when reported on the death certificate, were assigned to this category, as were other diseases classifiable as deficiency of cell-mediated immunity. The category ICD No. 279.1 was selected as the underlying cause of death in 1986 for a total of 5,822 death certificates. On an additional 5,078 death certificates, conditions classifiable to category ICD No. 279.1 were reported, but ICD rules gave preference to other categories (for example, Pneumocystosis, ICD-9 No. 136.3) in selecting the underlying cause of death.

The WHO selection rules for underlying cause of death were developed prior to the identification of AIDS in 1981, and these rules often select categories other than ICD No. 279.1 as the underlying cause. Although ICD No. 279.1 was used to code other conditions classifiable as deficiency of cell-mediated immunity, it is believed that HIV infection was involved in most of the 10,900 deaths where conditions classifiable to ICD No. 279.1 were reported, irrespective of whether ICD No. 279.1 was selected as the underlying cause of death. The categories and rules for classifying HIV infection as reported on the death certificate have been revised and were implemented with deaths occurring in 1987. It may be noted that as of June 6, 1988, the Centers for Disease Control received reports of 9,676 deaths due to AIDS in the United States for 1986; this figure may underestimate true mortality by 10–30 percent (Centers for Disease Control, 1988).

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

NOTE: A list of references follows the text.

the population residing in the specified area. Death rates for 1986 are based on population estimates as of July 1, 1986 (U.S. Bureau of the Census, 1988). 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 (1982a).

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

Infant mortality rates shown in figure 5 and tables E, 13, 14, 15, 17, and 20 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, and 9 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 midyear 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, and 21 are based on the List of 72 Selected Causes of Death; the cause-of-death ranking for infants in table 14 is based on the List of 61 Selected Causes of Infant Death.

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).

NOTE: A list of references follows the text.

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 (95-percent confidence interval) that

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

covers the "true" number of events.

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

covers the "true" rate.

If the rate R corresponding to N events is compared with the rate S corresponding to M events, the difference between the two rates may be regarded as statistically significant if it exceeds

$$2\sqrt{\frac{R^2}{N} + \frac{S^2}{M}}$$

Additional information on random variation may be found in the Technical Appendix of *Vital Statistics of the United States*, Volume II, Mortality, Part A, 1985.

Infant and maternal mortality rates—Comparisons made in the text between infant, neonatal, postneonatal, and maternal mortality rates, unless otherwise specified, have passed the hypothesis test 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.

Life tables

U.S. abridged life tables are constructed by reference to a standard life table (NCHS, 1966).

Hispanic origin

For 1986 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 1986 the percent of infant deaths of unknown origin was 8.1 percent and the percent of live births of unknown origin was 3.1 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 (U.S. Bureau of the Census, 1982b). 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 unknown marital status were subtracted from figures for total deaths used as denominators before percent distributions were computed.

This report presents summary tabulations from the final mortality statistics for 1986. More detailed tabulations for 1986 will be published in *Vital Statistics of the United States, 1986, 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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