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nchs MONTHLY VITAL STATISTICS REPORT

Final Data From the National Center for Health Statistics

Vol. 35, No. 6, Supplement (2) • September 26, 1986

Advance Report of Final Mortality Statistics, 1984

Highlights

In 1984 a total of 2,039,369 deaths were registered in the United States, 20,168 more than in 1983 and the largest annual number ever recorded. Contributing to the increased number of deaths were the continued increase in the size of the population and also the "aging" of the United States population, that is, the increasing proportion of older people. The death rate for 1984 was 862.3 deaths per 100,000 population, essentially the same as the rate of 862.8 in 1983. The death rates for both 1983 and 1984, years with influenza outbreaks and elevated influenza mortality, were higher than the rate for 1982, when influenza mortality was not elevated. Provisional data for 1985 show a higher death rate (874.8) than in the previous two years, again reflecting increased levels of influenza mortality.

In contrast, the age-adjusted death rate, which eliminates the effects of the aging of the population, declined somewhat from 550.5 in 1983 to 545.9 in 1984, the lowest level ever reported in the United States. In 1984 life expectancy at birth was slightly higher than in 1983 and reached a record high of 74.7 years. Although the difference in life expectancy for males and females has narrowed, women are still expected to outlive men by an average of 7.0 years. The difference in life expectancy between the white and black populations has also been narrowing; however, the difference in 1984 (5.6 years higher for the white population) was the same as in 1983.

Continuing to account for almost three out of four deaths in the United States were the first four leading causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (cancer); Cerebrovascular diseases (stroke); and Accidents and adverse effects. The age-adjusted death rates for three of these four major causes declined between 1983 and 1984. The age-adjusted rate for Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues, increased, however. Although the rate for the broad category Accidents and adverse effects de-

creased (less than 1 percent) between 1983 and 1984, the rate for Motor vehicle accidents—a component of the broader category—increased 3 percent, a reversal of the decline observed between 1979 and 1983. Provisional data for 1985, however, indicate a decline in the rate for Motor vehicle accidents to about the same level as reported for 1983. Mortality from Septicemia, the 14th leading cause of death, continued to increase more rapidly than any of the other 15 leading causes.

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 3.6 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 11 of the 15 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 5.4 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 was at a record low in 1984 (10.8 infant deaths per 1,000 live births). The rates for both black and white infants declined between 1983 and 1984—by 4 and 3 percent, respectively. For both the white and the black populations, the downward trend in infant mortality has slowed in recent years. Between 1983 and 1984, neonatal mortality rates declined 5 percent for black infants and 3 percent for white infants. For white infants the postneonatal mortality rate in 1984 remained the same as in the previous two years; for black infants, the rate declined between 1983 and 1984 after an increase between 1982 and 1983.

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 incorporate new net migra-

tion and net undocumented immigration estimates, the 1984 death rates 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 between 1983 and 1984 for certain age-race-sex subgroups. For further discussion see the Technical notes.

In 1984 a total of 2,039,369 deaths occurred in the United States, 20,168 more than in 1983 and the largest number ever recorded. Contributing to the increased number of deaths were the continued increase in the size of the population as well as the increasing proportion of older persons in the population. The death rate for 1984, 862.3 deaths per 100,000 population, was essentially the same as the rate in 1983 (862.8). The death rates for 1983 and 1984, years associated with mortality from influenza outbreaks, were higher than the rate for 1982 when influenza mortality was not elevated.^{1,2} The provisional mortality rate for 1985 was 874.8, again elevated because of mortality associated with influenza outbreaks.³

The age-adjusted death rate decreased to 545.9 in 1984, down from 550.5 deaths per 100,000 population in 1983. The decrease in 1984 continues the long-term downward trend in the risk of mortality in the United States, bringing the age-adjusted rate to a record low (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 in 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 1983 and 1984 (figure 2 and table A). They declined for the age groups under 1 year, 1-4 years, and each 10-year age group between ages 45 and 84, with the largest decline (7 percent) occurring in the age group 1-4 years. The increase shown for ages 85 years and over is due to

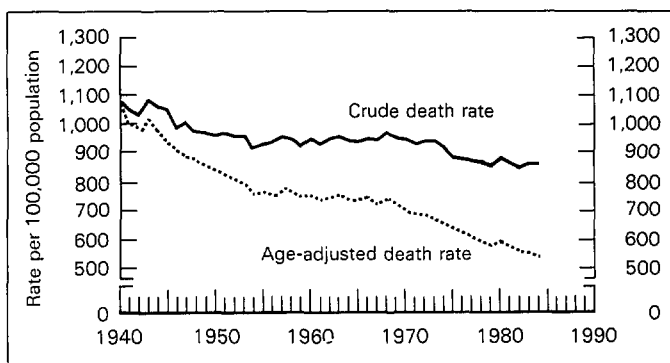


Figure 1. Crude and age-adjusted death rates: United States, 1940-84

inconsistent population estimates. Had consistent population estimates been used in computing the 1983 and 1984 death rates for this age group, a decrease would have been shown. For further discussion of the 1984 population estimates used in this report, see the Technical notes. For the other age groups, changes in death rates between 1983 and 1984 were very small.

For males the increase between 1983 and 1984 for ages 35-44 years was in contrast to the declining trend for this age group since the late 1960's. For females in the age groups under 1 year, 1-4 years, 25-34 years, 45-54, 55-64, and 75-84, death rates declined between 1983 and 1984. This pattern is consistent with the generally downward trends in age-specific rates for females observed since 1950. For the remaining groups, except 85 years and over, death rates changed very little between these two years. For the oldest group of men and of women, those aged 85 years and over, declines would have been shown between 1983 and 1984 had consistent population estimates been used in computing the 1983 and 1984 death rates.

Between 1983 and 1984, age-adjusted death rates for both the white and black populations decreased by about 1 percent. For the black population age-adjusted death rates decreased by about the same amount (1 percent) for males and females, whereas for the white population the decline in age-adjusted rates for males was greater than for females. In 1984 the age-adjusted death rate for males of all races was 1.7 times that for females, about the same as in 1983. This ratio between male and female age-adjusted death rates was about the same for the white and the black populations. As in 1983 the age-adjusted death rate for the black population was 1.5 times that for the white population in 1984.

Expectation of life at birth and at specified ages

In 1984 the average expectation of life at birth reached a record high of 74.7 years (figure 3). This continued the general upward trend in life expectancy in the United States interrupted most recently in 1980, a year with high mortality associated with influenza outbreaks.

The expectation of life at birth for 1984 represents the average number of years that a group of infants would live if they were to experience throughout life the age-specific death rates prevailing in 1984. In 1984 life expectancy for females was 78.2 years compared with 71.2 years for males, both having increased from levels for the previous year. 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 1984 compared with 7.4 years in 1981 and 1980, 7.7 and 7.8 years throughout the period 1972-79, 6.5 years in 1960, and 2.0 years in 1900.

Between 1983 and 1984 both the white and the black populations experienced an increase in life expectancy, to 75.7 years and 69.7 years, respectively, in 1984. In 1970 life expectancy for the white population was 71.7 years, and that for

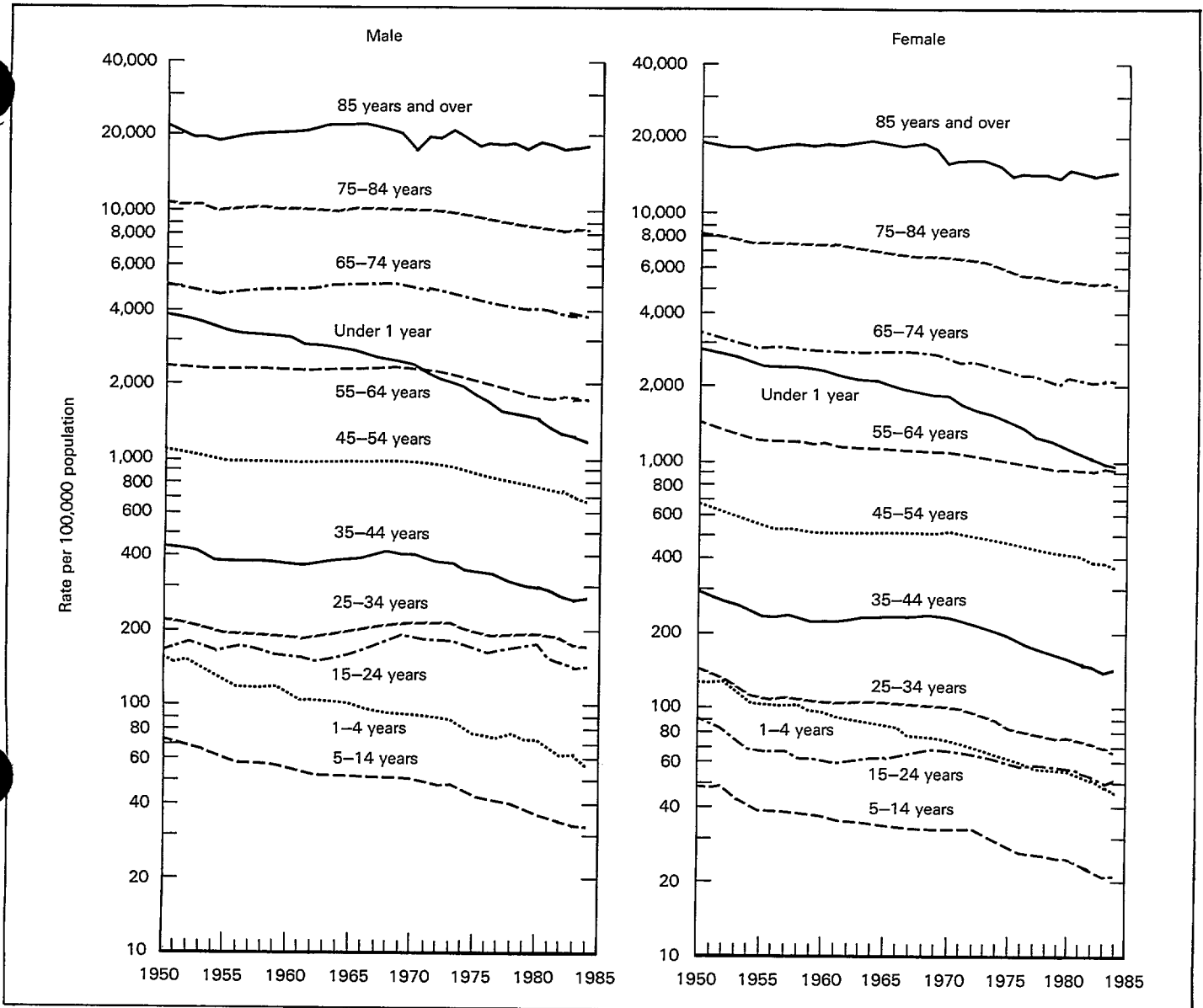


Figure 2. Death rates by age and sex: United States, 1950-84

the black population was 64.1 years. The difference in life expectancy between the white and black populations thus narrowed from 7.6 years in 1970 to 5.6 years in both 1983 and 1984.

Among the race-sex groups, white females continued to have the highest life expectancy at birth (78.7 years), followed by black females (73.7 years), white males (71.8 years), and black males (65.6 years). The largest gain in life expectancy between 1970 and 1984 was for black males (5.6 years), followed by black females (5.4 years), white males (3.8 years), and white females (3.1 years).

The 1984 life tables shown in this report may be used to compare life expectancies at any age from birth onward. For example, a person who has reached age 65 years may look forward to living to an older age, on the average, than one who

has reached age 50 years. On the basis of mortality experienced in 1984, a person aged 50 years could expect to live an average of 28.4 more years for a total of 78.4 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.

Causes of death

Deaths assigned to the 15 leading causes accounted for 88 percent of the total number of deaths in 1984 (table B). (For ranking procedures see Technical notes.) The ranking of the leading causes for 1984 changed slightly from the list based on data for 1983. Because of an increase in the number of deaths for Nephritis, nephrotic syndrome, and nephrosis, and decreases for Homicide and legal intervention and for Certain

Table A. Percent change in death rates between 1983 and 1984 by age and sex: United States

Age	Total	Male	Female
	Percent change ¹		
All ages.....	-0.1	-0.7	+0.7
Under 1 year ²	-2.0	-2.1	-1.8
1-4 years.....	-7.2	-10.0	-3.7
5-14 years.....	-0.5	-1.2	+0.5
15-24 years.....	+0.8	+0.9	+0.8
25-34 years.....	-0.2	-0.4	-0.6
35-44 years.....	+1.4	+1.7	+0.9
45-54 years.....	-2.7	-2.6	-3.0
55-64 years.....	-0.9	-1.2	-0.6
65-74 years.....	-0.9	-1.9	+0.2
75-84 years.....	-0.7	-1.1	-0.2
85 years and over.....	+0.4	+0.8	+0.3

¹Caution should be used in interpreting percent changes, because rates for 1983 and 1984 are based on population estimates that are not strictly comparable (see text and Technical notes).

²Death rates under 1 year (based on population estimates) differ from mortality rates (based on live births); see table E for 1984 infant mortality rates, and Technical notes for further discussion of the difference.

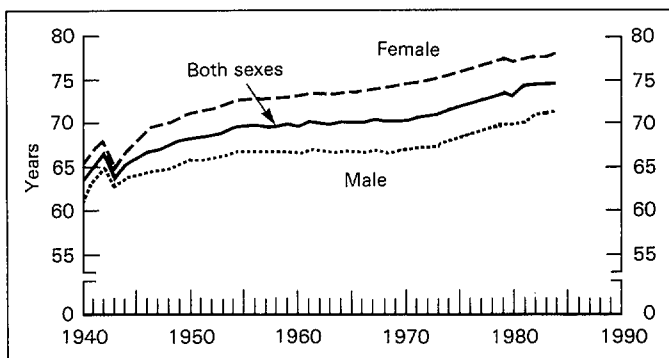


Figure 3. Life expectancy by sex: United States, 1940-84

conditions originating in the perinatal period, the relative ranks of these causes changed. Nephritis, nephrotic syndrome, and nephrosis increased in rank from 13th in 1983 to 11th in 1984. The ranks for Homicide and legal intervention and for Certain conditions originating in the perinatal period decreased from 11th and 12th in 1983 to 12th and 13th, respectively, in 1984. 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 7 of these 13 leading causes of death the age-adjusted death rates decreased between 1983 and 1984 (table C). These causes were Diseases of heart, Cerebrovascular diseases, Accidents and adverse effects, Diabetes mellitus, Chronic liver disease and cirrhosis, Atherosclerosis, and Homicide and legal intervention. The largest decline was for Atherosclerosis (9 percent) followed by Diabetes mellitus (4 percent). The de-

Table B. Death rates and percent of total deaths for the 15 leading causes of death: United States, 1984

[Rates per 100,000 population]

Rank ¹	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Rate	Percent of total deaths
...	All causes.....	862.3	100.0
1	Diseases of heart.....	323.5	37.5
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues.....	191.8	22.2
3	Cerebrovascular diseases.....	65.3	7.6
4	Accidents and adverse effects.....	39.3	4.6
...	Motor vehicle accidents.....	19.6	...
...	All other accidents and adverse effects.....	19.7	...
5	Chronic obstructive pulmonary diseases and allied conditions.....	29.2	3.4
6	Pneumonia and influenza.....	24.9	2.9
7	Diabetes mellitus.....	15.1	1.8
8	Suicide.....	12.4	1.4
9	Chronic liver disease and cirrhosis.....	11.6	1.3
10	Atherosclerosis.....	10.3	1.2
11	Nephritis, nephrotic syndrome, and nephrosis.....	8.5	1.0
12	Homicide and legal intervention.....	8.4	1.0
13	Certain conditions originating in the perinatal period.....	8.0	0.9
14	Septicemia.....	6.4	0.7
15	Congenital anomalies.....	5.5	0.6
...	All other causes.....	102.1	11.9

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

cline for Atherosclerosis is consistent with the generally downward trend observed since 1950. The rate for diabetes, however, has been fluctuating since 1978 after a decade of decline from 1968-78. Decreases for the other five leading causes were 3 percent or less. Although the rates for the broad category Accidents and adverse effects decreased slightly (less than 1 percent) between the two years, the rate for Motor vehicle accidents—a component of the broader category—increased 3 percent between 1983 and 1984, a reversal of the decline observed between 1979 and 1983. Provisional data for 1985, however, indicate a decline in the rate for Motor vehicle accidents to about the same level as reported for 1983.

Increases in the age-adjusted death rates between 1983 and 1984 occurred for six causes—Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Chronic obstructive pulmonary diseases and allied conditions; Pneumonia and influenza; Suicide; Nephritis, nephrotic syndrome, and nephrosis; and Septicemia. For Septicemia the increase of 9 percent continued the rapid rise observed for the past three decades (figure 4). Because influenza outbreaks occurred in both 1983 and 1984, mortality from Pneumonia and influenza increased only 3 percent from 1983 to 1984, whereas the increase from 1982, a year without elevated influenza mortality, to 1984 was 12 percent. Increased mortality from a number of causes of death has been observed during periods characterized by influenza outbreaks. For one such

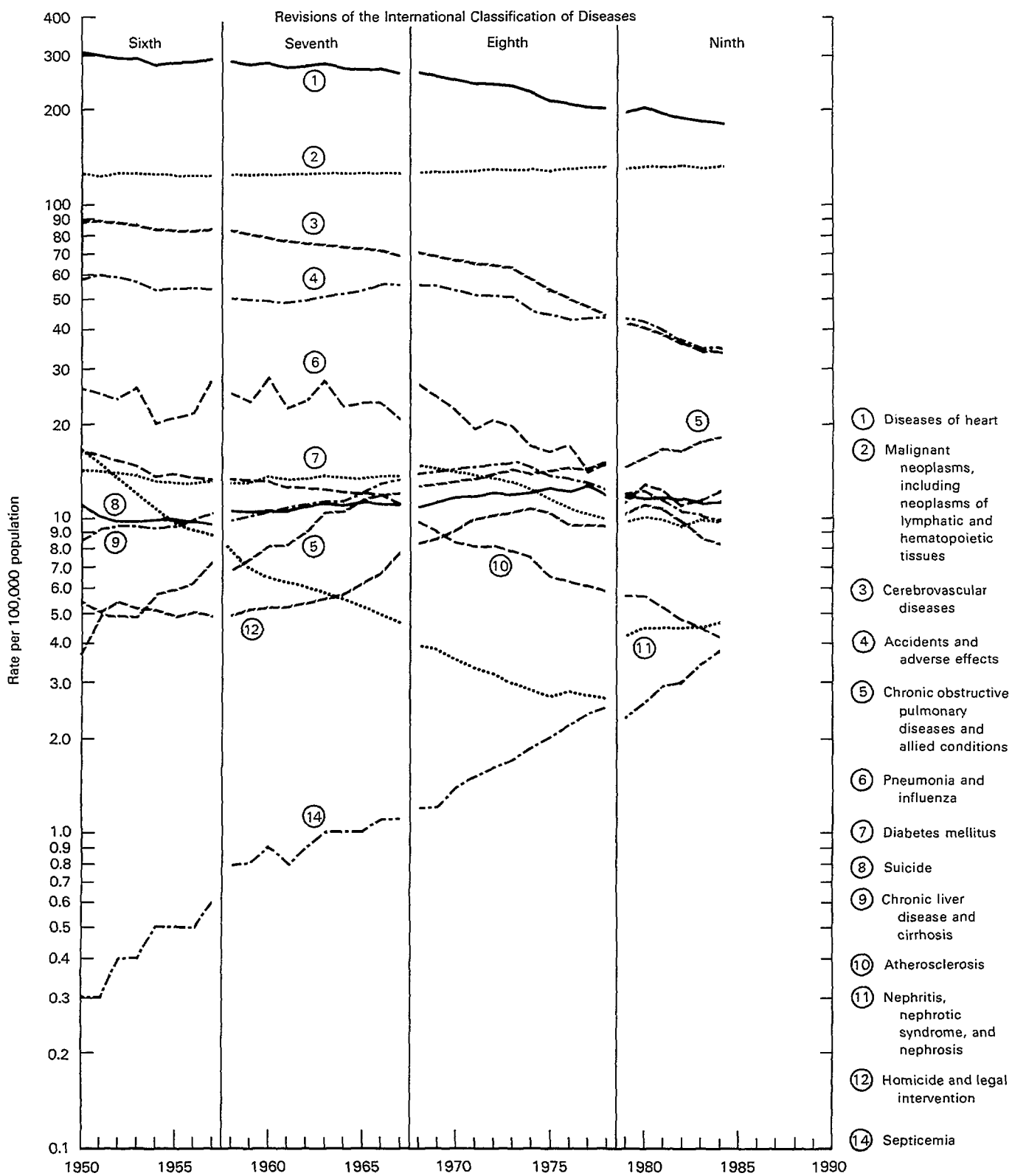


Figure 4. Age-adjusted death rates for 13 of the 15 leading causes of death: United States, 1950-84

Table C. Age-adjusted death rates for 1984 and percent changes in age-adjusted death rates for the 15 leading causes of death from 1983 to 1984 and 1979 to 1984: United States

[Rates per 100,000 population]

Rank ¹	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Age-adjusted death rates for 1984	Percent change from—	
			1983 to 1984	1979 to 1984
...	All causes	545.9	-0.8	-5.4
1	Diseases of heart	183.6	-2.8	-8.0
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	133.5	+0.7	+2.1
3	Cerebrovascular diseases	33.4	-2.9	-19.7
4	Accidents and adverse effects	35.0	-0.8	-18.4
...	Motor vehicle accidents	19.1	+3.2	-17.7
...	All other accidents and adverse effects	15.9	-5.4	-18.9
5	Chronic obstructive pulmonary diseases and allied conditions	17.7	+1.7	+21.2
6	Pneumonia and influenza	12.2	+3.4	+8.9
7	Diabetes mellitus	9.5	-4.0	-3.1
8	Suicide	11.6	+1.8	-0.9
9	Chronic liver disease and cirrhosis	10.0	-2.0	-16.7
10	Atherosclerosis	4.2	-8.7	-26.3
11	Nephritis, nephrotic syndrome, and nephrosis	4.7	+2.2	+9.3
12	Homicide and legal intervention	8.4	-2.3	-17.6
13	Certain conditions originating in the perinatal period ²	...	-3.3	-23.7
14	Septicemia	3.7	+8.8	+60.9
15	Congenital anomalies ²	...	-2.9	-8.8

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.

cause, Chronic obstructive pulmonary diseases and allied conditions, the age-adjusted death rate increased 2 percent between 1983 and 1984, but increased 9 percent between 1982 and 1984. Increases for the remaining three leading causes were 2 percent or less. The increases between 1983 and 1984 for four of these six causes (all but Pneumonia and influenza and Suicide) are consistent with a continuation of recent increasing trends for these causes of death. The absence of a clear trend in age-adjusted death rates for Pneumonia and influenza in recent years is in contrast to the general decline in mortality for this cause from 1968-78. The rate for Suicide has remained within a narrow range of 11.4-11.6 since 1980.

Mortality levels for each of the 15 leading causes of death were higher for males than for females (table D). The largest differentials were for violent and accidental causes of death. Specifically, the age-adjusted death rates for Suicide and for Homicide and legal intervention were 3.6 and 3.3 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 decreased slightly (less than 1 percent) between 1983 and 1984, reflecting 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. Decreases for these five causes were of sufficient magnitude to more than offset in-

Table D. Ratio of age-adjusted death rates for the 15 leading causes of death, by sex and race: United States, 1984

Rank ¹	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Ratio of—	
		Male to female	Black to white
...	All causes	1.75	1.47
1	Diseases of heart	1.95	1.31
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	1.48	1.34
3	Cerebrovascular diseases	1.17	1.82
4	Accidents and adverse effects	2.80	1.17
...	Motor vehicle accidents	2.67	0.85
...	All other accidents and adverse effects	2.96	1.59
5	Chronic obstructive pulmonary diseases and allied conditions	2.37	0.78
6	Pneumonia and influenza	1.84	1.48
7	Diabetes mellitus	1.07	2.27
8	Suicide	3.60	0.52
9	Chronic liver disease and cirrhosis	2.20	1.70
10	Atherosclerosis	1.30	1.00
11	Nephritis, nephrotic syndrome, and nephrosis	1.54	2.73
12	Homicide and legal intervention	3.33	5.36
13	Certain conditions originating in the perinatal period ²	1.23	2.38
14	Septicemia	1.38	2.78
15	Congenital anomalies ²	1.10	1.00

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.

creases in rates for other leading causes of death among which were Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Chronic obstructive pulmonary diseases and allied conditions; Pneumonia and influenza; Homicide and legal intervention; and Septicemia. Of the 15 leading causes of death, Septicemia had the largest increase in mortality between 1983 and 1984; for women the age-adjusted rate from this cause increased 14 percent compared with 7 percent for men. The small increase for Homicide and legal intervention for women is in contrast to the decline observed since 1980.

For men the age-adjusted death rate for all causes combined decreased by 1 percent between 1983 and 1984, but rates for some leading causes increased. The largest increase was for Septicemia (7 percent); followed by Nephritis, nephrotic syndrome, and nephrosis (5 percent); Pneumonia and influenza (3 percent); and Suicide (3 percent). The increase for Suicide for men, which is consistent with a recent upward trend, is in contrast to the general decline in mortality from this cause since the early 1970's for women. Although the age-adjusted death rate for Accidents and adverse effects did not change for women and increased only slightly for men, the rates for the component of this cause—Motor vehicle accidents—increased 5 percent for women and 2 percent for men.

Mortality was higher for the black population than for the white population for 11 of the 15 leading causes. The largest differential was for Homicide and legal intervention, where the age-adjusted rate for the black population was 5.4 times that of the white population. Other causes for which the differential was large include Septicemia, with a black-to-white ratio of 2.8; Nephritis, nephrotic syndrome, and nephrosis (2.7); Certain conditions originating in the perinatal period (2.4); and Diabetes mellitus (2.3). 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.

AIDS—A count of deaths due specifically to acquired immune deficiency syndrome (as a result of human T-cell lymphotropic virus-III/lymphadenopathy-associated virus in-

fection) is not available from the 1984 national mortality statistics system. However, related data have been derived from information reported on death certificates in 1984, as described in the Technical notes.

Infant mortality

In 1984 there were 39,580 deaths of infants under 1 year of age (table E). The infant mortality rate of 10.8 infant deaths per 1,000 live births was the lowest rate ever recorded for the United States. The rate declined 4 percent from the level of 11.2 in 1983. Among white infants, the mortality rate (per 1,000 live births) decreased 3 percent, from 9.7 in 1983 to 9.4 in 1984; and for black infants the rate decreased 4 percent, from 19.2 in 1983 to 18.4 in 1984.

The absolute difference in infant mortality rates between black and white infants has been narrowing; in 1960 the difference in rates was 21.4 infant deaths per 1,000 live births compared with 9.0 in 1984 (figure 5). However, because the infant mortality rate for both the white and black populations has been decreasing by the same average annual percent (3.6 percent per year) between 1960 and 1984, the black infant mortality rate in 1984 was 1.96 times the white rate, about the same ratio as in 1960 (1.93). The downward trend in infant mortality has slowed for both the white and black populations—since the late 1970's, for white infants; and since 1981, for black infants.

Between 1983 and 1984 the neonatal mortality rate decreased 4 percent, from 7.3 to 7.0 deaths to infants under 28 days per 1,000 live births. By race, the rate declined 3 and 5 percent for the white and the black populations, respectively. Since 1960, neonatal mortality rates for the white population have declined relatively faster than for the black population—an average of 4.2 percent per year for white infants compared with 3.5 percent for black infants.

The postneonatal mortality rate—deaths to infants 28 days-11 months per 1,000 live births—for 1984 was 3.8, 3 percent lower than in 1983 (3.9) but the same as in 1982. For

Table E. Infant, neonatal, and postneonatal deaths and mortality rates by race and sex: United States, 1984

[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	39,580	1,078.7	25,691	700.2	13,889	378.5
Male	22,359	1,189.6	14,400	766.2	7,959	423.5
Female	17,221	962.3	11,291	630.9	5,930	331.3
White	27,608	944.3	18,058	617.7	9,550	326.7
Male	15,805	1,053.4	10,240	682.5	5,565	370.9
Female	11,803	829.3	7,818	549.3	3,985	280.0
All other	11,972	1,605.6	7,633	1,023.7	4,339	581.9
Male	6,554	1,728.5	4,160	1,097.2	2,394	631.4
Female	5,418	1,478.4	3,473	947.7	1,945	530.7
Black	10,881	1,835.7	7,002	1,181.3	3,879	654.4
Male	5,961	1,980.7	3,811	1,266.3	2,150	714.4
Female	4,920	1,686.1	3,191	1,093.6	1,729	592.5

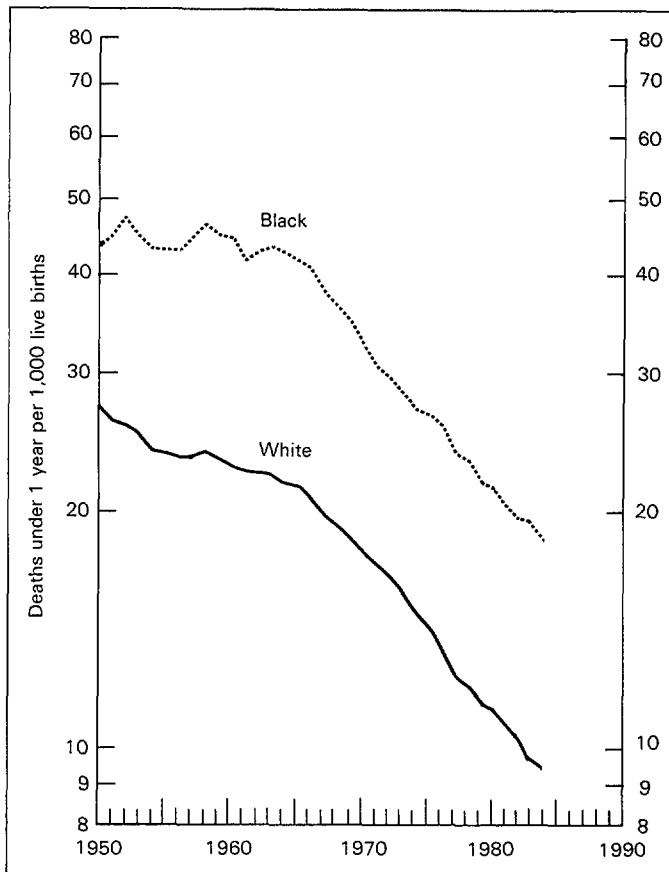


Figure 5. Infant mortality rates by race: United States, 1950-84

the white population the postneonatal mortality rate was the same in 1984 as in 1983 and 1982 (3.3). For black infants the postneonatal mortality rate for 1984 was 6.5 compared with 6.8 for 1983 and 6.6 in 1982. In contrast to the trend for neonatal mortality, between 1960 and 1984 the postneonatal rate decreased relatively faster for the black population than for the white population—an average decline of 3.8 percent per year for black infants compared with an average decline of 2.3 percent for white infants.

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

The ranking of the leading causes of infant mortality for 1984 changed slightly from the list based on data for 1983. Because of a decrease in the number of deaths assigned to Accidents and adverse effects, the rank of this cause changed from the seventh leading cause in 1983 to the ninth in 1984. The ranks for Infections specific to the perinatal period and Newborn affected by complications of placenta, cord, and membranes changed from eighth and ninth in 1983 to seventh and eighth in 1984, respectively. Among the 10 leading causes

Table F. Maternal deaths and maternal mortality rates by race: United States, 1984

[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 specified group]

Race	Number	Rate
All races.....	285	7.8
White.....	159	5.4
All other.....	126	16.9
Black.....	117	19.7

of infant death, the first 4 accounted for just over half of all deaths of infants under 1 year of age in 1984, and causes ranking 5th through 10th accounted for only 15 percent of all infant deaths. The infant mortality rates declined between 1983 and 1984 for 2 of the 10 leading causes of death—Accidents and adverse effects and Pneumonia and influenza. The changes in rates between 1983 and 1984 for the other leading causes of infant mortality were negligible.

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 but one leading cause. For Congenital anomalies, the leading cause of infant death, the rate for black infants was 234.3 deaths per 100,000 live births, about the same as for white infants (235.2). 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 birth-weight (3.4); Pneumonia and influenza (2.5); Intrauterine hypoxia and birth asphyxia (2.2); Newborn affected by maternal complications of pregnancy (2.0); Sudden infant death syndrome (1.9); Accidents and adverse effects (1.9); Infections specific to the perinatal period (1.8); Respiratory distress syndrome (1.7); and Newborn affected by complications of placenta, cord, and membranes (1.6).

Maternal mortality

In 1984, 285 women were reported to have died of maternal causes (table F). As in previous years, this number does not include all deaths occurring to pregnant women, but only those deaths assigned to Complications of pregnancy, childbirth, and the puerperium (ICD-9 Nos. 630-676). The maternal mortality rate for 1984 was 7.8 deaths per 100,000 live births, about the same as the rate of 8.0 for 1983. The maternal mortality rates by race for 1984 are also about the same as in 1983. In 1984 black women were 3.6 times as likely as white women to die of causes associated with pregnancy, childbirth, and the puerperium.

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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, and 1970-84

[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			Total			All other		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Number												
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
1974	1,934,388	1,071,627	862,761	1,697,295	936,640	760,655	237,093	134,987	102,106	222,948	126,036	96,912
1973	1,973,003	1,096,795	876,208	1,728,405	957,918	770,487	244,598	138,877	105,721	230,110	129,647	100,463
1972 ¹	1,963,944	1,096,198	867,746	1,721,468	957,518	763,950	242,476	138,680	103,796	228,450	129,740	98,710
1971	1,927,542	1,077,332	850,210	1,689,771	942,337	747,434	237,771	134,995	102,776	224,138	126,362	97,776
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												
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	695.5
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
1974	906.7	1,031.5	788.3	913.8	1,032.4	800.5	859.1	1,025.1	707.6	916.5	1,090.0	759.4
1973	933.5	1,065.2	808.3	937.7	1,063.8	817.3	904.5	1,075.3	748.4	960.6	1,137.7	800.0
1972 ¹	938.4	1,074.9	808.7	941.7	1,072.0	817.3	915.5	1,095.2	750.9	969.2	1,155.9	799.4
1971	932.0	1,069.4	801.4	933.9	1,066.5	807.4	918.4	1,090.5	760.7	968.5	1,146.8	806.4
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 ²												
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
1974	659.5	870.9	487.0	629.0	836.1	461.0	889.6	1,142.4	680.5	940.4	1,215.5	717.1
1973	687.3	905.9	508.1	654.0	868.5	479.3	942.2	1,199.5	728.1	993.1	1,272.1	764.9
1972 ¹	698.0	918.0	516.6	664.0	879.3	487.6	958.6	1,223.1	737.1	1,009.5	1,296.6	772.8
1971	697.6	913.3	519.1	663.7	876.0	489.1	959.5	1,206.7	749.7	1,007.8	1,276.1	784.6
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	...	...	...

¹Deaths based on a 50-percent sample.

²For method of computation, see Technical notes.

Table 1. Deaths and death rates by age, race, and sex: United States, 1984

[Rates per 100,000 population in specific group]

Age	All races						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.....	2,039,369	1,076,514	962,855	1,781,897	934,529	847,368	257,472	141,985	115,487	235,884	129,147	106,737
Under 1 year.....	39,580	22,359	17,221	27,608	15,805	11,803	11,972	6,554	5,418	10,881	5,961	4,920
1-4 years.....	7,372	4,142	3,230	5,413	3,070	2,343	1,959	1,072	887	1,679	919	760
5-9 years.....	4,140	2,480	1,660	3,121	1,869	1,252	1,019	611	408	910	538	372
10-14 years.....	4,936	3,105	1,831	3,890	2,458	1,432	1,046	647	399	919	577	342
15-19 years.....	15,213	10,928	4,285	12,625	9,075	3,550	2,588	1,853	735	2,192	1,565	627
20-24 years.....	23,604	17,732	5,872	18,890	14,299	4,591	4,714	3,433	1,281	4,139	2,991	1,148
25-29 years.....	24,242	17,750	6,492	18,433	13,657	4,776	5,809	4,093	1,716	5,252	3,697	1,555
30-34 years.....	25,686	18,017	7,669	18,967	13,447	5,520	6,719	4,570	2,149	6,128	4,200	1,928
35-39 years.....	28,247	18,694	9,553	21,185	14,049	7,136	7,062	4,645	2,417	6,439	4,269	2,170
40-44 years.....	34,309	21,893	12,416	26,125	16,797	9,328	8,184	5,096	3,088	7,446	4,651	2,795
45-49 years.....	45,723	28,805	16,918	35,526	22,517	13,009	10,197	6,288	3,909	9,352	5,781	3,571
50-54 years.....	71,490	45,026	26,464	57,651	36,608	21,043	13,839	8,418	5,421	12,746	7,756	4,990
55-59 years.....	116,975	73,197	43,778	97,365	61,493	35,872	19,610	11,704	7,906	18,144	10,857	7,287
60-64 years.....	170,380	105,419	64,961	145,262	90,573	54,689	25,118	14,846	10,272	23,346	13,785	9,561
65-69 years.....	214,732	129,211	85,521	187,563	113,733	73,830	27,169	15,478	11,691	25,207	14,315	10,892
70-74 years.....	261,838	150,167	111,671	230,931	133,421	97,510	30,907	16,746	14,161	28,649	15,322	13,327
75-79 years.....	281,892	148,140	133,752	253,910	133,916	119,994	27,982	14,224	13,758	25,681	12,739	12,942
80-84 years.....	269,020	122,297	146,723	244,706	111,144	133,562	24,314	11,153	13,161	22,198	9,909	12,289
85 years and over.....	399,466	136,799	262,667	372,354	126,344	246,010	27,112	10,455	16,657	24,439	9,225	15,214
Not stated.....	524	353	171	372	254	118	152	99	53	137	90	47
	Rate											
All ages ¹	862.3	935.9	792.7	885.2	951.1	822.3	731.5	846.4	627.0	828.5	958.1	712.0
Under 1 year ²	1,085.6	1,198.2	967.5	931.8	1,038.4	818.5	1,755.4	1,905.2	1,603.0	1,964.1	2,136.6	1,789.1
1-4 years.....	51.9	57.0	46.5	46.9	51.8	41.6	73.6	79.5	67.4	78.8	85.2	72.2
5-9 years.....	25.1	29.4	20.7	23.3	27.2	19.2	32.9	39.0	26.7	36.1	42.1	29.8
10-14 years.....	28.2	34.6	21.4	27.3	33.6	20.7	32.0	39.0	24.8	34.4	42.6	25.9
15-19 years.....	81.0	114.4	46.4	81.9	115.6	47.0	76.6	108.7	44.0	77.9	110.9	44.7
20-24 years.....	110.7	165.9	55.2	105.8	158.9	51.8	136.0	203.3	72.0	145.5	218.6	77.8
25-29 years.....	112.6	164.8	60.3	101.4	148.9	53.1	172.8	256.1	97.3	194.4	289.7	109.1
30-34 years.....	130.4	183.9	77.5	113.5	160.1	66.4	224.8	326.7	135.2	264.4	390.0	155.2
35-39 years.....	166.8	223.9	111.3	144.9	192.8	97.3	305.4	437.4	193.2	362.1	527.0	223.9
40-44 years.....	252.0	328.1	178.9	221.5	287.8	156.6	449.9	609.6	313.8	529.2	729.0	363.5
45-49 years.....	398.9	515.5	288.0	358.3	461.3	258.4	658.7	889.4	464.8	763.4	1,051.1	529.0
50-54 years.....	648.1	845.7	463.8	599.6	780.9	427.1	978.0	1,323.6	695.9	1,113.2	1,511.9	789.6
55-59 years.....	1,022.3	1,352.5	726.0	962.6	1,277.9	676.6	1,476.7	1,950.7	1,086.0	1,657.0	2,184.5	1,218.6
60-64 years.....	1,567.1	2,082.1	1,118.1	1,495.7	1,993.7	1,058.0	2,165.3	2,855.0	1,605.0	2,424.3	3,205.8	1,793.8
65-69 years.....	2,312.9	3,097.1	1,672.9	2,255.4	3,031.3	1,617.7	2,806.7	3,685.2	2,133.4	3,081.5	4,055.2	2,342.4
70-74 years.....	3,515.1	4,759.7	2,600.6	3,440.1	4,686.4	2,522.2	4,199.3	5,437.0	3,308.6	4,605.9	6,008.6	3,621.5
75-79 years.....	5,256.2	7,125.5	4,072.8	5,232.0	7,149.8	4,028.0	5,486.7	6,938.5	4,510.8	5,944.7	7,582.7	4,920.9
80-84 years.....	8,287.7	10,890.2	6,914.4	8,217.1	10,853.9	6,835.3	9,072.4	11,153.0	7,833.9	9,736.0	11,938.6	8,475.2
85 years and over.....	15,223.6	18,119.1	14,053.9	15,508.3	18,552.7	14,319.6	11,996.5	14,128.4	11,104.7	12,468.9	14,642.9	11,439.1

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, and 16 for infant mortality rates, and Technical notes for further discussion of the difference.

Table 3. Abridged life table for the total population: United States, 1984

[For explanation of the columns of the life table, see section 6 of *Vital Statistics of the United States, 1981, Volume II*]

Age interval	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)
Period of life between two exact ages stated in years (1)						
x to x + n	nq_x	l_x	nd_x	nL_x	T_x	e_x
0-1	0.0108	100,000	1,080	99,078	7,474,573	74.7
1-5	0.0020	98,920	202	395,207	7,375,495	74.6
5-10	0.0013	98,718	125	493,250	6,980,288	70.7
10-15	0.0014	98,593	137	492,699	6,487,038	65.8
15-20	0.0040	98,456	396	491,382	5,994,339	60.9
20-25	0.0055	98,060	542	488,972	5,502,957	56.1
25-30	0.0056	97,518	548	486,219	5,013,985	51.4
30-35	0.0065	96,970	631	483,310	4,527,766	46.7
35-40	0.0084	96,339	806	479,794	4,044,456	42.0
40-45	0.0126	95,533	1,201	474,877	3,564,662	37.3
45-50	0.0197	94,332	1,862	467,346	3,089,785	32.8
50-55	0.0319	92,470	2,946	455,448	2,622,439	28.4
55-60	0.0500	89,524	4,474	437,078	2,166,991	24.2
60-65	0.0757	85,050	6,441	410,020	1,729,913	20.3
65-70	0.1098	78,609	8,632	372,397	1,319,893	16.8
70-75	0.1626	69,977	11,380	322,425	947,496	13.5
75-80	0.2340	58,597	13,709	259,548	625,071	10.7
80-85	0.3451	44,888	15,491	185,922	365,523	8.1
85 and over	1.0000	29,397	29,397	179,601	179,601	6.1

Table 4. Life expectancy at birth by race and sex: United States, 1940, 1950, 1960, 1970-84

Year	All other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
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 9. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1979, 1983, and 1984

[Rates per 100,000 population in specified group. Rates for 1983 and 1984 are based on population estimates that are not strictly comparable. See Technical notes]

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	1984	862.3	1,085.6	51.9	26.7	96.8	121.1	204.8	521.1	1,287.8	2,848.1	6,399.3	15,223.6	545.9
	1983	862.8	1,107.3	55.9	26.9	96.0	121.4	201.9	535.7	1,299.5	2,874.3	6,441.5	15,168.0	550.5
	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	1984	323.5	26.1	2.4	1.0	2.7	8.0	38.7	156.7	450.3	1,102.7	2,748.6	7,251.0	183.6
	1983	329.2	26.0	2.5	0.9	2.6	8.3	39.3	164.7	463.0	1,139.2	2,816.3	7,335.5	188.8
	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	1984	2.9	0.1	0.1	0.0	0.2	0.3	0.9	2.4	5.9	12.4	21.1	24.8	2.0
	1983	2.9	0.2	0.0	0.0	0.1	0.4	1.0	2.9	6.2	12.1	20.2	25.3	2.1
	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	1984	8.8	-	0.0	0.0	0.0	0.3	1.7	6.1	14.5	31.2	69.6	162.4	5.3
	1983	9.0	0.0	0.0	-	0.0	0.3	1.7	6.2	15.4	32.5	72.0	160.7	5.5
	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	1984	1.2	-	-	0.0	-	0.0	0.1	0.3	0.9	3.7	11.8	34.6	0.6
	1983	1.3	-	-	-	0.0	0.0	0.1	0.3	1.1	3.7	12.8	39.5	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	1984	228.9	0.9	0.1	0.1	0.4	2.8	24.0	109.5	323.2	803.2	1,981.2	4,984.8	129.7
	1983	236.1	1.0	0.2	0.1	0.3	3.1	24.8	116.3	336.5	842.5	2,049.8	5,124.3	135.2
	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	1984	118.0	0.6	0.0	0.1	0.2	1.7	15.1	70.5	203.7	475.3	1,009.8	1,747.7	72.4
	1983	122.3	0.7	0.1	0.1	0.2	2.0	15.9	76.1	214.5	503.9	1,036.5	1,779.5	76.1
	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	1984	1.7	0.0	0.0	0.0	0.0	0.1	0.4	1.5	3.6	6.4	11.8	25.6	1.1
	1983	1.7	0.0	0.0	0.0	0.0	0.0	0.4	1.8	3.6	6.6	11.5	25.6	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	1984	0.4	0.0	-	-	-	0.0	0.0	0.2	0.5	1.3	3.2	6.7	0.2
	1983	0.3	-	-	-	0.0	0.0	0.0	0.2	0.4	1.1	3.0	6.5	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	1984	108.8	0.3	0.1	0.1	0.1	1.0	8.4	37.3	115.4	320.2	956.5	3,204.8	56.0
	1983	111.7	0.3	0.1	0.1	0.1	1.1	8.5	38.2	118.0	330.8	998.8	3,312.7	57.9
	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	1984	3.7	0.5	0.0	0.0	0.1	0.3	0.5	1.4	4.1	11.9	35.9	78.3	2.1
	1983	3.6	0.7	0.1	0.0	0.1	0.2	0.6	1.5	4.1	12.2	34.5	73.6	2.0
	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	1984	78.1	24.6	2.2	0.8	2.1	4.3	11.5	37.0	101.7	240.5	628.9	1,966.1	43.8
	1983	76.3	24.1	2.2	0.7	2.1	4.2	11.1	37.5	99.7	236.2	626.9	1,912.2	43.2
	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

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, 1983, and 1984—Con.

[Rates per 100,000 population in specified group. Rates for 1983 and 1984 are based on population estimates that are not strictly comparable. See Technical notes]

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
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	1984	191.8	3.1	4.0	3.6	5.5	13.0	46.6	170.5	448.4	835.1	1,272.3	1,604.0	133.5
	1983	189.3	3.6	4.7	3.9	5.6	12.8	45.6	172.2	443.0	829.3	1,254.7	1,583.4	132.6
	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	1984	3.6	-	-	0.0	0.1	0.2	1.0	4.6	11.1	15.1	16.8	21.3	2.7
	1983	3.6	0.0	0.0	0.0	0.1	0.2	1.0	4.6	11.2	15.3	17.0	22.5	2.7
	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	1984	49.3	0.4	0.2	0.1	0.3	1.7	7.6	34.0	101.7	214.8	379.3	552.1	32.1
	1983	48.7	0.3	0.2	0.1	0.3	1.6	7.6	34.3	100.1	213.5	376.4	543.4	31.8
	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	1984	52.3	0.3	0.1	0.1	0.1	0.7	8.2	53.9	156.1	262.7	286.4	199.3	38.4
	1983	51.3	0.2	0.1	0.1	0.1	0.7	8.9	54.6	151.8	258.7	278.3	191.6	37.9
	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	1984	16.8	0.0	-	0.0	0.0	1.7	9.4	23.7	43.8	61.2	86.2	129.1	12.7
	1983	16.3	0.0	-	0.0	0.1	1.6	8.5	23.7	43.8	59.7	82.9	124.9	12.4
	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	1984	20.7	0.0	0.1	0.1	0.4	1.4	4.1	12.1	34.5	86.7	176.2	261.1	13.1
	1983	20.8	0.1	0.1	0.1	0.5	1.5	4.0	12.5	35.3	88.6	177.0	256.3	13.3
	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	1984	7.9	0.1	0.2	0.1	0.1	0.2	1.1	5.3	14.7	33.3	64.0	97.8	5.0
	1983	7.9	0.1	0.3	0.1	0.1	0.2	1.0	5.0	15.3	34.3	63.6	98.1	5.1
	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	1984	23.8	1.3	2.1	1.6	2.0	3.9	9.2	23.6	54.0	93.4	141.5	188.5	17.3
	1983	23.4	1.7	2.2	1.7	2.1	3.7	8.9	23.9	53.7	91.3	139.1	191.3	17.2
	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	1984	7.2	0.9	1.2	1.4	1.5	1.5	2.7	5.3	11.7	25.5	49.6	75.8	5.1
	1983	7.2	1.0	1.7	1.5	1.4	1.6	2.7	5.2	11.3	25.5	49.2	77.8	5.1
	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	1984	10.2	0.1	0.1	0.3	1.0	1.7	3.4	8.2	20.9	42.3	72.2	79.0	7.2
	1983	10.0	0.1	0.2	0.4	1.0	1.7	3.1	8.3	20.5	42.3	71.0	77.4	7.1
	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	1984	65.3	3.0	0.4	0.3	0.8	2.2	7.5	22.6	55.8	177.0	626.2	1,883.8	33.4
	1983	66.5	3.9	0.4	0.3	0.8	2.2	7.3	22.8	57.6	182.2	652.7	1,912.5	34.4
	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														
	1984	39.3	23.0	19.8	12.4	49.4	38.7	31.2	32.2	36.0	50.3	107.2	256.9	35.0
	1983	39.5	26.1	21.8	12.7	48.5	39.0	31.7	32.6	36.6	50.5	106.0	257.5	35.3
	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														
	1984	19.6	4.4	6.9	6.7	36.7	23.8	17.1	15.4	15.7	18.0	28.2	25.0	19.1
	1983	19.0	5.2	7.5	6.6	35.1	23.4	16.8	15.3	14.7	17.1	26.0	25.0	18.5
	1979	23.8	6.5	9.8	8.3	45.6	28.8	21.0	18.6	18.2	20.7	28.7	24.4	23.2
All other accidents and adverse effects E800-E807,E826-E949														
	1984	19.7	18.6	12.9	5.7	12.6	14.9	14.1	16.8	20.3	32.3	79.0	231.9	15.9
	1983	20.5	20.9	14.3	6.1	13.4	15.6	15.0	17.3	22.0	33.4	80.1	232.5	16.8
	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														
	1984	29.2	1.5	0.3	0.3	0.4	0.6	1.6	9.4	46.0	141.4	270.3	331.0	17.7
	1983	28.3	1.4	0.4	0.3	0.5	0.6	1.7	10.0	44.9	139.8	260.7	309.2	17.4
	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														
	1984	24.9	18.8	1.5	0.5	0.6	1.6	3.0	6.6	16.8	53.7	216.0	883.2	12.2
	1983	23.9	21.0	1.7	0.4	0.7	1.4	2.8	6.7	16.8	51.1	205.8	859.9	11.8
	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														
	1984	15.1	0.1	0.0	0.1	0.3	1.4	3.5	8.9	24.6	59.4	126.1	216.8	9.5
	1983	15.5	0.1	0.1	0.1	0.3	1.5	3.6	9.3	26.5	61.7	130.0	207.6	9.9
	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														
	1984	12.4	...	...	0.7	12.5	15.5	15.1	16.2	17.3	18.8	22.0	18.4	11.6
	1983	12.1	...	...	0.6	11.9	15.8	14.6	16.2	16.5	17.7	22.3	19.0	11.4
	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														
	1984	11.6	0.6	0.1	0.1	0.2	2.8	10.1	23.2	35.0	39.3	33.1	18.7	10.0
	1983	11.7	0.6	0.1	0.0	0.2	3.0	10.0	24.3	36.2	38.5	31.8	18.5	10.2
	1979	13.2	1.0	0.1	0.0	0.2	3.4	13.9	31.0	40.9	41.8	28.3	18.1	12.0
Atherosclerosis 440														
	1984	10.3	-	0.0	0.0	0.0	0.0	0.1	0.7	4.1	17.4	88.4	488.4	4.2
	1983	11.3	0.0	0.0	0.0	0.0	0.0	0.1	1.1	4.5	19.3	98.5	530.8	4.6
	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														
	1984	8.5	7.5	0.2	0.1	0.2	0.6	1.3	3.1	9.2	26.8	76.1	201.0	4.7
	1983	8.1	6.3	0.1	0.1	0.2	0.6	1.2	3.2	9.2	25.5	74.6	186.6	4.6
	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														
	1984	8.4	6.5	2.4	1.3	12.0	14.7	11.3	8.5	5.8	4.2	4.4	4.3	8.4
	1983	8.6	5.3	2.3	1.0	12.4	15.4	11.8	8.7	6.1	4.3	4.9	5.0	8.6
	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
Certain conditions originating in the perinatal period 760-779														
	1984	8.0	512.4	1.0	0.1	0.0	0.0	0.0	0.0	0.0	-	-	-	(4)
	1983	8.3	522.1	0.8	0.0	0.0	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)
Septicemia 038														
	1984	6.4	8.1	0.5	0.1	0.2	0.5	1.2	3.0	8.0	19.8	51.7	142.1	3.7
	1983	5.7	8.3	0.6	0.1	0.2	0.4	0.9	2.7	7.5	17.8	48.1	124.5	3.4
	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
Congenital anomalies 740-759														
	1984	5.5	234.4	6.7	1.4	1.3	1.1	1.1	1.6	2.2	2.5	3.8	5.8	(4)
	1983	5.6	238.0	6.5	1.4	1.4	1.1	1.2	1.5	2.0	2.6	4.0	5.9	(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, and 16 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, 1984

[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.....	2,039,369	862.3	6	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	23,548	22.9
1	Diseases of heart..... 390-398,402,404-429	765,114	323.5	7	Diabetes mellitus..... 250	17,016	16.5
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	453,492	191.8	8	Atherosclerosis..... 440	14,198	13.8
3	Cerebrovascular diseases.... 430-438	154,327	65.3	9	Chronic liver disease and cirrhosis... 571	8,126	7.9
4	Accidents and adverse effects..... E800-E949	92,911	39.3	10	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	8,024	7.8
...	Motor vehicle accidents..... E810-E825	46,263	19.6	...	All other causes..... Residual	126,734	123.0
...	All other accidents and adverse effects.... E800-E807,E826-E949	46,648	19.7	All other, male			
5	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	69,100	29.2	...	All causes.....	141,985	846.4
6	Pneumonia and influenza.... 480-487	58,894	24.9	1	Diseases of heart..... 390-398,402,404-429	41,643	248.2
7	Diabetes mellitus..... 250	35,787	15.1	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	31,421	187.3
8	Suicide..... E950-E959	29,286	12.4	3	Accidents and adverse effects..... E800-E949	9,826	58.6
9	Chronic liver disease and cirrhosis... 571	27,317	11.6	...	Motor vehicle accidents..... E810-E825	4,335	25.8
10	Atherosclerosis..... 440	24,462	10.3	...	All other accidents and adverse effects.... E800-E807,E826-E949	5,491	32.7
...	All other causes..... Residual	328,679	139.0	4	Cerebrovascular diseases.... 430-438	8,864	52.8
White, male				5	Homicide and legal intervention..... E960-E978	6,867	40.9
...	All causes.....	934,529	951.1	6	Pneumonia and influenza.... 480-487	3,763	22.4
1	Diseases of heart..... 390-398,402,404-429	355,454	361.8	7	Certain conditions originating in the perinatal period..... 760-779	3,524	21.0
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	211,369	215.1	8	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	3,285	19.6
3	Accidents and adverse effects..... E800-E949	54,227	55.2	9	Chronic liver disease and cirrhosis... 571	2,775	16.5
...	Motor vehicle accidents..... E810-E825	28,614	29.1	10	Diabetes mellitus..... 250	2,409	14.4
...	All other accidents and adverse effects.... E800-E807,E826-E949	25,613	26.1	...	All other causes..... Residual	27,608	164.6
4	Cerebrovascular diseases.... 430-438	52,833	53.8	All other, female			
5	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	40,728	41.5	...	All causes.....	115,487	627.0
6	Pneumonia and influenza.... 480-487	25,677	26.1	1	Diseases of heart..... 390-398,402,404-429	38,960	211.5
7	Suicide..... E950-E959	20,882	21.3	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	23,440	127.3
8	Chronic liver disease and cirrhosis... 571	14,783	15.0	3	Cerebrovascular diseases.... 430-438	11,059	60.0
9	Diabetes mellitus..... 250	12,450	12.7	4	Diabetes mellitus..... 250	3,912	21.2
10	Atherosclerosis..... 440	8,447	8.6	5	Accidents and adverse effects..... E800-E949	3,863	21.0
...	All other causes..... Residual	137,679	140.1	...	Motor vehicle accidents..... E810-E825	1,499	8.1
White, female				...	All other accidents and adverse effects.... E800-E807,E826-E949	2,364	12.8
...	All causes.....	847,368	822.3	6	Certain conditions originating in the perinatal period..... 760-779	2,886	15.7
1	Diseases of heart..... 390-398,402,404-429	329,057	319.3	7	Pneumonia and influenza.... 480-487	2,617	14.2
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	187,262	181.7	8	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	2,051	11.1
3	Cerebrovascular diseases.... 430-438	81,571	79.2	9	Homicide and legal intervention..... E960-E978	1,802	9.8
4	Pneumonia and influenza.... 480-487	26,837	26.0	10	Chronic liver disease and cirrhosis... 571	1,633	8.9
5	Accidents and adverse effects..... E800-E949	24,995	24.3	...	All other causes..... Residual	23,264	126.0
...	Motor vehicle accidents..... E810-E825	11,815	11.5				
...	All other accidents and adverse effects.... E810-E807,E826-E949	13,180	12.8				

Table 6. Deaths and death rates for the 10 leading causes of death in specified race-sex groups: United States, 1984—Con.

[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
Black, male				Black, female			
...	All causes.....	129,147	958.1	...	All causes.....	106,737	712.0
1	Diseases of heart..... 390-398,402,404-429	38,034	282.2	1	Diseases of heart..... 390-398,402,404-429	36,664	244.6
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	28,851	214.0	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	21,415	142.9
3	Accidents and adverse effects..... E800-E949	8,399	62.3	3	Cerebrovascular diseases.... 430-438	10,276	68.5
...	Motor vehicle accidents..... E810-E825	3,556	26.4	4	Diabetes mellitus..... 250	3,650	24.3
...	All other accidents and adverse effects.... E800-E807,E826-E949	4,843	35.9	5	Accidents and adverse effects..... E800-E949	3,288	21.9
4	Cerebrovascular diseases.... 430-438	8,093	60.0	...	Motor vehicle accidents..... E810-E825	1,165	7.8
5	Homicide and legal intervention..... E960-E978	6,563	48.7	...	All other accidents and adverse effects.... E800-E807,E826-E949	2,123	14.2
6	Pneumonia and influenza.... 480-487	3,336	24.7	6	Certain conditions originating in the perinatal period..... 760-779	2,712	18.1
7	Certain conditions originating in the perinatal period..... 760-779	3,290	24.4	7	Pneumonia and influenza.... 480-487	2,333	15.6
8	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	2,922	21.7	8	Nephritis, nephrotic syndrome, and nephrosis..... 580-589	1,935	12.9
9	Chronic liver disease and cirrhosis... 571	2,458	18.2	9	Homicide and legal intervention..... E960-E978	1,677	11.2
10	Diabetes mellitus..... 250	2,160	16.0	10	Septicemia..... 038	1,514	10.1
...	All other causes..... Residual	25,041	185.8	...	All other causes..... Residual	21,273	141.9

Table 7. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, 1984

[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	7,372	51.9	4	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	2,194	5.5
1	Accidents and adverse effects..... E800-E949	2,814	19.8	5	Diseases of heart..... 390-398,402,404-429	1,099	2.7
...	Motor vehicle accidents..... E810-E825	977	6.9	6	Congenital anomalies..... 740-759	516	1.3
...	All other accidents and adverse effects... E800-E807,E826-E949	1,837	12.9	7	Cerebrovascular diseases... 430-438	329	0.8
2	Congenital anomalies..... 740-759	946	6.7	8	Pneumonia and influenza... 480-487	251	0.6
3	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	563	4.0	9	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	160	0.4
4	Diseases of heart..... 390-398,402,404-429	346	2.4	10	Anemias..... 280-285	122	0.3
5	Homicide and legal intervention..... E960-E978	341	2.4	...	All other causes..... Residual	4,500	11.2
6	Pneumonia and influenza... 480-487	211	1.5	25-44 years			
7	Meningitis..... 320-322	174	1.2	...	All causes	112,484	156.7
8	Certain conditions originating in the perinatal period..... 760-779	144	1.0	1	Accidents and adverse effects..... E800-E949	25,498	35.5
9	Septicemia..... 038	76	0.5	...	Motor vehicle accidents..... E810-E825	15,036	20.9
10	Meningococcal infection..... 036	70	0.5	...	All other accidents and adverse effects... E800-E807,E826-E949	10,462	14.6
...	All other causes..... Residual	1,687	11.9	2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	19,597	27.3
5-14 years				3	Diseases of heart..... 390-398,402,404-429	15,121	21.1
...	All causes	9,076	26.7	4	Suicide..... E950-E959	10,994	15.3
1	Accidents and adverse effects..... E800-E949	4,198	12.4	5	Homicide and legal intervention..... E960-E978	9,517	13.3
...	Motor vehicle accidents..... E810-E825	2,263	6.7	6	Chronic liver disease and cirrhosis..... 571	4,234	5.9
...	All other accidents and adverse effects... E800-E807,E826-E949	1,935	5.7	7	Cerebrovascular diseases... 430-438	3,217	4.5
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues... 140-208	1,207	3.6	8	Diabetes mellitus..... 250	1,650	2.3
3	Congenital anomalies..... 740-759	484	1.4	9	Pneumonia and influenza... 480-487	1,573	2.2
4	Homicide and legal intervention..... E960-E978	429	1.3	10	Congenital anomalies..... 740-759	793	1.1
5	Diseases of heart..... 390-398,402,404-429	340	1.0	...	All other causes..... Residual	20,290	28.3
6	Suicide..... E950-E959	232	0.7	45-64 years			
7	Pneumonia and influenza... 480-487	171	0.5	...	All causes	404,568	902.9
8	Cerebrovascular diseases... 430-438	106	0.3	1	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	138,413	308.9
9	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	94	0.3	2	Diseases of heart..... 390-398,402,404-429	135,727	302.9
10	Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature... 210-239	80	0.2	3	Cerebrovascular diseases... 430-438	17,524	39.1
...	All other causes..... Residual	1,735	5.1	4	Accidents and adverse effects..... E800-E949	15,273	34.1
15-24 years				...	Motor vehicle accidents..... E810-E825	6,954	15.5
...	All causes	38,817	96.8	...	All other accidents and adverse effects... E800-E807,E826-E949	8,319	18.6
1	Accidents and adverse effects..... E800-E949	19,801	49.4	5	Chronic liver disease and cirrhosis..... 571	13,033	29.1
...	Motor vehicle accidents..... E810-E825	14,738	36.7	6	Chronic obstructive pulmonary diseases and allied conditions..... 490-496	12,396	27.7
...	All other accidents and adverse effects... E800-E807,E826-E949	5,063	12.6	7	Diabetes mellitus..... 250	7,500	16.7
2	Suicide..... E950-E959	5,026	12.5	8	Suicide..... E950-E959	7,498	16.7
3	Homicide and legal intervention..... E960-E978	4,819	12.0	9	Pneumonia and influenza... 480-487	5,240	11.7
...				10	Homicide and legal intervention..... E960-E978	3,204	7.2
...				...	All other causes..... Residual	48,760	108.8

Table 7. Deaths and death rates for the 10 leading causes of death in specified age groups: United States, 1984—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	1,426,948	5,102.4	7	Accidents and adverse effects	24,390	87.2
1	Diseases of heart	611,416	2,186.3	...	Motor vehicle accidents	6,103	21.8
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	291,362	1,041.8	...	All other accidents and adverse effects	18,287	65.4
3	Cerebrovascular diseases	132,966	475.5	8	Atherosclerosis	23,336	83.4
4	Chronic obstructive pulmonary diseases and allied conditions	55,620	198.9	9	Nephritis, nephrotic syndrome, and nephrosis	16,303	58.3
5	Pneumonia and influenza	50,749	181.5	10	Septicemia	11,484	41.1
6	Diabetes mellitus	26,481	94.7	...	All other causes	182,841	653.8

Table 8. Deaths from 72 selected causes by age: United States, 1984

<i>Cause of death</i> (Ninth Revision International Classification of Diseases, 1975)	<i>All ages</i>	<i>Under 1 year</i>	<i>1-4 years</i>	<i>5-14 years</i>	<i>15-24 years</i>	<i>25-34 years</i>	<i>35-44 years</i>	<i>45-54 years</i>	<i>55-64 years</i>	<i>65-74 years</i>	<i>75-84 years</i>	<i>85 years and over</i>	<i>Not stated</i>
All causes	2,039,369	39,580	7,372	9,076	38,817	49,928	62,556	117,213	287,355	476,570	550,912	399,466	524
Shigellosis and amebiasis 004,006	18	-	-	3	1	-	1	-	3	5	1	4	-
Certain other intestinal infections 007-009	331	138	13	4	3	8	7	8	21	28	49	51	1
Tuberculosis 010-018	1,729	2	2	2	28	88	140	177	302	406	405	176	1
Tuberculosis of respiratory system 010-012	1,342	-	1	-	13	54	94	142	243	321	326	148	-
Other tuberculosis 013-018	387	2	1	2	15	34	46	35	59	85	79	28	1
Whooping cough 033	7	7	-	-	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas 034-035	11	-	-	-	-	1	2	3	1	2	2	-	-
Meningococcal infection 036	300	66	70	22	44	16	10	16	24	16	10	6	-
Septicemia 038	15,028	296	76	43	98	213	361	666	1,790	3,307	4,447	3,730	1
Acute poliomyelitis 045	-	-	-	-	-	-	-	-	-	-	-	-	-
Measles 055	1	-	-	-	-	-	1	-	-	-	-	-	-
Viral hepatitis 070	869	8	6	7	72	110	95	97	165	174	93	42	-
Syphilis 090-097	105	6	-	-	2	1	2	2	12	31	34	15	-
All other infectious and parasitic diseases 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	6,101	199	84	106	203	754	741	621	875	1,084	931	502	1
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	453,492	114	563	1,207	2,194	5,351	14,246	38,358	100,055	139,741	109,532	42,089	42
Malignant neoplasms of lip, oral cavity, and pharynx 140-149	8,462	-	-	8	24	68	298	1,045	2,473	2,535	1,450	560	1
Malignant neoplasms of digestive organs and peritoneum 150-159	116,616	16	28	24	111	686	2,328	7,637	22,689	35,947	32,658	14,487	5
Malignant neoplasms of respiratory and intrathoracic organs 160-165	123,699	10	8	25	51	302	2,491	12,118	34,836	43,962	24,653	5,230	13
Malignant neoplasm of breast 174-175	39,722	1	-	1	17	685	2,880	5,322	9,764	10,237	7,425	3,388	2
Malignant neoplasms of genital organs 179-187	48,955	1	8	17	145	596	1,255	2,714	7,689	14,500	15,170	6,852	8
Malignant neoplasms of urinary organs 188-189	18,600	2	22	29	26	80	325	1,185	3,278	5,574	5,511	2,566	2
Malignant neoplasms of all other and unspecified sites 170-173,190-199	56,236	47	301	538	817	1,602	2,811	5,298	12,050	15,636	12,181	4,945	10
Leukemia 204-208	17,080	32	175	478	611	611	830	1,188	2,621	4,275	4,271	1,988	-
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203	24,122	5	21	87	392	721	1,028	1,851	4,655	7,075	6,213	2,073	1
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	6,436	78	49	80	99	186	258	365	933	1,621	1,816	951	-
Diabetes mellitus 250	35,787	4	5	27	119	578	1,072	2,005	5,495	9,934	10,857	5,690	1
Nutritional deficiencies 260-269	2,600	18	7	4	2	19	20	39	125	366	778	1,222	-
Anemias 280-285	3,527	33	65	72	122	128	114	125	260	608	1,010	989	1
Meningitis 320-322	1,194	268	174	46	36	57	43	70	145	135	156	63	1
Major cardiovascular diseases 390-448	973,418	1,084	411	470	1,507	4,465	14,589	41,512	117,667	225,497	307,711	258,358	147
Diseases of heart 390-398,402,404-429	765,114	953	346	340	1,099	3,314	11,807	35,236	100,491	184,522	236,628	190,266	112

Rheumatic fever and rheumatic heart disease 390-398	6,912	5	9	12	71	141	278	532	1,323	2,074	1,815	652	-
Hypertensive heart disease 402	20,712	-	1	1	16	113	506	1,365	3,230	5,218	5,996	4,261	5
Hypertensive heart and renal disease 404	2,855	-	-	1	-	14	27	70	206	613	1,017	907	-
Ischemic heart disease 410-414	541,288	33	15	41	146	1,167	7,318	24,625	72,116	134,396	170,562	130,801	68
Acute myocardial infarction . . . 410	279,122	21	5	20	87	717	4,607	15,859	45,461	79,525	86,933	45,860	27
Other acute and subacute forms of ischemic heart disease 411	4,034	1	1	1	4	21	125	336	795	1,065	1,012	671	2
Angina pectoris 413	841	1	-	-	-	1	14	48	106	222	272	177	-
Old myocardial infarction and other forms of chronic ischemic heart disease 412,414	257,291	10	9	20	55	428	2,572	8,382	25,754	53,584	82,345	84,093	39
Other diseases of endocardium 424	8,722	17	7	15	42	108	159	319	919	1,986	3,094	2,055	1
All other forms of heart disease 415-423,425-429	184,625	898	314	270	824	1,771	3,519	8,325	22,697	40,235	54,144	51,590	38
Hypertension with or without renal disease 401,403	7,774	1	1	3	6	48	124	324	937	1,876	2,449	2,004	1
Cerebrovascular diseases 430-438	154,327	111	53	106	329	923	2,294	5,082	12,442	29,623	53,911	49,432	21
Intracerebral and other intracranial hemorrhage 431-432	20,192	67	19	52	117	312	840	1,756	3,182	5,096	5,770	2,978	3
Cerebral thrombosis and unspecified occlusion of cerebral arteries 434,0,434,9	25,284	16	9	12	22	48	164	473	1,733	4,534	9,188	9,078	7
Cerebral embolism 434.1	774	-	1	1	3	3	12	22	80	205	286	161	-
All other and late effects of cerebrovascular diseases 430, 433,435-438	108,077	28	24	41	187	560	1,278	2,831	7,447	19,788	38,667	37,215	11
Atherosclerosis 440	24,462	-	3	3	3	5	44	153	910	2,911	7,610	12,815	5
Other diseases of arteries, arterioles, and capillaries 441-448	21,741	19	8	18	70	175	320	717	2,887	6,565	7,113	3,841	8
Acute bronchitis and bronchiolitis . . . 466	544	57	24	4	8	8	13	15	43	83	127	161	1
Pneumonia and influenza 480-487	58,894	685	211	171	251	650	923	1,489	3,751	8,978	18,595	23,176	14
Pneumonia 480-486	57,798	680	206	160	240	636	911	1,473	3,702	8,852	18,252	22,673	13
Influenza 487	1,096	5	5	11	11	14	12	16	49	126	343	503	1
Chronic obstructive pulmonary diseases and allied conditions 490-496	69,100	56	46	94	160	227	493	2,125	10,271	23,668	23,266	8,686	8
Bronchitis, chronic and unspecified 490-491	3,545	38	17	6	11	17	36	96	458	1,037	1,147	682	-
Emphysema 492	13,263	6	1	1	4	17	67	395	2,214	4,942	4,348	1,268	-
Asthma 493	3,564	10	17	79	132	159	227	355	674	905	702	303	1
Other chronic obstructive pulmonary diseases and allied conditions 494-496	48,728	2	11	8	13	34	163	1,279	6,925	16,784	17,069	6,433	7
Ulcer of stomach and duodenum 531-533	6,570	11	2	4	15	49	128	272	828	1,523	2,103	1,634	1
Appendicitis 540-543	493	3	8	18	10	15	17	20	72	111	139	80	-
Hernia of abdominal cavity and intestinal obstruction without mention of hernia 550-553,560	5,300	105	21	17	33	43	71	142	388	907	1,766	1,807	-
Chronic liver disease and cirrhosis . . . 571	27,317	23	12	22	66	1,162	3,072	5,214	7,819	6,579	2,850	491	7
Cholelithiasis and other disorders of gallbladder 574-575	3,023	4	-	-	7	20	46	95	269	666	1,020	894	2

Table 8. Deaths from 72 selected causes by age: United States, 1984—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>
Nephritis, nephrotic syndrome, and nephrosis 580-589	20,126	273	22	40	83	247	392	700	2,064	4,477	6,553	5,273	2
Acute glomerulonephritis and nephrotic syndrome 580-581	316	5	6	2	2	9	8	22	29	61	112	60	-
Chronic glomerulonephritis, nephritis, and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified 582-583,587	1,824	3	-	7	18	51	71	78	180	384	572	460	-
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause 584-586,588-589	17,986	265	16	31	63	187	313	600	1,855	4,032	5,869	4,753	2
Infections of kidney 590	2,077	5	1	1	13	21	37	58	157	361	703	720	-
Hyperplasia of prostate 600	536	-	-	-	-	-	-	4	23	77	213	219	-
Complications of pregnancy, childbirth, and the puerperium 630-676	285	...	...	1	78	157	47	2	...	...	...	...	...
Pregnancy with abortive outcome 630-638	57	...	...	1	21	22	12	1	...	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium 640-676	228	...	...	-	57	135	35	1	...	...	...	...	...
Congenital anomalies 740-759	13,039	8,548	946	484	516	445	348	350	497	426	323	152	4
Certain conditions originating in the perinatal period 760-779	18,881	18,682	144	26	9	5	2	3	2	-	-	-	8
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome 767-769	5,163	5,103	36	18	3	1	-	1	1	-	-	-	-
Other conditions originating in the perinatal period 760-766,770-779	13,718	13,579	108	8	6	4	2	2	1	-	-	-	8
Symptoms, signs, and ill-defined conditions 780-799	29,721	5,874	259	102	723	1,443	1,305	1,627	3,354	4,857	5,326	4,789	62
All other diseases Residual	137,497	1,798	940	1,065	2,173	4,271	5,848	7,884	16,494	28,423	38,476	30,099	26
Accidents and adverse effects E800-E949	92,911	838	2,814	4,198	19,801	15,967	9,531	7,250	8,023	8,424	9,226	6,740	99
Motor vehicle accidents E810-E825	46,263	161	977	2,263	14,738	9,815	5,221	3,460	3,494	3,020	2,428	655	31
All other accidents and adverse effects E800-E807,E826-E949	46,648	677	1,837	1,935	5,063	6,152	4,310	3,790	4,529	5,404	6,798	6,085	68
Suicide E950-E959	29,286	...	...	232	5,026	6,392	4,602	3,648	3,850	3,141	1,894	482	19
Homicide and legal intervention E960-E978	19,796	237	341	429	4,819	6,054	3,463	1,916	1,288	695	383	113	58
All other external causes E980-E999	3,019	60	56	75	496	777	516	335	289	219	117	62	17

Table 1. Death rates for 72 selected causes by age: United States, 1984

[Rates per 100,000 population in specified group]

<i>Cause of death (Ninth Revision International Classification of Diseases, 1975)</i>	<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>
All causes	862.3	1,085.6	51.9	26.7	96.8	121.1	204.8	521.1	1,287.8	2,848.1	6,399.3	15,223.6
Shigellosis and amebiasis	0.0	-	-	0.0	0.0	-	0.0	-	0.0	0.0	0.0	0.2
Certain other intestinal infections	0.1	3.8	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.9
Tuberculosis	0.7	0.1	0.0	0.0	0.1	0.2	0.5	0.8	1.4	2.4	4.7	6.7
Tuberculosis of respiratory system	0.6	-	0.0	-	0.0	0.1	0.3	0.6	1.1	1.9	3.8	5.6
Other tuberculosis	0.2	0.1	0.0	0.0	0.0	0.1	0.2	0.2	0.3	0.5	0.9	1.1
Whooping cough	0.0	0.2	-	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas	0.0	-	-	-	-	0.0	0.0	0.0	0.0	0.0	0.0	-
Meningococcal infection	0.1	1.8	0.5	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.2
Septicemia	6.4	8.1	0.5	0.1	0.2	0.5	1.2	3.0	8.0	19.8	51.7	142.1
Acute poliomyelitis	-	-	-	-	-	-	-	-	-	-	-	-
Measles	0.0	-	-	-	-	-	0.0	-	-	-	-	-
Viral hepatitis	0.4	0.2	0.0	0.0	0.2	0.3	0.3	0.4	0.7	1.0	1.1	1.6
Syphilis	0.0	0.2	-	-	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.6
All other infectious and parasitic diseases	2.6	5.5	0.6	0.3	0.5	1.8	2.4	2.8	3.9	6.5	10.8	19.1
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues	191.8	3.1	4.0	3.6	5.5	13.0	46.6	170.5	448.4	835.1	1,272.3	1,604.0
Malignant neoplasms of lip, oral cavity, and pharynx	3.6	-	-	0.0	0.1	0.2	1.0	4.6	11.1	15.1	16.8	21.3
Malignant neoplasms of digestive organs and peritoneum	49.3	0.4	0.2	0.1	0.3	1.7	7.6	34.0	101.7	214.8	379.3	552.1
Malignant neoplasms of respiratory and intrathoracic organs	52.3	0.3	0.1	0.1	0.1	0.7	8.2	53.9	156.1	262.7	286.4	199.3
Malignant neoplasm of breast	16.8	0.0	-	0.0	0.0	1.7	9.4	23.7	43.8	61.2	86.2	129.1
Malignant neoplasms of genital organs	20.7	0.0	0.1	0.1	0.4	1.4	4.1	12.1	34.5	86.7	176.2	261.1
Malignant neoplasms of urinary organs	7.9	0.1	0.2	0.1	0.1	0.2	1.1	5.3	14.7	33.3	64.0	97.8
Malignant neoplasms of all other and unspecified sites	23.8	1.3	2.1	1.6	2.0	3.9	9.2	23.6	54.0	93.4	141.5	188.5
Leukemia	7.2	0.9	1.2	1.4	1.5	1.5	2.7	5.3	11.7	25.5	49.6	75.8
Other malignant neoplasms of lymphatic and hematopoietic tissues	10.2	0.1	0.1	0.3	1.0	1.7	3.4	8.2	20.9	42.3	72.2	79.0
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature	2.7	2.1	0.3	0.2	0.2	0.5	0.8	1.6	4.2	9.7	21.1	36.2
Diabetes mellitus	15.1	0.1	0.0	0.1	0.3	1.4	3.5	8.9	24.6	59.4	126.1	216.8
Nutritional deficiencies	1.1	0.5	0.0	0.0	0.0	0.0	0.1	0.2	0.6	2.2	9.0	46.6
Anemias	1.5	0.9	0.5	0.2	0.3	0.3	0.4	0.6	1.2	3.6	11.7	37.7
Meningitis	0.5	7.4	1.2	0.1	0.1	0.1	0.1	0.3	0.6	0.8	1.8	2.4
Major cardiovascular diseases	411.6	29.7	2.9	1.4	3.8	10.8	47.8	184.6	527.3	1,347.6	3,574.3	9,846.0
Diseases of heart	323.5	26.1	2.4	1.0	2.7	8.0	38.7	156.7	450.3	1,102.7	2,748.6	7,251.0
Rheumatic fever and rheumatic heart disease	2.9	0.1	0.1	0.0	0.2	0.3	0.9	2.4	5.9	12.4	21.1	24.8
Hypertensive heart disease	8.8	-	0.0	0.0	0.0	0.3	1.7	6.1	14.5	31.2	69.6	162.4
Hypertensive heart and renal disease	1.2	-	-	0.0	-	0.0	0.1	0.3	0.9	3.7	11.8	34.6
Ischemic heart disease	228.9	0.9	0.1	0.1	0.4	2.8	24.0	109.5	323.2	803.2	1,981.2	4,984.8
Acute myocardial infarction	118.0	0.6	0.0	0.1	0.2	1.7	15.1	70.5	203.7	475.3	1,009.8	1,747.7
Other acute and subacute forms of ischemic heart disease	1.7	0.0	0.0	0.0	0.0	0.1	0.4	1.5	3.6	6.4	11.8	25.6

See footnotes at end of table.

Table 9. Death rates for 72 selected causes by age: United States, 1984—Con.

[Rates per 100,000 population in specified group]

<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>
Major cardiovascular diseases—Con.												
Diseases of heart—Con.												
Ischemic heart disease—Con.												
Angina pectoris 413	0.4	0.0	-	-	-	0.0	0.0	0.2	0.5	1.3	3.2	6.7
Old myocardial infarction and other forms of chronic ischemic heart disease 412,414	108.8	0.3	0.1	0.1	0.1	1.0	8.4	37.3	115.4	320.2	956.5	3,204.8
Other diseases of endocardium 424	3.7	0.5	0.0	0.0	0.1	0.3	0.5	1.4	4.1	11.9	35.9	78.3
All other forms of heart disease 415-423,425-429	78.1	24.6	2.2	0.8	2.1	4.3	11.5	37.0	101.7	240.5	628.9	1,966.1
Hypertension with or without renal disease 401,403	3.3	0.0	0.0	0.0	0.0	0.1	0.4	1.4	4.2	11.2	28.4	76.4
Cerebrovascular diseases 430-438	65.3	3.0	0.4	0.3	0.8	2.2	7.5	22.6	55.8	177.0	626.2	1,883.8
Intracerebral and other intracranial hemorrhage 431-432	8.5	1.8	0.1	0.2	0.3	0.8	2.8	7.8	14.3	30.5	67.0	113.5
Cerebral thrombosis and unspecified occlusion of cerebral arteries 434.0,434.9	10.7	0.4	0.1	0.0	0.1	0.1	0.5	2.1	7.8	27.1	106.7	346.0
Cerebral embolism 434.1	0.3	-	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.2	3.3	6.1
All other and late effects of cerebrovascular diseases 430,433,435-438	45.7	0.8	0.2	0.1	0.5	1.4	4.2	12.6	33.4	118.3	449.1	1,418.3
Atherosclerosis 440	10.3	-	0.0	0.0	0.0	0.0	0.1	0.7	4.1	17.4	88.4	488.4
Other diseases of arteries, arterioles, and capillaries 441-448	9.2	0.5	0.1	0.1	0.2	0.4	1.0	3.2	12.9	39.2	82.6	146.4
Acute bronchitis and bronchiolitis 466	0.2	1.6	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.5	1.5	6.1
Pneumonia and influenza 480-487	24.9	18.8	1.5	0.5	0.6	1.6	3.0	6.6	16.8	53.7	216.0	883.2
Pneumonia 480-486	24.4	18.7	1.4	0.5	0.6	1.5	3.0	6.5	16.6	52.9	212.0	864.1
Influenza 487	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.8	4.0	19.2
Chronic obstructive pulmonary diseases and allied conditions 490-496	29.2	1.5	0.3	0.3	0.4	0.6	1.6	9.4	46.0	141.4	270.3	331.0
Bronchitis, chronic and unspecified 490-491	1.5	1.0	0.1	0.0	0.0	0.0	0.1	0.4	2.1	6.2	13.3	26.0
Emphysema 492	5.6	0.2	0.0	0.0	0.0	0.0	0.2	1.8	9.9	29.5	50.5	48.3
Asthma 493	1.5	0.3	0.1	0.2	0.3	0.4	0.7	1.6	3.0	5.4	8.2	11.5
Other chronic obstructive pulmonary diseases and allied conditions 494-496	20.6	0.1	0.1	0.0	0.0	0.1	0.5	5.7	31.0	100.3	198.3	245.2
Ulcer of stomach and duodenum 531-533	2.8	0.3	0.0	0.0	0.0	0.1	0.4	1.2	3.7	9.1	24.4	62.3
Appendicitis 540-543	0.2	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.3	0.7	1.6	3.0
Hernia of abdominal cavity and intestinal obstruction without mention of hernia 550-553,560	2.2	2.9	0.1	0.1	0.1	0.1	0.2	0.6	1.7	5.4	20.5	68.9
Chronic liver disease and cirrhosis 571	11.6	0.6	0.1	0.1	0.2	2.8	10.1	23.2	35.0	39.3	33.1	18.7
Cholelithiasis and other disorders of gallbladder 574-575	1.3	0.1	-	-	0.0	0.0	0.2	0.4	1.2	4.0	11.8	34.1
Nephritis, nephrotic syndrome, and nephrosis 580-589	8.5	7.5	0.2	0.1	0.2	0.6	1.3	3.1	9.2	26.8	76.1	201.0
Acute glomerulonephritis and nephrotic syndrome 580-581	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.4	1.3	2.3
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified 582-583,587	0.8	0.1	-	0.0	0.0	0.1	0.2	0.3	0.8	2.3	6.6	17.5
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause 584-586,588-589	7.6	7.3	0.1	0.1	0.2	0.5	1.0	2.7	8.3	24.1	68.2	181.1
Infections of kidney 590	0.9	0.1	0.0	0.0	0.0	0.1	0.1	0.3	0.7	2.2	8.2	27.4
Hyperplasia of prostate 600	0.2	-	-	-	-	-	-	0.0	0.1	0.5	2.5	8.3

Complications of pregnancy, childbirth, and the puerperium..... 630-676	0.1	...	...	0.0	0.2	0.4	0.2	0.0	...	...	...	...
Pregnancy with abortive outcome 630-638	0.0	...	...	0.0	0.1	0.1	0.0	0.0	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium 640-676	0.1	...	...	-	0.1	0.3	0.1	0.0	...	...	...	...
Congenital anomalies 740-759	5.5	234.4	6.7	1.4	1.3	1.1	1.1	1.6	2.2	2.5	3.8	5.8
Certain conditions originating in the perinatal period..... 760-779	8.0	512.4	1.0	0.1	0.0	0.0	0.0	0.0	0.0	-	-	-
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome 767-769	2.2	140.0	0.3	0.1	0.0	0.0	-	0.0	0.0	-	-	-
Other conditions originating in the perinatal period 760-766,770-779	5.8	372.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-
Symptoms, signs, and ill-defined conditions 780-799	12.6	161.1	1.8	0.3	1.8	3.5	4.3	7.2	15.0	29.0	61.9	182.5
All other diseases Residual	58.1	49.3	6.6	3.1	5.4	10.4	19.1	35.1	73.9	169.9	446.9	1,147.1
Accidents and adverse effects E800-E949	39.3	23.0	19.8	12.4	49.4	38.7	31.2	32.2	36.0	50.3	107.2	256.9
Motor vehicle accidents E810-E825	19.6	4.4	6.9	6.7	36.7	23.8	17.1	15.4	15.7	18.0	28.2	25.0
All other accidents and adverse effects E800-E807,E826-E949	19.7	18.6	12.9	5.7	12.6	14.9	14.1	16.8	20.3	32.3	79.0	231.9
Suicide..... E950-E959	12.4	...	...	0.7	12.5	15.5	15.1	16.2	17.3	18.8	22.0	18.4
Homicide and legal intervention E960-E978	8.4	6.5	2.4	1.3	12.0	14.7	11.3	8.5	5.8	4.2	4.4	4.3
All other external causes E980-E999	1.3	1.6	0.4	0.2	1.2	1.9	1.7	1.5	1.3	1.3	1.4	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, and 16 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, 1984

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	2,039,369	1,076,514	962,855	1,781,897	934,529	847,368	257,472	141,985	115,487	235,884	129,147	106,737
Shigellosis and amebiasis 004-006	18	11	7	16	11	5	2	-	2	1	-	1
Certain other intestinal infections . . . 007-009	331	156	175	245	102	143	86	54	32	80	51	29
Tuberculosis 010-018	1,729	1,149	580	1,047	689	358	682	460	222	619	425	194
Tuberculosis of respiratory system 010-012	1,342	932	410	828	575	253	514	357	157	463	328	135
Other tuberculosis 013-018	387	217	170	219	114	105	168	103	65	156	97	59
Whooping cough 033	7	2	5	6	2	4	1	-	1	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas 034-035	11	5	6	8	4	4	3	1	2	3	1	2
Meningococcal infection 036	300	146	154	226	107	119	74	39	35	70	37	33
Septicemia 038	15,028	7,068	7,960	11,976	5,602	6,374	3,052	1,466	1,586	2,897	1,383	1,514
Acute poliomyelitis 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles 055	1	1	-	1	1	-	-	-	-	-	-	-
Viral hepatitis 070	869	484	385	699	396	303	170	88	82	119	55	64
Syphilis 090-097	105	67	38	55	33	22	50	34	16	46	31	15
All other infectious and parasitic diseases 001-003, 005,020-032,037,039-041,046-054, 056-066,071-088,098-139	6,101	3,633	2,468	4,801	2,850	1,951	1,300	783	517	1,177	701	476
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	453,492	242,790	210,702	398,631	211,369	187,262	54,861	31,421	23,440	50,266	28,851	21,415
Malignant neoplasms of lip, oral cavity, and pharynx 140-149	8,462	5,765	2,697	7,078	4,688	2,390	1,384	1,077	307	1,248	985	263
Malignant neoplasms of digestive organs and peritoneum 150-159	116,616	60,824	55,792	101,250	52,314	48,936	15,366	8,510	6,856	13,745	7,561	6,184
Malignant neoplasms of respiratory and intrathoracic organs 160-165	123,699	86,336	37,363	109,199	75,437	33,762	14,500	10,899	3,601	13,461	10,181	3,280
Malignant neoplasm of breast . . . 174-175	39,722	250	39,472	35,469	213	35,256	4,253	37	4,216	3,981	36	3,945
Malignant neoplasms of genital organs 179-187	48,955	26,060	22,895	41,510	21,684	19,826	7,445	4,376	3,069	7,012	4,192	2,820
Malignant neoplasms of urinary organs 188-189	18,600	12,050	6,550	16,922	11,061	5,861	1,678	989	689	1,537	888	649
Malignant neoplasms of all other and unspecified sites 170-173,190-199	56,236	29,838	26,398	50,049	26,486	23,563	6,187	3,352	2,835	5,639	3,055	2,584
Leukemia 204-208	17,080	9,276	7,804	15,479	8,409	7,070	1,601	867	734	1,407	754	653
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203	24,122	12,391	11,731	21,675	11,077	10,598	2,447	1,314	1,133	2,236	1,199	1,037
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	6,436	2,920	3,516	5,656	2,568	3,088	780	352	428	697	308	389
Diabetes mellitus 250	35,787	14,859	20,928	29,466	12,450	17,016	6,321	2,409	3,912	5,810	2,160	3,650
Nutritional deficiencies 260-269	2,600	977	1,623	2,231	799	1,432	369	178	191	338	161	177
Anemias 280-285	3,527	1,545	1,982	2,844	1,203	1,641	683	342	341	640	315	325
Meningitis 320-322	1,194	650	544	846	472	374	348	178	170	319	164	155

Major cardiovascular diseases	390-448	973,418	485,019	488,399	687,397	431,917	435,480	106,021	53,102	52,919	98,159	48,491	49,668
Diseases of heart	390-398,402,404-429	765,114	397,097	368,017	684,511	355,454	329,057	80,603	41,643	38,960	74,698	38,034	36,664
Rheumatic fever and rheumatic heart disease	390-398	6,912	2,279	4,633	6,355	2,087	4,268	557	192	365	458	157	301
Hypertensive heart disease	402	20,712	8,892	11,820	15,237	6,302	8,935	5,475	2,590	2,885	5,276	2,474	2,802
Hypertensive heart and renal disease	404	2,855	1,151	1,704	2,165	853	1,312	690	298	392	665	287	378
Ischemic heart disease	410-414	541,288	289,461	251,827	495,457	265,597	229,860	45,831	23,864	21,967	41,862	21,374	20,488
Acute myocardial infarction	410	279,122	159,934	119,188	255,496	147,255	108,241	23,626	12,679	10,947	21,498	11,321	10,177
Other acute and subacute forms of ischemic heart disease	411	4,034	2,459	1,575	3,387	2,081	1,306	647	378	269	615	354	261
Angina pectoris	413	841	438	403	763	398	365	78	40	38	73	37	36
Old myocardial infarction and other forms of chronic ischemic heart disease	412,414	257,291	126,630	130,661	235,811	115,863	119,948	21,480	10,767	10,713	19,676	9,662	10,014
Other diseases of endocardium	424	8,722	4,118	4,604	7,918	3,725	4,193	804	393	411	717	353	364
All other forms of heart disease	415-423,425-429	184,625	91,196	93,429	157,379	76,890	80,489	27,246	14,306	12,940	25,720	13,389	12,331
Hypertension with or without renal disease	401,403	7,774	3,435	4,339	5,998	2,651	3,347	1,776	784	992	1,711	750	961
Cerebrovascular diseases	430-438	154,327	61,697	92,630	134,404	52,833	81,571	19,923	8,864	11,059	18,369	8,093	10,276
Intracerebral and other intracranial hemorrhage	431-432	20,192	9,018	11,174	16,682	7,269	9,413	3,510	1,749	1,761	3,155	1,564	1,591
Cerebral thrombosis and unspecified occlusion of cerebral arteries	434.0,434.9	25,284	10,082	15,202	22,609	8,867	13,742	2,675	1,215	1,460	2,501	1,115	1,386
Cerebral embolism	434.1	774	316	458	705	291	414	69	25	44	66	24	42
All other and late effects of cerebrovascular diseases	430,433,435-438	108,077	42,281	65,796	94,408	36,406	58,002	13,669	5,875	7,794	12,647	5,390	7,257
Atherosclerosis	440	24,462	9,240	15,222	22,645	8,447	14,198	1,817	793	1,024	1,684	720	964
Other diseases of arteries, arterioles, and capillaries	441-448	21,741	13,550	8,191	19,839	12,532	7,307	1,902	1,018	884	1,697	894	803
Acute bronchitis and bronchiolitis	466	544	260	284	482	230	252	62	30	32	56	28	28
Pneumonia and influenza	480-487	58,894	29,440	29,454	52,514	25,677	26,837	6,380	3,763	2,617	5,669	3,336	2,333
Pneumonia	480-486	57,798	29,024	28,774	51,473	25,289	26,184	6,325	3,735	2,590	5,626	3,314	2,312
Influenza	487	1,096	416	680	1,041	388	653	55	28	27	43	22	21
Chronic obstructive pulmonary diseases and allied conditions	490-496	69,100	44,013	25,087	64,276	40,728	23,548	4,824	3,285	1,539	4,293	2,922	1,371
Bronchitis, chronic and unspecified	490-491	3,545	2,029	1,516	3,359	1,912	1,447	186	117	69	166	105	61
Emphysema	492	13,263	8,926	4,337	12,547	8,369	4,178	716	557	159	627	480	147
Asthma	493	3,564	1,467	2,097	2,779	1,106	1,673	785	361	424	701	312	389
Other chronic obstructive pulmonary diseases and allied conditions	494-496	48,728	31,591	17,137	45,591	29,341	16,250	3,137	2,250	887	2,799	2,025	774
Ulcer of stomach and duodenum	531-533	6,570	3,227	3,343	5,933	2,865	3,068	637	362	275	562	313	249
Appendicitis	540-543	493	265	228	403	220	183	90	45	45	84	40	44
Hernia of abdominal cavity and intestinal obstruction without mention of hernia	550-553,560	5,300	2,029	3,271	4,659	1,731	2,928	641	298	343	602	274	328
Chronic liver disease and cirrhosis	571	27,317	17,558	9,759	22,909	14,783	8,126	4,408	2,775	1,633	3,901	2,458	1,443
Cholelithiasis and other disorders of gallbladder	574-575	3,023	1,387	1,636	2,752	1,272	1,480	271	115	156	228	89	139

Table 10. Deaths from 72 selected causes by race and sex: United States, 1984—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
Nephritis, nephrotic syndrome, and nephrosis. 580-589	20,126	10,051	10,075	16,198	8,174	8,024	3,928	1,877	2,051	3,666	1,731	1,935
Acute glomerulonephritis and nephrotic syndrome. 580-581	316	147	169	262	125	137	54	22	32	51	21	30
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified. 582-583,587	1,824	911	913	1,472	741	731	352	170	182	324	155	169
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause. 584-586,588-589	17,986	8,993	8,993	14,464	7,308	7,156	3,522	1,685	1,837	3,291	1,555	1,736
Infections of kidney. 590	2,077	713	1,364	1,805	597	1,208	272	116	156	248	107	141
Hyperplasia of prostate. 600	536	536	...	474	474	...	62	62	...	61	61	...
Complications of pregnancy, childbirth, and the puerperium. 630-676	285	...	285	159	...	159	126	...	126	117	...	117
Pregnancy with abortive outcome. 630-638	57	...	57	25	...	25	32	...	32	30	...	30
Other complications of pregnancy, childbirth, and the puerperium. . . 640-676	228	...	228	134	...	134	94	...	94	87	...	87
Congenital anomalies. 740-759	13,039	6,925	6,114	10,662	5,703	4,959	2,377	1,222	1,155	1,983	1,023	960
Certain conditions originating in the perinatal period. 760-779	18,881	10,659	8,222	12,471	7,135	5,336	6,410	3,524	2,886	6,002	3,290	2,712
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome. 767-769	5,163	3,071	2,092	3,700	2,234	1,466	1,463	837	626	1,346	767	579
Other conditions originating in the perinatal period. 760-766,770-779	13,718	7,588	6,130	8,771	4,901	3,870	4,947	2,687	2,260	4,656	2,523	2,133
Symptoms, signs, and ill-defined conditions. 780-799	29,721	16,711	13,010	22,796	12,682	10,114	6,925	4,029	2,896	6,511	3,784	2,727
All other diseases. Residual	137,497	67,304	70,193	117,626	56,773	60,853	19,871	10,531	9,340	18,312	9,677	8,635
Accidents and adverse effects. . . . E800-E949	92,911	64,053	28,858	79,222	54,227	24,995	13,689	9,826	3,863	11,687	8,399	3,288
Motor vehicle accidents. E810-E825	46,263	32,949	13,314	40,429	28,614	11,815	5,834	4,335	1,499	4,721	3,556	1,165
All other accidents and adverse effects. E800-E807, E826-E949	46,648	31,104	15,544	38,793	25,613	13,180	7,855	5,491	2,364	6,966	4,843	2,123
Suicide. E950-E959	29,286	22,689	6,597	27,002	20,882	6,120	2,284	1,807	477	1,760	1,432	328
Homicide and legal intervention. . . E960-E978	19,796	15,038	4,758	11,127	8,171	2,956	8,669	6,867	1,802	8,240	6,563	1,677
All other external causes. E980-E999	3,019	2,174	845	2,276	1,630	646	743	544	199	661	486	175

Table 11. Death rates for 72 selected causes by race and sex: United States, 1984

[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.....	862.3	935.9	792.7	885.2	951.1	822.3	731.5	846.4	627.0	828.5	958.1	712.0
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	0.1	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	0.3	1.9	2.7	1.2	2.2	3.2	1.3
Tuberculosis of respiratory system..... 010-012	0.6	0.8	0.3	0.4	0.6	0.2	1.5	2.1	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	0.6	0.4	0.5	0.7	0.4
Whooping cough..... 033	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	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	0.3	0.2
Septicemia..... 038	6.4	6.1	6.6	5.9	5.7	6.2	8.7	8.7	8.6	10.2	10.3	10.1
Acute poliomyelitis..... 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles..... 055	0.0	0.0	-	0.0	0.0	-	-	-	-	-	-	-
Viral hepatitis..... 070	0.4	0.4	0.3	0.3	0.4	0.3	0.5	0.5	0.4	0.4	0.4	0.4
Syphilis..... 090-097	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.2	0.1
All other infectious and parasitic diseases..... 001-003,005,020-032, 037,039-041,046-054,056-066,071-088,098-139	2.6	3.2	2.0	2.4	2.9	1.9	3.7	4.7	2.8	4.1	5.2	3.2
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	191.8	211.1	173.5	198.0	215.1	181.7	155.9	187.3	127.3	176.5	214.0	142.9
Malignant neoplasms of lip, oral cavity, and pharynx... 140-149	3.6	5.0	2.2	3.5	4.8	2.3	3.9	6.4	1.7	4.4	7.3	1.8
Malignant neoplasms of digestive organs and peritoneum..... 150-159	49.3	52.9	45.9	50.3	53.2	47.5	43.7	50.7	37.2	48.3	56.1	41.3
Malignant neoplasms of respiratory and intrathoracic organs..... 160-165	52.3	75.1	30.8	54.2	76.8	32.8	41.2	65.0	19.5	47.3	75.5	21.9
Malignant neoplasm of breast..... 174-175	16.8	0.2	32.5	17.6	0.2	34.2	12.1	0.2	22.9	14.0	0.3	26.3
Malignant neoplasms of genital organs..... 179-187	20.7	22.7	18.8	20.6	22.1	19.2	21.2	26.1	16.7	24.6	31.1	18.8
Malignant neoplasms of urinary organs..... 188-189	7.9	10.5	5.4	8.4	11.3	5.7	4.8	5.9	3.7	5.4	6.6	4.3
Malignant neoplasms of all other and unspecified sites..... 170-173,190-199	23.8	25.9	21.7	24.9	27.0	22.9	17.6	20.0	15.4	19.8	22.7	17.2
Leukemia..... 204-208	7.2	8.1	6.4	7.7	8.6	6.9	4.5	5.2	4.0	4.9	5.6	4.4
Other malignant neoplasms of lymphatic and hematopoietic tissues..... 200-203	10.2	10.8	9.7	10.8	11.3	10.3	7.0	7.8	6.2	7.9	8.9	6.9
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature..... 210-239	2.7	2.5	2.9	2.8	2.6	3.0	2.2	2.1	2.3	2.4	2.3	2.6
Diabetes mellitus..... 250	15.1	12.9	17.2	14.6	12.7	16.5	18.0	14.4	21.2	20.4	16.0	24.3
Nutritional deficiencies..... 260-269	1.1	0.8	1.3	1.1	0.8	1.4	1.0	1.1	1.0	1.2	1.2	1.2
Anemias..... 280-285	1.5	1.3	1.6	1.4	1.2	1.6	1.9	2.0	1.9	2.2	2.3	2.2
Meningitis..... 320-322	0.5	0.6	0.4	0.4	0.5	0.4	1.0	1.1	0.9	1.1	1.2	1.0
Major cardiovascular diseases..... 390-448	411.6	421.6	402.1	430.9	439.6	422.6	301.2	316.5	287.3	344.8	359.7	331.3
Diseases of heart..... 390-398,402,404-429	323.5	345.2	303.0	340.0	361.8	319.3	229.0	248.2	211.5	262.4	282.2	244.6
Rheumatic fever and rheumatic heart disease..... 390-398	2.9	2.0	3.8	3.2	2.1	4.1	1.6	1.1	2.0	1.6	1.2	2.0
Hypertensive heart disease..... 402	8.8	7.7	9.7	7.6	6.4	8.7	15.6	15.4	15.7	18.5	18.4	18.7
Hypertensive heart and renal disease..... 404	1.2	1.0	1.4	1.1	0.9	1.3	2.0	1.8	2.1	2.3	2.1	2.5
Ischemic heart disease..... 410-414	228.9	251.6	207.3	246.1	270.3	223.1	130.2	142.3	119.3	147.0	158.6	136.7
Acute myocardial infarction..... 410	118.0	139.0	98.1	126.9	149.9	105.0	67.1	75.6	59.4	75.5	84.0	67.9
Other acute and subacute forms of ischemic heart disease..... 411	1.7	2.1	1.3	1.7	2.1	1.3	1.8	2.3	1.5	2.2	2.6	1.7

Table 11. Death rates for 72 selected causes by race and sex: United States, 1984—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	0.3	0.4	0.4	0.4	0.2	0.2	0.2	0.3	0.3	0.2
Old myocardial infarction and other forms of chronic ischemic heart disease 412,414	108.8	110.1	107.6	117.1	117.9	116.4	61.0	64.2	58.2	69.1	71.7	66.8
Other diseases of endocardium 424	3.7	3.6	3.8	3.9	3.8	4.1	2.3	2.3	2.2	2.5	2.6	2.4
All other forms of heart disease 415–423,425–429	78.1	79.3	76.9	78.2	78.3	78.1	77.4	85.3	70.2	90.3	99.3	82.3
Hypertension with or without renal disease 401,403	3.3	3.0	3.6	3.0	2.7	3.2	5.0	4.7	5.4	6.0	5.6	6.4
Cerebrovascular diseases 430–438	65.3	53.6	76.3	66.8	53.8	79.2	56.6	52.8	60.0	64.5	60.0	68.5
Intracerebral and other intracranial hemorrhage 431–432	8.5	7.8	9.2	8.3	7.4	9.1	10.0	10.4	9.6	11.1	11.6	10.6
Cerebral thrombosis and unspecified occlusion of cerebral arteries 434,0,434,9	10.7	8.8	12.5	11.2	9.0	13.3	7.6	7.2	7.9	8.8	8.3	9.2
Cerebral embolism 434,1	0.3	0.3	0.4	0.4	0.3	0.4	0.2	0.1	0.2	0.2	0.2	0.3
All other and late effects of cerebrovascular diseases 430,433,435–438	45.7	36.8	54.2	46.9	37.1	56.3	38.8	35.0	42.3	44.4	40.0	48.4
Atherosclerosis 440	10.3	8.0	12.5	11.2	8.6	13.8	5.2	4.7	5.6	5.9	5.3	6.4
Other diseases of arteries, arterioles, and capillaries 441–448	9.2	11.8	6.7	9.9	12.8	7.1	5.4	6.1	4.8	6.0	6.6	5.4
Acute bronchitis and bronchiolitis 466	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Pneumonia and influenza 480–487	24.9	25.6	24.2	26.1	26.1	26.0	18.1	22.4	14.2	19.9	24.7	15.6
Pneumonia 480–486	24.4	25.2	23.7	25.6	25.7	25.4	18.0	22.3	14.1	19.8	24.6	15.4
Influenza 487	0.5	0.4	0.6	0.5	0.4	0.6	0.2	0.2	0.1	0.2	0.2	0.1
Chronic obstructive pulmonary diseases and allied conditions 490–496	29.2	38.3	20.7	31.9	41.5	22.9	13.7	19.6	8.4	15.1	21.7	9.1
Bronchitis, chronic and unspecified 490–491	1.5	1.8	1.2	1.7	1.9	1.4	0.5	0.7	0.4	0.6	0.8	0.4
Emphysema 492	5.6	7.8	3.6	6.2	8.5	4.1	2.0	3.3	0.9	2.2	3.6	1.0
Asthma 493	1.5	1.3	1.7	1.4	1.1	1.6	2.2	2.2	2.3	2.5	2.3	2.6
Other chronic obstructive pulmonary diseases and allied conditions 494–496	20.6	27.5	14.1	22.6	29.9	15.8	8.9	13.4	4.8	9.8	15.0	5.2
Ulcer of stomach and duodenum 531–533	2.8	2.8	2.8	2.9	2.9	3.0	1.8	2.2	1.5	2.0	2.3	1.7
Appendicitis 540–543	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3
Hernia of abdominal cavity and intestinal obstruction without mention of hernia 550–553,560	2.2	1.8	2.7	2.3	1.8	2.8	1.8	1.8	1.9	2.1	2.0	2.2
Chronic liver disease and cirrhosis 571	11.6	15.3	8.0	11.4	15.0	7.9	12.5	16.5	8.9	13.7	18.2	9.6
Cholelithiasis and other disorders of gallbladder 574–575	1.3	1.2	1.3	1.4	1.3	1.4	0.8	0.7	0.8	0.8	0.7	0.9
Nephritis, nephrotic syndrome, and nephrosis 580–589	8.5	8.7	8.3	8.0	8.3	7.8	11.2	11.2	11.1	12.9	12.8	12.9
Acute glomerulonephritis and nephrotic syndrome 580–581	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified 582–583,587	0.8	0.8	0.8	0.7	0.8	0.7	1.0	1.0	1.0	1.1	1.1	1.1
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause 584–586,588–589	7.6	7.8	7.4	7.2	7.4	6.9	10.0	10.0	10.0	11.6	11.5	11.6
Infections of kidney 590	0.9	0.6	1.1	0.9	0.6	1.2	0.8	0.7	0.8	0.9	0.8	0.9
Hyperplasia of prostate 600	0.2	0.5	...	0.2	0.5	...	0.2	0.4	...	0.2	0.5	...

Complications of pregnancy, childbirth, and the puerperium.....	630-676	0.1	...	0.2	0.1	...	0.2	0.4	...	0.7	0.4	...	0.8
Pregnancy with abortive outcome	630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.2	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	5.5	6.0	5.0	5.3	5.8	4.8	6.8	7.3	6.3	7.0	7.6	6.4
Certain conditions originating in the perinatal period. . .	760-779	8.0	9.3	6.8	6.2	7.3	5.2	18.2	21.0	15.7	21.1	24.4	18.1
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome.....	767-769	2.2	2.7	1.7	1.8	2.3	1.4	4.2	5.0	3.4	4.7	5.7	3.9
Other conditions originating in the perinatal period.	760-766,770-779	5.8	6.6	5.0	4.4	5.0	3.8	14.1	16.0	12.3	16.4	18.7	14.2
Symptoms, signs, and ill-defined conditions.	780-799	12.6	14.5	10.7	11.3	12.9	9.8	19.7	24.0	15.7	22.9	28.1	18.2
All other diseases	Residual	58.1	58.5	57.8	58.4	57.8	59.1	56.5	62.8	50.7	64.3	71.8	57.6
Accidents and adverse effects	E800-E949	39.3	55.7	23.8	39.4	55.2	24.3	38.9	58.6	21.0	41.0	62.3	21.9
Motor vehicle accidents	E810-E825	19.6	28.6	11.0	20.1	29.1	11.5	16.6	25.8	8.1	16.6	26.4	7.8
All other accidents and adverse effects	E800-E807,E826-E949	19.7	27.0	12.8	19.3	26.1	12.8	22.3	32.7	12.8	24.5	35.9	14.2
Suicide.....	E950-E959	12.4	19.7	5.4	13.4	21.3	5.9	6.5	10.8	2.6	6.2	10.6	2.2
Homicide and legal intervention	E960-E978	8.4	13.1	3.9	5.5	8.3	2.9	24.6	40.9	9.8	28.9	48.7	11.2
All other external causes.....	E980-E999	1.3	1.9	0.7	1.1	1.7	0.6	2.1	3.2	1.1	2.3	3.6	1.2

Table 12. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1984

[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 other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes	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
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	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.3	0.2
Tuberculosis 010-018	0.5	0.8	0.3	0.3	0.5	0.2	2.0	3.1	1.1	2.2	3.6	1.2
Tuberculosis of respiratory system 010-012	0.4	0.7	0.2	0.3	0.4	0.1	1.5	2.5	0.8	1.7	2.8	0.8
Other tuberculosis 013-018	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.7	0.3	0.5	0.8	0.4
Whooping cough 033	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	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	3.7	4.4	3.2	3.2	3.8	2.7	7.8	9.1	6.9	8.9	10.5	7.8
Acute poliomyelitis 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles 055	0.0	0.0	-	0.0	0.0	-	-	-	-	-	-	-
Viral hepatitis 070	0.3	0.4	0.2	0.3	0.4	0.2	0.5	0.6	0.5	0.4	0.4	0.4
Syphilis 090-097	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.1
All other infectious and parasitic diseases 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	2.1	2.8	1.4	1.8	2.5	1.2	3.8	5.1	2.8	4.3	5.8	3.2
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	133.5	164.6	111.1	130.2	159.0	109.9	157.8	209.7	119.4	174.8	234.9	131.0
Malignant neoplasms of lip, oral cavity, and pharynx 140-149	2.7	4.2	1.4	2.5	3.7	1.4	4.4	7.8	1.7	4.9	8.8	1.8
Malignant neoplasms of digestive organs and peritoneum 150-159	32.1	40.6	25.4	30.6	38.6	24.5	43.3	57.1	32.7	46.6	61.8	35.2
Malignant neoplasms of respiratory and intrathoracic organs 160-165	38.4	60.3	21.4	37.7	58.4	21.6	43.7	75.2	19.5	49.2	85.9	21.4
Malignant neoplasm of breast 174-175	12.7	0.2	23.2	12.6	0.2	23.1	13.0	0.3	23.1	14.8	0.3	26.1
Malignant neoplasms of genital organs 179-187	13.1	15.0	12.7	12.3	13.8	12.3	19.6	26.1	15.8	22.1	30.2	17.4
Malignant neoplasms of urinary organs 188-189	5.0	7.8	2.9	5.1	8.0	2.9	4.6	6.5	3.2	5.1	7.0	3.6
Malignant neoplasms of all other and unspecified sites 170-173,190-199	17.3	21.3	14.1	17.3	21.2	14.0	17.8	22.5	14.1	19.7	25.2	15.4
Leukemia 204-208	5.1	6.4	4.1	5.2	6.5	4.1	4.5	5.6	3.7	4.8	5.9	3.9
Other malignant neoplasms of lymphatic and hematopoietic tissues 200-203	7.2	8.7	5.9	7.2	8.7	5.9	7.0	8.7	5.6	7.8	9.8	6.1
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	1.8	2.0	1.7	1.7	1.9	1.6	2.1	2.3	2.0	2.3	2.5	2.2
Diabetes mellitus 250	9.5	9.8	9.2	8.5	9.0	8.0	17.4	16.0	18.4	19.3	17.6	20.5
Nutritional deficiencies 260-269	0.5	0.5	0.5	0.4	0.5	0.4	0.8	1.0	0.7	0.9	1.1	0.8
Anemias 280-285	0.9	1.0	0.8	0.7	0.8	0.7	1.8	2.0	1.6	2.1	2.3	1.8
Meningitis 320-322	0.4	0.5	0.4	0.4	0.5	0.3	0.9	1.0	0.8	1.1	1.2	0.9
Major cardiovascular diseases 390-448	228.4	304.0	169.0	221.7	298.7	161.0	275.9	341.3	225.5	307.7	381.0	251.6
Diseases of heart 390-398,402,404-429	183.6	252.2	129.3	179.5	249.5	124.0	211.2	268.8	166.8	235.8	300.1	186.6
Rheumatic fever and rheumatic heart disease 390-398	2.0	1.6	2.3	2.0	1.6	2.4	1.7	1.3	1.9	1.7	1.3	1.9
Hypertensive heart disease 402	5.3	6.0	4.6	4.1	4.6	3.5	15.4	17.7	13.5	18.0	20.7	15.7
Hypertensive heart and renal disease 404	0.6	0.7	0.5	0.5	0.5	0.4	1.8	1.9	1.7	2.0	2.2	1.9
Ischemic heart disease 410-414	129.7	183.8	87.2	130.5	187.0	86.0	119.3	154.0	92.7	131.1	168.5	102.6
Acute myocardial infarction 410	72.4	105.3	46.4	73.3	107.8	45.9	63.6	83.1	48.7	69.7	90.7	53.9
Other acute and subacute forms of ischemic heart disease 411	1.1	1.7	0.6	1.0	1.6	0.6	1.8	2.5	1.2	2.1	2.8	1.4

Angina pectoris	413	0.2	0.3	0.2	0.2	0.3	0.1	0.2	0.3	0.2	0.2	0.3	0.2
Old myocardial infarction and other forms of chronic ischemic heart disease.	412,414	56.0	76.5	40.0	56.0	77.3	39.4	53.6	68.1	42.5	59.0	74.5	47.1
Other diseases of endocardium.	424	2.1	2.6	1.7	2.0	2.6	1.6	2.1	2.5	1.8	2.3	2.8	1.9
All other forms of heart disease	415-423,425-429	43.8	57.5	33.0	40.3	53.3	30.1	71.0	91.4	55.2	80.8	104.7	62.6
Hypertension with or without renal disease.	401,403	1.8	2.1	1.6	1.5	1.8	1.3	4.7	5.1	4.4	5.5	6.0	5.1
Cerebrovascular diseases.	430-438	33.4	36.4	31.1	31.1	33.9	28.9	51.1	56.3	46.9	56.7	62.8	51.8
Intracerebral and other intracranial hemorrhage.	431-432	5.7	6.1	5.2	5.0	5.4	4.7	10.4	12.1	9.0	11.5	13.5	9.8
Cerebral thrombosis and unspecified occlusion of cerebral arteries.	434.0,434.9	5.1	5.7	4.6	4.9	5.5	4.4	6.6	7.6	5.8	7.4	8.5	6.5
Cerebral embolism	434.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
All other and late effects of cerebrovascular diseases	430,433,435-438	22.5	24.3	21.1	21.1	22.9	19.7	33.9	36.4	31.9	37.6	40.7	35.2
Atherosclerosis.	440	4.2	4.8	3.7	4.2	4.8	3.7	3.8	4.4	3.3	4.2	4.9	3.7
Other diseases of arteries, arterioles, and capillaries.	441-448	5.4	8.5	3.2	5.4	8.6	3.1	5.1	6.6	4.0	5.5	7.1	4.3
Acute bronchitis and bronchiolitis	466	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.1
Pneumonia and influenza	480-487	12.2	16.7	9.1	11.6	15.8	8.8	15.8	23.0	10.5	17.2	25.2	11.3
Pneumonia.	480-486	12.0	16.5	8.9	11.4	15.6	8.6	15.7	22.8	10.4	17.1	25.0	11.2
Influenza	487	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1
Chronic obstructive pulmonary diseases and allied conditions	490-496	17.7	27.0	11.4	18.2	27.6	11.8	13.1	21.0	7.5	14.2	22.8	8.1
Bronchitis, chronic and unspecified	490-491	0.9	1.2	0.6	0.9	1.3	0.6	0.5	0.7	0.3	0.5	0.8	0.3
Emphysema	492	3.5	5.5	2.0	3.6	5.8	2.2	2.0	3.6	0.8	2.1	3.8	0.8
Asthma	493	1.1	1.1	1.2	1.0	0.9	1.0	2.3	2.4	2.3	2.6	2.5	2.6
Other chronic obstructive pulmonary diseases and allied conditions	494-496	12.2	19.1	7.5	12.6	19.6	7.9	8.3	14.3	4.1	9.0	15.7	4.3
Ulcer of stomach and duodenum.	531-533	1.6	2.0	1.2	1.5	1.9	1.2	1.7	2.4	1.2	1.9	2.5	1.3
Appendicitis	540-543	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.3	0.3	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	1.5	1.8	1.4	1.7	2.0	1.6
Chronic liver disease and cirrhosis.	571	10.0	14.1	6.4	9.3	13.2	5.9	14.3	20.2	9.5	15.8	22.5	10.3
Cholelithiasis and other disorders of gallbladder.	574-575	0.7	0.8	0.6	0.6	0.8	0.6	0.7	0.7	0.6	0.7	0.7	0.7
Nephritis, nephrotic syndrome, and nephrosis.	580-589	4.7	6.0	3.9	4.1	5.3	3.3	10.0	11.6	8.9	11.2	13.0	10.0
Acute glomerulonephritis and nephrotic syndrome.	580-581	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified	582-583,587	0.4	0.6	0.4	0.4	0.5	0.3	0.9	1.0	0.8	1.0	1.1	0.9
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause.	584-586,588-589	4.2	5.3	3.5	3.6	4.7	2.9	9.0	10.4	8.0	10.1	11.7	8.9
Infections of kidney	590	0.4	0.4	0.5	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.8	0.7
Hyperplasia of prostate	600	0.1	0.3	...	0.1	0.3	...	0.1	0.3	...	0.2	0.4	...
Complications of pregnancy, childbirth, and the puerperium	630-676	0.1	...	0.2	0.1	...	0.2	0.3	...	0.7	0.4	...	0.7
Pregnancy with abortive outcome	630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.2	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	5.4	5.7	5.1	5.4	5.7	5.0	5.7	5.9	5.5	5.9	6.2	5.6
Certain conditions originating in the perinatal period.	760-779	7.9	8.8	7.1	6.5	7.2	5.7	14.4	15.7	13.1	16.6	18.1	15.1
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome	767-769	2.2	2.5	1.8	1.9	2.2	1.6	3.3	3.7	2.8	3.7	4.2	3.2
Other conditions originating in the perinatal period	760-766,770-779	5.8	6.2	5.3	4.5	4.9	4.1	11.1	12.0	10.3	12.9	13.9	11.9
Symptoms, signs, and ill-defined conditions	780-799	9.2	12.0	6.7	7.9	10.4	5.7	17.7	23.8	12.8	20.4	27.7	14.6
All other diseases.	Residual	36.2	44.5	29.7	33.6	41.2	27.6	54.1	67.7	43.3	61.0	77.2	48.3

Table 12. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1984—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 other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Accidents and adverse effects. E800-E949	35.0	52.3	18.7	34.6	51.3	18.5	38.5	60.5	19.5	40.6	64.7	20.1
Motor vehicle accidents. E810-E825	19.1	28.0	10.5	19.6	28.4	10.9	16.6	26.5	8.1	16.7	27.2	7.6
All other accidents and adverse effects. E800-E807, E826-E949	15.9	24.3	8.2	15.0	22.9	7.6	21.9	34.0	11.5	23.9	37.5	12.5
Suicide. E950-E959	11.6	18.7	5.2	12.4	19.7	5.6	6.6	11.2	2.7	6.4	11.2	2.3
Homicide and legal intervention. E960-E978	8.4	13.0	3.9	5.5	8.2	2.9	24.9	42.2	9.6	29.5	50.8	11.0
All other external causes. E980-E999	1.2	1.8	0.6	1.1	1.6	0.6	2.2	3.4	1.1	2.4	3.9	1.2

Table 13. Deaths under 1 year and infant mortality rates for the 10 leading causes of infant death: United States, 1984

[Rates per 100,000 live births]

<i>Rank order</i>	<i>Cause of death (Ninth Revision International Classification of Diseases, 1975)</i>	<i>Number</i>	<i>Rate</i>
...	All causes.....	39,580	1,078.7
1	Congenital anomalies..... 740-759	8,548	233.0
2	Sudden infant death syndrome..... 798.0	5,245	142.9
3	Respiratory distress syndrome..... 769	3,557	96.9
4	Disorders relating to short gestation and unspecified low birthweight..... 765	3,262	88.9
5	Newborn affected by maternal complications of pregnancy..... 761	1,406	38.3
6	Intrauterine hypoxia and birth asphyxia..... 768	1,170	31.9
7	Infections specific to the perinatal period..... 771	889	24.2
8	Newborn affected by complications of placenta, cord, and membranes..... 762	887	24.2
9	Accidents and adverse effects..... E800-E949	838	22.8
10	Pneumonia and influenza..... 480-487	685	18.7
...	All other causes..... Residual	13,093	356.8

Table 14. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1984

[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	Total	White	Black	White	Total	White	Black
	Number				Rate			
All causes	39,580	27,608	11,972	10,881	1,078.7	944.3	1,605.6	1,835.7
Certain intestinal infections 008-009	138	72	66	62	3.8	2.5	8.9	10.5
Whooping cough 033	7	6	1	-	0.2	0.2	0.1	-
Meningococcal infection 036	66	58	8	7	1.8	2.0	1.1	1.2
Septicemia 038	296	182	114	100	8.1	6.2	15.3	16.9
Viral diseases 045-079	114	78	36	33	3.1	2.7	4.8	5.6
Congenital syphilis 090	6	3	3	3	0.2	0.1	0.4	0.5
Remainder of infectious and parasitic diseases 001-007, 010-032,034-035,037,039-041,080-088,091-139	95	57	38	34	2.6	1.9	5.1	5.7
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues 140-208	114	83	31	16	3.1	2.8	4.2	2.7
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature 210-239	78	61	17	12	2.1	2.1	2.3	2.0
Diseases of thymus gland 254	2	2	-	-	0.1	0.1	-	-
Cystic fibrosis 277.0	28	26	2	2	0.8	0.9	0.3	0.3
Diseases of blood and blood-forming organs 280-289	87	60	27	19	2.4	2.1	3.6	3.2
Meningitis 320-322	268	172	96	79	7.3	5.9	12.9	13.3
Other diseases of nervous system and sense organs 323-389	450	348	102	78	12.3	11.9	13.7	13.2
Acute upper respiratory infections 460-465	56	35	21	19	1.5	1.2	2.8	3.2
Bronchitis and bronchiolitis 466,490-491	95	56	39	38	2.6	1.9	5.2	6.4
Pneumonia and influenza 480-487	685	441	244	220	18.7	15.1	32.7	37.1
Pneumonia 480-486	680	439	241	218	18.5	15.0	32.3	36.8
Influenza 487	5	2	3	2	0.1	0.1	0.4	0.3
Remainder of diseases of respiratory system 470-478,492-519	484	326	158	143	13.2	11.2	21.2	24.1
Hernia of abdominal cavity and intestinal obstruction without mention of hernia 550-553,560	105	79	26	24	2.9	2.7	3.5	4.0
Gastritis, duodenitis, and noninfective enteritis and colitis 535,555-558	123	66	57	47	3.4	2.3	7.6	7.9
Remainder of diseases of digestive system 520-534,536-543,562-579	204	130	74	68	5.6	4.4	9.9	11.5
Congenital anomalies 740-759	8,548	6,875	1,673	1,389	233.0	235.2	224.4	234.3
Anencephalus and similar anomalies 740	677	591	86	57	18.5	20.2	11.5	9.6
Spina bifida 741	95	81	14	11	2.6	2.8	1.9	1.9
Congenital hydrocephalus 742.3	222	163	59	54	6.1	5.6	7.9	9.1
Other congenital anomalies of central nervous system and eye 742.0-742.2,742.4-742.9,743	307	232	75	64	8.4	7.9	10.1	10.8
Congenital anomalies of heart 745-746	2,557	2,040	517	444	69.7	69.8	69.3	74.9
Other congenital anomalies of circulatory system 747	822	593	229	190	22.4	20.3	30.7	32.1
Congenital anomalies of respiratory system 748	913	740	173	143	24.9	25.3	23.2	24.1
Congenital anomalies of digestive system 749-751	152	115	37	31	4.1	3.9	5.0	5.2
Congenital anomalies of genitourinary system 752-753	495	423	72	58	13.5	14.5	9.7	9.8
Congenital anomalies of musculoskeletal system 754-756	681	574	107	92	18.6	19.6	14.4	15.5
Down's syndrome 758.0	98	75	23	17	2.7	2.6	3.1	2.9
Other chromosomal anomalies 758.1-758.9	687	567	120	97	18.7	19.4	16.1	16.4
All other and unspecified congenital anomalies 744,757,759	842	681	161	131	22.9	23.3	21.6	22.1
Certain conditions originating in the perinatal period 760-779	18,682	12,331	6,351	5,950	509.2	421.8	851.8	1,003.8
Newborn affected by maternal conditions which may be unrelated to present pregnancy 760	138	87	51	47	3.8	3.0	6.8	7.9
Newborn affected by maternal complications of pregnancy 761	1,406	986	420	398	38.3	33.7	56.3	67.1
Newborn affected by complications of placenta, cord, and membranes 762	887	651	236	212	24.2	22.3	31.7	35.8
Newborn affected by other complications of labor and delivery 763	65	52	13	11	1.8	1.8	1.7	1.9
Slow fetal growth and fetal malnutrition 764	37	27	10	9	1.0	0.9	1.3	1.5
Disorders relating to short gestation and unspecified low birthweight 765	3,262	1,900	1,362	1,291	88.9	65.0	182.7	217.0
Disorders relating to long gestation and high birthweight 766	1	1	-	-	0.0	0.0	-	-
Birth trauma 767	376	268	108	101	10.2	9.2	14.5	17.0

Table 16. 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: 1984

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	2,039,369	862.3	39,580	10.8	25,691	7.0
Male	1,076,514	935.9	22,359	11.9	14,400	7.7
Female	962,855	792.7	17,221	9.6	11,291	6.3
White	1,781,897	885.2	27,608	9.4	18,058	6.2
Male	934,529	951.1	15,805	10.5	10,240	6.8
Female	847,368	822.3	11,803	8.3	7,818	5.5
All other	257,472	731.5	11,972	16.1	7,633	10.2
Male	141,985	846.4	6,554	17.3	4,160	11.0
Female	115,487	627.0	5,418	14.8	3,473	9.5
Black	235,884	828.5	10,881	18.4	7,002	11.8
Male	129,147	958.1	5,961	19.8	3,811	12.7
Female	106,737	712.0	4,920	16.9	3,191	10.9
New England	116,062	922.7	1,620	9.4	1,110	6.4
Maine	10,873	940.6	141	8.4	85	5.1
New Hampshire	8,039	822.0	145	10.2	101	7.1
Vermont	4,532	855.1	70	8.7	44	5.5
Massachusetts	55,332	954.3	701	9.0	477	6.1
Rhode Island	9,435	980.8	125	9.9	88	7.0
Connecticut	27,851	882.8	438	10.4	315	7.5
Middle Atlantic	362,208	975.0	5,512	10.8	3,769	7.4
New York	170,762	962.3	2,765	11.0	1,875	7.5
New Jersey	69,437	923.7	1,109	10.9	763	7.5
Pennsylvania	122,009	1,026.4	1,638	10.4	1,131	7.2
East North Central	362,991	873.1	7,026	11.2	4,646	7.4
Ohio	96,996	903.1	1,653	10.4	1,071	6.8
Indiana	47,449	864.0	890	11.1	571	7.1
Illinois	100,911	875.8	2,161	12.1	1,447	8.1
Michigan	76,588	845.5	1,597	11.7	1,099	8.1
Wisconsin	41,047	862.0	725	9.9	458	6.8
West North Central	158,976	908.2	2,623	9.6	1,641	6.8
Minnesota	33,766	811.1	596	8.9	370	5.8
Iowa	27,020	930.8	374	8.8	250	5.9
Missouri	49,131	982.4	777	10.4	479	6.4
North Dakota	5,546	807.3	96	8.1	53	4.5
South Dakota	6,533	926.7	124	10.0	68	5.5
Nebraska	14,673	914.2	252	9.6	161	6.2
Kansas	22,307	914.2	404	10.1	260	6.5
South Atlantic	350,085	885.6	7,033	12.2	4,718	8.2
Delaware	5,098	830.3	100	10.8	70	7.6
Maryland	35,466	815.5	773	11.8	532	8.1
District of Columbia	6,762	1,081.9	203	21.0	155	16.0
Virginia	44,310	786.2	1,005	12.1	716	8.7
West Virginia	19,207	984.5	270	11.0	175	7.1
North Carolina	51,046	827.9	1,066	12.4	698	8.1
South Carolina	26,374	798.7	743	14.7	495	9.8
Georgia	46,595	797.6	1,189	12.9	803	8.7
Florida	115,227	1,042.8	1,684	10.8	1,074	6.9
East South Central	136,440	907.6	2,782	12.6	1,824	8.2
Kentucky	33,631	904.1	615	11.5	393	7.4
Tennessee	42,334	895.8	769	11.8	517	8.0
Alabama	36,536	915.9	766	12.9	518	8.7
Mississippi	23,939	921.4	632	14.4	396	9.0
West South Central	205,700	785.1	5,087	10.8	3,237	6.9
Arkansas	23,595	1,005.8	380	10.9	239	6.9
Louisiana	35,741	801.2	982	12.1	654	8.0
Oklahoma	29,343	886.5	598	11.0	384	7.0
Texas	117,021	727.6	3,127	10.5	1,960	6.6
Mountain	86,831	691.2	2,255	9.7	1,317	5.7
Montana	6,711	815.4	125	8.8	63	4.5
Idaho	7,251	725.8	176	9.8	91	5.0
Wyoming	3,189	621.6	108	11.1	69	7.1
Colorado	20,394	639.3	552	10.2	316	5.8

See footnotes and note at end of table.

Table 16. 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: 1984—Con.

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
Mountain—Con.						
New Mexico	9,562	670.5	263	9.6	164	6.0
Arizona	23,972	780.3	525	9.5	312	5.7
Utah	8,997	554.3	350	9.1	213	5.6
Nevada	6,755	736.6	156	10.5	89	6.0
Pacific	260,076	756.9	5,642	9.6	3,429	5.8
Washington	33,814	777.5	703	10.2	373	5.4
Oregon	23,162	865.5	390	9.9	190	4.8
California	195,531	758.0	4,224	9.4	2,673	6.0
Alaska	1,929	382.0	140	11.2	71	5.7
Hawaii	5,640	543.9	185	9.9	122	6.5

¹Per 100,000 population in each race-sex group and area.
²Per 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 17. 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: 1984[Rates per 100,000 population in each race-sex group and area. Numbers after causes of death are category numbers of the *Ninth Revision International Classification of Diseases, 1975*]

Race, sex, and area	Diseases of heart (390-398,402, 404-429)		Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (140-208)		Cerebrovascular diseases (430-438)		Accidents and adverse effects (E800-E949)		Motor vehicle accidents (E810-E825)		Suicide (E950-E959)	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
United States	765,114	323.5	453,492	191.8	154,327	65.3	92,911	39.3	46,263	19.6	29,286	12.4
Male	397,097	345.2	242,790	211.1	61,697	53.6	64,053	55.7	32,949	28.6	22,689	19.7
Female	368,017	303.0	210,702	173.5	92,630	76.3	28,858	23.8	13,314	11.0	6,597	5.4
White	684,511	340.0	398,631	198.0	134,404	66.8	79,222	39.4	40,429	20.1	27,002	13.4
Male	355,454	361.8	211,369	215.1	52,833	53.8	54,227	55.2	28,614	29.1	20,882	21.3
Female	329,057	319.3	187,262	181.7	81,571	79.2	24,995	24.3	11,815	11.5	6,120	5.9
All other	80,603	229.0	54,861	155.9	19,923	56.6	13,689	38.9	5,834	16.6	2,284	6.5
Male	41,643	248.2	31,421	187.3	8,864	52.8	9,826	58.6	4,335	25.8	1,807	10.8
Female	38,960	211.5	23,440	127.3	11,059	60.0	3,863	21.0	1,499	8.1	477	2.6
Black	74,698	262.4	50,266	176.5	18,369	64.5	11,687	41.0	4,721	16.6	1,760	6.2
Male	38,034	282.2	28,851	214.0	8,093	60.0	8,399	62.3	3,556	26.4	1,432	10.6
Female	36,664	244.6	21,415	142.9	10,276	68.5	3,288	21.9	1,165	7.8	328	2.2
New England	44,711	355.5	27,410	217.9	7,995	63.6	4,096	32.6	1,889	15.0	1,272	10.1
Maine	4,251	367.7	2,430	210.2	790	68.3	445	38.5	234	20.2	169	14.6
New Hampshire	3,071	314.0	1,882	192.4	564	57.7	338	34.6	189	19.3	123	12.6
Vermont	1,696	320.0	1,054	198.9	289	54.5	201	37.9	104	19.6	82	15.5
Massachusetts	21,432	369.6	13,072	225.5	3,861	66.6	1,871	32.3	772	13.3	527	9.1
Rhode Island	3,743	389.1	2,318	241.0	624	64.9	270	28.1	109	11.3	95	9.9
Connecticut	10,518	333.4	6,654	210.9	1,867	59.2	971	30.8	481	15.2	276	8.7
Middle Atlantic	149,788	403.2	82,022	220.8	23,364	62.9	11,740	31.6	5,045	13.6	3,433	9.2
New York	73,255	412.8	37,670	212.3	10,356	58.4	5,306	29.9	2,191	12.3	1,387	7.2
New Jersey	27,627	367.5	16,746	222.8	4,626	61.5	2,209	29.4	974	13.0	626	8.8
Pennsylvania	48,906	411.4	27,606	232.2	8,382	70.5	4,225	35.5	1,880	15.8	1,420	11.9
East North Central	142,346	342.4	81,788	196.7	27,544	66.3	13,919	33.5	6,884	16.6	4,876	11.7
Ohio	37,885	352.7	22,296	207.6	7,175	66.8	3,522	32.8	1,673	15.6	1,262	11.8
Indiana	17,910	326.1	10,798	196.6	4,007	73.0	1,988	36.2	992	18.1	654	11.9
Illinois	40,088	347.9	22,557	195.8	7,376	64.0	3,740	32.5	1,726	15.0	1,207	10.5
Michigan	30,168	333.1	16,967	187.3	5,633	62.2	3,068	33.9	1,634	18.0	1,144	12.6
Wisconsin	16,295	342.2	9,170	192.6	3,353	70.4	1,601	33.6	859	18.0	609	12.8
West North Central	59,721	341.2	34,079	194.7	13,263	75.8	7,007	40.0	3,270	18.7	2,092	12.0
Minnesota	12,140	291.6	7,555	181.5	2,842	68.3	1,523	36.6	676	16.2	443	10.6
Iowa	10,589	364.8	5,835	201.0	2,413	83.1	1,021	35.2	483	16.6	347	12.0
Missouri	18,250	364.9	10,484	209.6	3,967	79.3	2,083	41.7	984	19.7	665	13.3
North Dakota	2,076	302.2	1,219	177.4	430	62.6	302	44.0	122	17.8	78	11.4
South Dakota	2,587	367.0	1,342	190.4	519	73.6	345	48.9	158	22.4	91	12.9
Nebraska	5,642	351.5	3,092	192.6	1,280	79.8	644	40.1	285	17.8	167	10.4
Kansas	8,437	345.8	4,552	186.6	1,812	74.3	1,089	44.6	562	23.0	301	12.3
South Atlantic	128,224	324.3	78,808	199.3	27,874	70.5	17,029	43.1	8,947	22.6	5,287	13.4
Delaware	1,987	323.6	1,269	206.7	278	45.3	222	36.2	132	21.5	71	11.6
Maryland	12,928	297.3	8,588	197.5	2,319	53.3	1,393	32.0	666	15.3	471	10.8
District of Columbia	2,179	348.6	1,550	248.0	418	66.9	215	34.4	84	13.4	54	8.6
Virginia	16,003	283.9	10,039	178.1	3,484	61.8	2,177	38.6	1,007	17.9	712	12.6
West Virginia	7,949	407.4	4,024	206.3	1,434	73.5	850	43.6	436	22.3	238	12.2
North Carolina	18,870	306.0	10,652	172.8	4,513	73.2	2,887	46.8	1,489	24.1	811	13.2
South Carolina	9,353	283.3	5,525	167.3	2,379	72.0	1,719	52.1	946	28.6	390	11.8
Georgia	16,179	276.9	9,693	165.9	4,283	73.3	2,708	46.4	1,448	24.8	720	12.3
Florida	42,776	387.1	27,468	248.6	8,766	79.3	4,858	44.0	2,739	24.8	1,820	16.5
East South Central	49,218	327.4	28,976	192.7	11,852	78.8	7,285	48.5	3,653	24.3	1,901	12.6
Kentucky	12,581	338.2	7,392	198.7	2,715	73.0	1,648	44.3	755	20.3	500	13.4
Tennessee	15,457	327.1	9,114	192.8	3,894	82.4	2,207	46.7	1,160	24.5	661	14.0
Alabama	12,693	318.2	7,840	196.5	3,223	80.8	1,995	50.0	1,035	25.9	466	11.7
Mississippi	8,487	326.7	4,630	178.2	2,020	77.8	1,435	55.2	703	27.1	274	10.7

See note at end of table.

Table 17. 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: 1984—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 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. . .	72,677	277.4	42,658	162.8	16,263	62.1	12,048	46.0	6,427	24.5	3,414	13.0
Arkansas	8,714	371.4	4,879	208.0	2,207	94.1	1,162	49.5	572	24.4	308	13.1
Louisiana	13,087	293.4	7,822	175.3	2,618	58.7	2,036	45.6	963	21.6	590	13.2
Oklahoma	10,886	328.9	6,216	187.8	2,412	72.9	1,650	49.8	887	26.8	448	13.5
Texas	39,990	248.6	23,741	147.6	9,026	56.1	7,200	44.8	4,005	24.9	2,068	12.9
Mountain	28,442	226.4	18,107	144.1	5,725	45.6	5,863	46.7	3,124	24.9	2,152	17.1
Montana	2,280	277.0	1,457	177.0	488	59.3	442	53.7	232	28.2	135	16.4
Idaho	2,543	254.6	1,497	149.8	569	57.0	467	46.7	236	23.6	154	15.4
Wyoming	1,011	197.1	614	119.7	199	38.8	281	54.8	148	28.8	100	19.5
Colorado	6,645	208.3	4,158	130.3	1,272	39.9	1,271	39.8	645	20.2	522	16.4
New Mexico	2,748	192.7	1,945	136.4	589	41.3	837	58.7	468	32.8	254	17.8
Arizona	7,824	254.7	5,250	170.9	1,554	50.6	1,527	49.7	875	28.5	515	16.8
Utah	3,134	193.1	1,553	95.7	675	41.6	648	39.9	309	19.0	224	13.8
Nevada	2,257	246.1	1,633	178.1	379	41.3	390	42.5	211	23.0	248	27.0
Pacific	89,987	261.9	59,644	173.6	20,447	59.5	13,924	40.5	7,024	20.4	4,859	14.1
Washington	12,015	276.3	7,666	176.3	2,767	63.6	1,706	39.2	835	19.2	568	13.1
Oregon	8,106	302.9	5,374	200.8	1,895	70.8	1,232	46.0	612	22.9	419	15.7
California	67,701	262.5	44,852	173.9	15,273	59.2	10,342	40.1	5,324	20.6	3,696	14.3
Alaska	384	76.0	390	77.2	85	16.8	391	77.4	117	23.2	60	11.9
Hawaii	1,781	171.7	1,362	131.3	427	41.2	253	24.4	136	13.1	116	11.2

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

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 1984, 46 States participated in this program. For these States part or all of the mortality data for 1984 were provided on computer tape to NCHS. The following 19 States in the VSCP submitted precoded medical and demographic data for all deaths on computer tape: Colorado, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Nebraska, New Hampshire, New York, North Carolina, Pennsylvania, South Carolina, Vermont, Virginia, and Wisconsin. The remaining 27 VSCP States submitted precoded demographic data for all deaths along with copies of the original certificates from which NCHS coded the medical data: Alabama, Alaska, Arkansas, Connecticut, Florida, Hawaii, Idaho, Illinois, Indiana, Kentucky, Missouri, Montana, Nevada, New Jersey, New Mexico, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Dakota, Tennessee, Texas, Utah, Washington, West Virginia, and Wyoming. For the four States and the District of Columbia that were not participants in the VSCP in 1984, NCHS coded both the demographic and medical data.

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 (WHO) regulations, which specify that member nations classify causes of death by the current *Manual of the International Statistical Classification of Disease, Injuries, and Causes of Death*.⁴

Causes of death for 1979–84 were classified according to the *Ninth Revision International Classification of Diseases*.⁴ 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 the 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.^{5–7}

Besides specifying the classification, the 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 issues of Part 2a of the *NCHS Instruction Manual*.⁸

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. The underlying cause 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 1984 acquired immune deficiency syndrome (AIDS) and human T-cell lymphotropic virus-III/lymphadenopathy-associated virus (HTLV-III/LAV) 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 1984 on 1,395 death certificates. On an additional 1,548 death certificates, conditions classifiable to category ICD No. 279.1 were reported, but ICD rules gave preference to other categories (for example, malignant neoplasms) in selecting the underlying cause of death.

The WHO selection rules for underlying cause of death were developed before 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 HTLV-III/LAV infections were involved in most of the 2,943 deaths for which 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 HTLV-III/LAV infection as reported on the death certificate are being revised and will be implemented with deaths occurring in 1985. It may be noted that for 1984 the Centers for Disease Control received reports of 2,829 deaths due to AIDS in the United

NOTE: A list of references follows the text.

States; this figure may underestimate true mortality by 10–30 percent.⁹

Population bases for computing rates

The population used for computing rates shown in this report (furnished by the U.S. Bureau of the Census) represents the population residing in the specified area. Death rates for 1984 are based on populations estimated as of July 1, 1984.^{10,11} The estimates are based on the 1980 census count. The 1980 census counts by race were modified to be consistent with U.S. Office of Management and Budget categories and historical categories for death data. The modification procedures are discussed in detail in a report of the U.S. Bureau of the Census.¹²

Population estimates used to compute death rates for 1984 incorporate new estimates for net migration and net undocumented immigration. A comparison based on the new migration assumptions versus the previous assumptions was made for the 1984 population estimates of 5- and 10-year age-race-sex groups. The difference was less than 2 percent in all groups except the age groups 40–44 years and 85 years and over for the black population. The 1984 population estimates for the black population based on the new assumptions are about 4 percent smaller for ages 40–44 years and about 3 percent smaller for ages 85 years and over. Death rates for 1984, therefore, are not strictly comparable with those for previous years, although trends for the total population and most age-race-sex groups are not substantially affected. Additional information has been published by the U.S. Bureau of the Census.¹⁰

The U.S. Bureau of the Census has conducted extensive research to evaluate the coverage of the U.S. population (including undercount and overcount and misstatement of age, race, and sex) in the last four decennial censuses—1950, 1960, 1970, and 1980.^{13–15} These evaluative studies indicate that there is differential coverage in the censuses among the population groups; that is, some age, race, and sex groups are more completely enumerated than others. To the extent that the estimates of net census undercounts and overcounts are valid, that the net undercounts and overcounts are substantial, and that they vary among subgroups of the population, net census undercounts and overcounts can have consequences for vital statistics measures.¹⁴

Infant mortality rates shown in figure 5 and tables E, 13, 14, and 16 are the most commonly used index for measuring the risk of dying during the first year of life. These rates are calculated by dividing the number of infant deaths in a calendar year by the number of registered live births for the same period; they are presented as rates per 1,000 or 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,

the 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. Because of differences in the denominators, infant death rates may differ from infant mortality rates.

Cause-of-death rankings

The cause-of-death rankings shown in tables B–D and tables 5–7 are based on the List of 72 Selected Causes of Death; the cause-of-death ranking for infants in table 13 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 (in this case, Tuberculosis of respiratory system and Other tuberculosis) are not ranked.

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 rate 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 a 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 that

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

covers the “true” number of events.

NOTE: A list of references follows the text.

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

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

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

This report presents summary tabulations from the final mortality statistics for 1984. More detailed tabulations for 1984 will be published in *Vital Statistics of the United States, 1984, 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.

Suggested citation

National Center for Health Statistics; Advance report of final mortality statistics, 1984. *Monthly Vital Statistics Report*. Vol. 35, No. 6 Supp. (2). DHHS Pub. No. (PHS) 86-1120. Public Health Service, Hyattsville, Md., September 26, 1986.

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Additional information on random variation in numbers of deaths, death rates, infant and maternal mortality rates, and ratios may be found in the Technical appendix of *Vital Statistics of the United States, Volume II, Mortality, Part A*, 1981.

Life tables

U.S. abridged life tables are constructed by reference to a standard life table.¹⁶

NOTE: A list of references follows the text.