

## Advance Report of Final Mortality Statistics, 1980

### Highlights

In 1980 a total of 1,989,841 resident deaths occurred in the United States, 76,000 more than in the previous year. Contributing to the magnitude of the increase between the two years were outbreaks of influenza in 1980<sup>1</sup> as well as a low level of mortality in 1979. In that year—free of influenza outbreaks—death rates reached a record low, and life expectancy reached a new peak for the United States. From 1979 to 1980 life expectancy declined from 73.9 to 73.7 years, interrupting the long-term trend of increasing life expectancy. Also reflecting the outbreaks of influenza in 1980 and the low mortality in 1979 were higher death rates in 1980 for a number of the leading causes of death, most strikingly for Pneumonia and influenza and for Chronic obstructive pulmonary diseases and allied conditions. Rates were also higher for the three leading causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (cancer); and Cerebrovascular diseases (stroke)—which accounted for about two out of three deaths in the United States. Death rates for Homicide and legal intervention reached a new peak in 1980; and rates for Septicemia continued the rapid increase that has been observed in recent years.

Males experienced higher mortality than females for each of the 15 leading causes of death in 1980. The greatest sex difference in mortality was for Homicide and legal intervention; the least, for Diabetes mellitus. The black population had higher death rates than the white population for most leading causes. Exceptions were for two leading causes—Chronic obstructive pulmonary diseases and allied conditions and Suicide—for which mortality of the black population was lower than that of the white population. The greatest race difference in mortality was for Homicide and legal intervention.

Infant mortality was at a record low in 1980, but rates for the black population continued to be about twice those for the white population.

### Deaths and death rates

Death rates for 1980 are based on the 1980 census enumeration. The populations by race have been modified from those actually enumerated to ensure consistency with procedures used in earlier censuses. The modification procedure is discussed in detail in the Technical notes. In addition, all death rates for 1971–79 have been revised for this report because of the unusually large difference between the 1980 census enumeration and the previously estimated population for that year. The 1980 census enumerated about 5.5 million more persons than were previously estimated for April 1, 1980. This “error of closure” differed in magnitude by age and race.

In 1980 there were 1,989,841 resident deaths recorded in the United States, 76,000 more than in 1979. The death rate increased in 1980 to 878.3 deaths per 100,000 population compared with 852.2 reported in 1979. Provisional data indicate that the death rate resumed its decline in 1981 and 1982; however, in both years, rates were still above the all-time low rate reported for 1979.

The age-adjusted death rate increased from 577.0 in 1979 to 585.8 in 1980 (figure 1). Age-adjusted death rates show

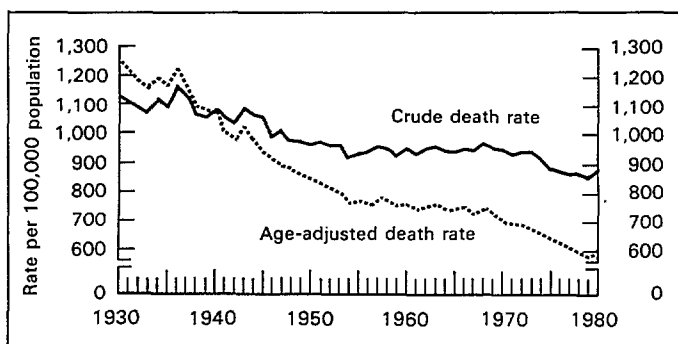


Figure 1. Crude and age-adjusted death rates: United States, 1930–80

what the level of mortality would be if there were no changes in the age composition of the population from year to year. Therefore, they are better indicators than unadjusted death rates in showing changes in the risk of death over a period of time when the distribution of the population by age is changing. They are also better indicators of such risk when comparisons of mortality are being made for subgroups of the population, such as by sex or race, with different age composition.

**Death rates by age, race, and sex**

Death rates for every age group of both sexes have generally declined since 1950 except for males aged 15–24 years (figure 2). However, this pattern was not sustained between 1979 and 1980. Death rates increased for males aged 1–4, 15–24, 25–34, and 65–74 years and over, and for females 25–34 and 55–64 years and over (table A).

Between 1979 and 1980 the age-adjusted death rate in-

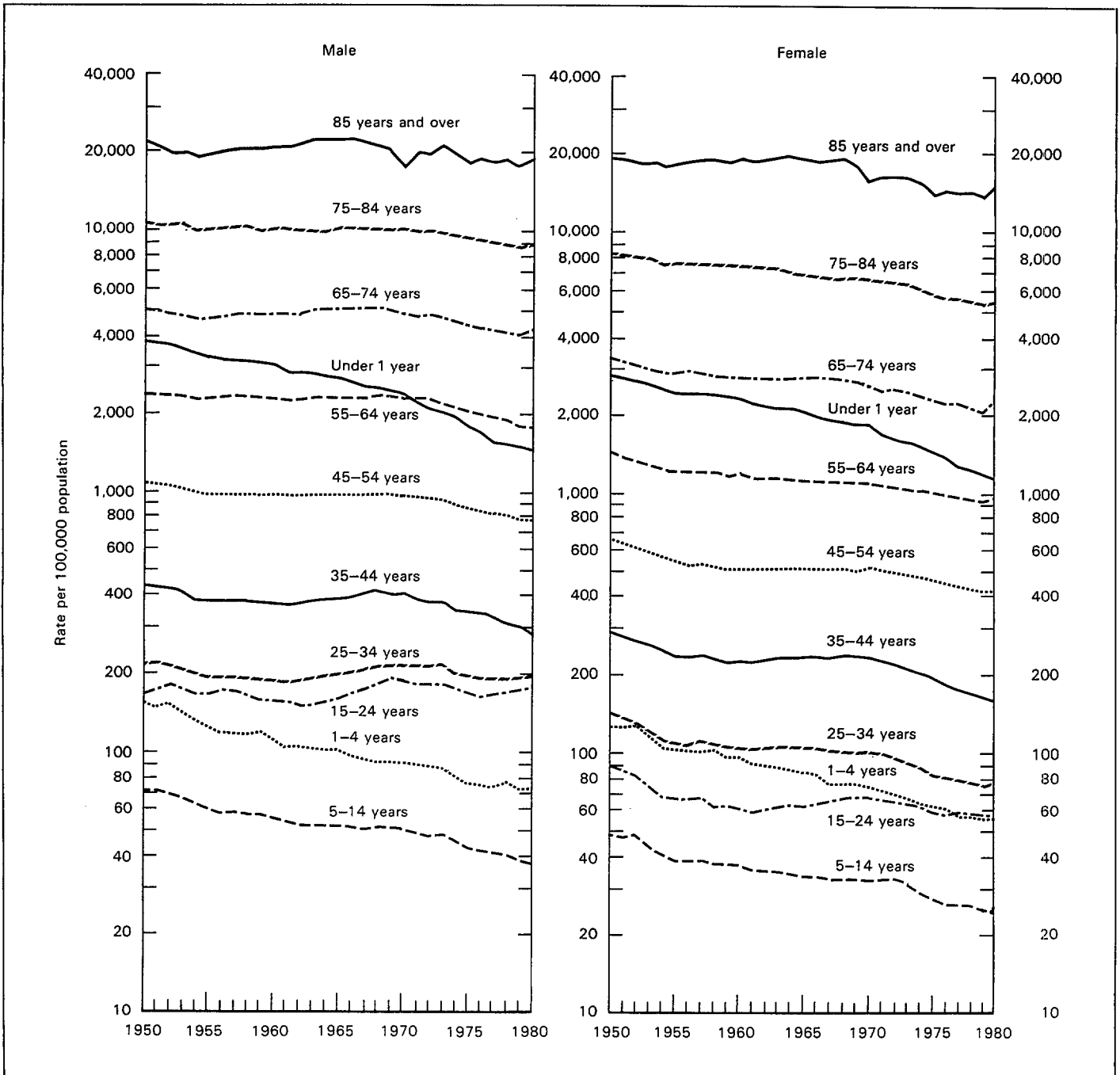


Figure 2. Death rates by age and sex: United States, 1950–80

**Table A. Percent change in death rates between 1979 and 1980 by age and sex: United States**

Age	Total	Male	Female
Percent change			
All ages	+3.1	+2.0	+4.3
Under 1 year	-3.3	-3.6	-3.0
1-4 years	-0.5	+2.3	-4.0
5-14 years	-2.9	-4.4	-0.4
15-24 years	+0.5	+0.8	-0.2
25-34 years	+1.9	+2.0	+1.5
35-44 years	-0.8	-0.6	-1.3
45-54 years	-1.0	-1.5	-0.1
55-64 years	+0.6	-0.0	+1.8
65-74 years	+2.2	+1.4	+3.5
75-84 years	+3.0	+2.9	+3.2
85 years and over	+6.8	+6.8	+7.0

NOTE: Based on revised 1979 rates; see Technical notes.

creased 1.4 percent for the white population and 3.7 percent for the black population. In 1980 the age-adjusted death rate for the black population was 1.5 times that for the white population, the same as the ratio in 1979. Between 1979 and 1980 the age-adjusted death rate for males increased 1.1 percent, while that for females increased 2.2 percent. In 1980, as in 1979, the age-adjusted death rate for males was 1.8 times that for females.

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

The average expectation of life at birth was 73.7 years in 1980, down 0.2 years from 1979 (figure 3). The trend in life expectancy in the United States has been generally upward with few interruptions. The decrease between 1979 and 1980 was the first decrease in annual life expectancy since the decrease of 0.3 years between 1967 and 1968. Both declines reflect higher death rates associated with the influenza epidemics in 1968 and 1980.

The expectation of life at birth for 1980 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 1980. Between 1979 and 1980 the white

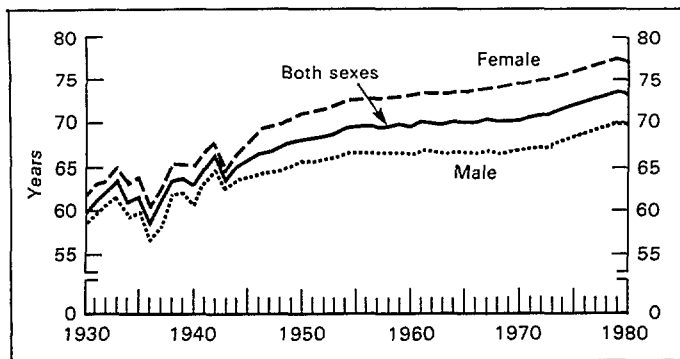


Figure 3. Life expectancy by sex: United States, 1930-80

population showed a decrease of 0.2 years in life expectancy to 74.4 years, and the black population showed a decrease of 0.5 years to 68.0 years. In 1970 life expectancy for the white population was 71.7 years, while that for the black population was 64.1 years. The difference in life expectancy between the white and black populations narrowed from 7.6 years in 1970 to 6.4 years in 1980.

Females showed a decrease of 0.3 years in life expectancy to 77.5 years between 1979 and 1980, the first decline since 1968; while males showed no change (70.0 years). Life expectancy for females was 7.5 years greater than that for males in 1980. This difference was 7.6 years in 1970 and 6.5 years in 1960.

Among the race-sex groups, white females continued to have the highest life expectancy (78.1 years), followed by black females (72.3 years), white males (70.7), and black males (63.7 years). The largest gain in life expectancy between 1970 and 1980 was for black females (4.0 years), followed by black males (3.7 years), white males (2.7 years), and white females (2.5 years).

A person who has attained the age of 65 years may look forward to living to an older age, on the average, than one who has attained the age of 50 years. In 1950 a person aged 50 years could expect to live to age 74.5 years, and a person aged 65 years could expect to live to age 78.9 years. Since 1950 there has been an increase of 3.3 years in the average number of years of life remaining at age 50 years and an increase of 2.5 years at age 65 years.

**Leading causes of death**

Deaths assigned to the 15 leading causes of death accounted for 89.1 percent of the total number of deaths in 1980 (table B). (For ranking procedures, see Technical notes.) The list of the leading causes for 1980 remained unchanged from the list based on data for 1979, except that the ranks for two of the leading causes exchanged places. Homicide and legal intervention, the 12th leading cause in 1979, moved to 11th; while Certain conditions originating in the perinatal period, the 11th leading cause in 1979, became the 12th. Age-adjusted death rates are shown in figure 4 for 13 of the 15 leading causes. Since 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.

For 9 of the 13 leading causes of death the age-adjusted death rate increased between the two years. These causes were Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Chronic obstructive pulmonary diseases and allied conditions; Pneumonia and influenza; Diabetes mellitus; Chronic liver disease and cirrhosis; Homicide and legal intervention; Nephritis, nephrotic syndrome, and nephrosis; and Septicemia. A decrease in the age-adjusted death rate occurred between 1979 and 1980 for Cerebrovascular diseases, Accidents and adverse effects, and Suicide.

**Table B. Death rates and percent of total deaths for the 15 leading causes of death: United States, 1980**

[Rates per 100,000 population]

Rank <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Rate	Percent of total deaths
...	All causes .....	878.3	100.0
1	Diseases of heart .....	336.0	38.2
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues .....	183.9	20.9
3	Cerebrovascular diseases .....	75.1	8.6
4	Accidents and adverse effects .....	46.7	5.3
...	Motor vehicle accidents .....	23.5	...
...	All other accidents and adverse effects .....	23.2	...
5	Chronic obstructive pulmonary diseases and allied conditions .....	24.7	2.8
6	Pneumonia and influenza .....	24.1	2.7
7	Diabetes mellitus .....	15.4	1.8
8	Chronic liver disease and cirrhosis .....	13.5	1.5
9	Atherosclerosis .....	13.0	1.5
10	Suicide .....	11.9	1.4
11	Homicide and legal intervention .....	10.7	1.2
12	Certain conditions originating in the perinatal period .....	10.1	1.1
13	Nephritis, nephrotic syndrome, and nephrosis .....	7.4	0.8
14	Congenital anomalies .....	6.2	0.7
15	Septicemia .....	4.2	0.5
...	All other causes .....	95.6	10.9

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

Mortality levels for each of the 15 leading causes of death were higher for males than for females. Between the major race groups, mortality was higher for the black population than for the white population for 13 of the 15 leading causes.

**Diseases of heart**—In 1980 this leading cause of death in the United States accounted for 761,085 deaths (almost 4 out of every 10 deaths), resulting in an age-adjusted death rate of 202.0 deaths per 100,000 population. Although the age-adjusted death rate increased 1.3 percent between 1979 and 1980, the trend for this cause has been generally downward since 1950. For 1980 the age-adjusted death rate for males was about twice the rate for females, and that for the black population was about 1.3 times that for the white population, as shown in table C.

**Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues**—In 1980 there were 416,509 deaths from Malignant neoplasms, which accounted for approximately 2 out of 10 deaths. The age-adjusted death rate for this cause increased 1.5 percent between 1979 and 1980 (from 130.8 deaths per 100,000 population to 132.8). The historic trend for this cause has been generally upward since 1950. For 1980 the age-adjusted rate for males was 1.5 times the rate for females, and that for the black population was about 1.3 times that for the white population.

**Cerebrovascular diseases**—Cerebrovascular diseases accounted for 170,225 deaths (almost 1 out of every 10 deaths)

in 1980, resulting in an age-adjusted death rate of 40.8 deaths per 100,000 population and a decrease of about 2 percent between 1979 and 1980. This continued the general downward trend observed since 1950. The age-adjusted death rate for males was about 1.2 times the rate for females, and that for the black population was about 1.8 times that for the white population.

**Accidents and adverse effects**—Accidents and adverse effects accounted for 105,718 deaths. The age-adjusted death rate was 42.3 deaths per 100,000 population, a decrease of 1.4 percent between 1979 and 1980. The age-adjusted rate for males was 2.9 times the rate for females, and that for the black population was 1.2 times that for the white population.

For Motor vehicle accidents there were 53,172 deaths in 1980 compared with 53,524 in 1979. The age-adjusted death rate decreased 1.3 percent between 1979 and 1980, from 23.2 to 22.9 deaths per 100,000 population; this was the first decrease since 1975. The age-adjusted death rate for males was 2.9 times that for females, and that for the black population was 0.8 times that for the white population.

For All other accidents and adverse effects the number of deaths in 1980 was 52,546, slightly fewer than the number from Motor vehicle accidents. In 1980 the age-adjusted death rate for this cause was 19.5 per 100,000 population, a decrease of 0.5 percent from the previous year. In contrast to the trend for Motor vehicle accident mortality, which has been upward in recent years, the trend in the age-adjusted death rate for All other accidents and adverse effects has been generally downward since 1950. For males the age-adjusted death rate was about three times that for females. For the black population the rate was 1.8 times that for the white population.

**Chronic obstructive pulmonary diseases and allied conditions**—This cause accounted for 56,050 deaths. A large increase occurred in the age-adjusted death rate for these chronic respiratory diseases between 1979 and 1980, from 14.6 to 15.9 deaths per 100,000 population (table D). While the trend in mortality for these causes has been upward since 1950, the increase between 1979 and 1980 was very large (8.9 percent), reflecting the impact of the influenza outbreaks in 1980.

The age-adjusted death rate in 1980 for males was 2.9 times the rate for females, and that for the white population was 1.3 times that for the black population.

**Pneumonia and influenza**—The influenza outbreaks in 1980 were clearly represented in the elevated mortality for Pneumonia and influenza. A total of 54,619 deaths occurred from Pneumonia and influenza, the sixth leading cause of death, compared with 45,030 deaths in the previous year. The age-adjusted death rate increased 15.2 percent, from 11.2 deaths per 100,000 population in 1979 to 12.9 in 1980. In 1980, two outbreaks of influenza occurred, the first during February and March and the second beginning in December. Since 1968 there have been only 4 years that were free of influenza outbreaks—1971, 1974, 1977, and 1979.

The age-adjusted death rate for Pneumonia and influenza in 1980 for males was 1.8 times the rate for females, and that

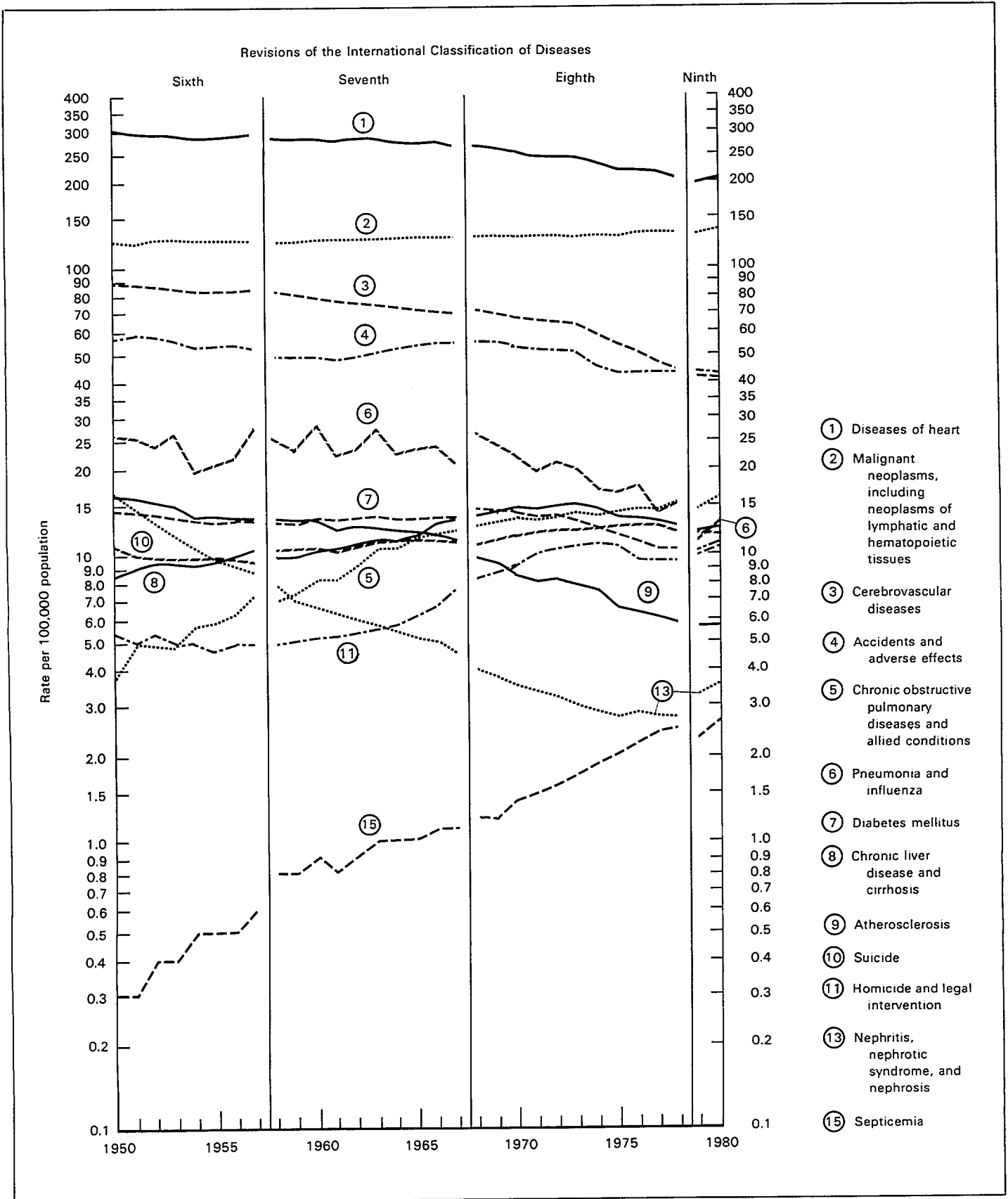


Figure 4. Age-adjusted death rates for 13 of the 15 leading causes of death: United States, 1950-80

Table C. Ratio of age-adjusted death rates for the 15 leading causes of death, by sex and race: United States, 1980

Rank <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Ratio of—	
		Male to female	Black to white
...	All causes . . . . .	1.79	1.50
1	Diseases of heart . . . . .	1.99	1.29
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	1.51	1.32
3	Cerebrovascular diseases . . . . .	1.19	1.80
4	Accidents and adverse effects . . . . .	2.93	1.23
...	Motor vehicle accidents . . . . .	2.90	0.84
...	All other accidents and adverse effects . . . . .	2.96	1.75
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	2.93	0.76
6	Pneumonia and influenza . . . . .	1.77	1.57
7	Diabetes mellitus . . . . .	1.02	2.23
8	Chronic liver disease and cirrhosis . . . . .	2.16	1.96
9	Atherosclerosis . . . . .	1.32	1.14
10	Suicide . . . . .	3.33	0.52
11	Homicide and legal intervention . . . . .	3.86	5.88
12	Certain conditions originating in the perinatal period <sup>2</sup> . . . . .	1.27	2.43
13	Nephritis, nephrotic syndrome, and nephrosis . . . . .	1.58	3.21
14	Congenital anomalies <sup>2</sup> . . . . .	1.16	1.13
15	Septicemia . . . . .	1.45	2.82

<sup>1</sup>Rank based on number of deaths; see Technical notes.  
<sup>2</sup>Inasmuch as deaths from these causes occur mainly among infants, ratios are based on 1980 infant mortality rates instead of rates adjusted to the total population of the United States in 1940.

for the black population was 1.6 times that for the white population.

**Diabetes mellitus**—In 1980, 34,851 persons died from Diabetes mellitus. The age-adjusted death rate increased 3.1 percent between 1979 and 1980, from 9.8 to 10.1 deaths per 100,000 population. For males the rate was 2 percent above that for females, the smallest sex difference among the leading causes of death. For the black population the rate was 2.2 times that for the white population. Among the race-sex groups, black females had the highest age-adjusted death rate for this cause. Their rate was 22.1 deaths per 100,000 population compared with 17.7 for black males, 9.5 for white males, and 8.7 for white females.

**Chronic liver disease and cirrhosis**—For this disease, to which 30,583 deaths were attributed in 1980, the age-adjusted death rate increased 1.7 percent between 1979 and 1980, from 12.0 to 12.2 deaths per 100,000 population. On an age-adjusted basis, the death rate for males was over twice that for females, and that for the black population was twice that for the white population.

**Atherosclerosis**—Atherosclerosis resulted in 29,449 deaths in 1980. The age-adjusted death rate was 5.7 deaths per 100,000 population, the same as for the previous year. In terms of age-adjusted death rates, males in 1980 were 1.3 times as

likely to die from this cause as females, and the black population was 1.1 times as likely to die from Atherosclerosis as the white population.

**Suicide**—A total of 26,869 persons took their own lives in 1980. The age-adjusted death rate was 2.6 percent lower for 1980 (11.4 deaths per 100,000 population) than for 1979 (11.7). In 1980 males were 3.3 times as likely to die from Suicide as females in terms of age-adjusted death rates. The ratio of the age-adjusted death rate for the black population to that for the white population was 0.5—the lowest ratio among the leading causes of death.

**Homicide and legal intervention**—Homicide and legal intervention accounted for a total of 24,278 deaths. In 1980 the age-adjusted death rate was 10.8 deaths per 100,000 population, the highest ever recorded in the United States, and 5.9 percent higher than the rate of 10.2 for 1979. For males the rate was 3.9 times that for females, and that for the black population was 5.9 times that for the white population. These were the largest sex and race differentials among the leading causes of death in 1980.

**Certain conditions originating in the perinatal period**—A total of 22,866 deaths were reported from this cause. Since nearly all of the deaths (99.5 percent in 1980) occurred among infants under 1 year of age, mortality change for this cause was measured by the infant mortality rate per 100,000 live births. The trend of the infant mortality rate for this cause has been downward, with little interruption since 1950, paralleling the pattern observed for the total infant mortality rate. Components of this cause are discussed in the section on Infant mortality.

**Nephritis, nephrotic syndrome, and nephrosis**—In 1980, 16,753 persons died from this cause. The age-adjusted death rate increased 4.7 percent between 1979 and 1980, from 4.3 to 4.5 deaths per 100,000 population. In 1980 the age-adjusted rate for males was 1.6 times the rate for females, and that for the black population was 3.2 times that for the white population.

**Congenital anomalies**—In 1980 Congenital anomalies was the 14th leading cause of death and accounted for 13,938 deaths, of which two-thirds were infants. Because such a large proportion of these deaths occur under 1 year of age, mortality from this cause is more appropriately measured by the infant mortality rate. Among infants, it was the leading cause of death. This cause is discussed in greater detail in the section on Infant mortality.

**Septicemia**—A total of 9,438 deaths were attributed to Septicemia in 1980. The age-adjusted death rate for 1980 (2.6 deaths per 100,000 population) was 13 percent higher than the rate for 1979 (2.3). This increase continued the trend observed for this cause since 1950. In terms of age-adjusted rates, in 1980 males were 1.5 times as likely to die from Septicemia as females, and the black population was almost three times as likely as the white population to die from this cause.

Table D. Deaths and age-adjusted death rates for Chronic obstructive pulmonary diseases and allied conditions of the *Ninth Revision International Classification of Diseases* and a comparable combination of causes of the Eighth Revision: United States, 1969–80

Year	Eighth Revision			Ninth Revision
	<i>Bronchitis, emphysema, and asthma (490–493)</i>	<i>Chronic obstructive lung disease without mention of asthma, bronchitis, or emphysema (*519.3)</i>	<i>Combination of 490–493 and *519.3</i>	<i>Chronic obstructive pulmonary diseases and allied conditions (490–496)</i>
Age-adjusted rate per 100,000 population				
1980.....	...	...	...	15.9
1979.....	...	...	...	14.6
1978.....	6.8	8.4	15.1	...
1977.....	7.2	7.2	14.3	...
1976.....	7.9	6.7	14.5	...
1975.....	8.6	5.7	14.1	...
1974.....	9.2	4.7	13.9	...
1973.....	10.4	3.9	14.2	...
1972.....	11.0	2.8	13.8	...
1971.....	11.1	2.3	13.3	...
1970.....	11.6	1.7	13.2	...
1969.....	11.9	1.0	12.9	...
Number				
1980.....	...	...	...	56,050
1979.....	...	...	...	49,933
1978.....	21,875	28,613	50,488	...
1977.....	22,363	23,962	46,325	...
1976.....	24,410	21,472	45,882	...
1975.....	25,468	17,593	43,061	...
1974.....	26,880	14,299	41,179	...
1973.....	29,708	11,334	41,042	...
1972.....	30,768	8,210	38,978	...
1971.....	30,284	6,321	36,605	...
1970.....	30,889	4,444	35,333	...
1969.....	31,144	2,704	33,848	...

NOTE: Rates for 1971–79 have been revised; see Technical notes.

### Infant mortality

In 1980 there were 45,526 infant deaths in the United States, that is, deaths of infants under 1 year of age. The infant mortality rate of 12.6 infant deaths per 1,000 live births was the lowest rate ever recorded for the United States. The rate declined 3.8 percent from the level of 13.1 in 1979. Among white infants, the mortality rate (per 1,000 live births) decreased 3.5 percent, from 11.4 in 1979 to 11.0 in 1980, while for black infants the rate decreased 1.8 percent, from 21.8 in 1979 to 21.4 in 1980. The infant mortality rate for black infants was almost twice that for white infants in 1980, as it was 20 years earlier (figure 5).

The three leading causes of infant mortality—Congenital anomalies, Sudden infant death syndrome, and Respiratory distress syndrome—accounted for 19,719 infant deaths, or 43.3 percent of all infant deaths in 1980. Their rates were, respectively, 255.2, 152.5, and 138.1 deaths per 100,000 live births. The fourth leading cause of infant mortality was Disorders relating to short gestation and unspecified low birthweight (101.0 infant deaths per 100,000 live births), followed by Newborn affected by maternal complications of pregnancy (43.5); Intrauterine hypoxia and birth asphyxia (41.4); Acci-

dents and adverse effects (32.3), of which one-fifth were due to Motor vehicle accidents; Birth trauma (29.3); Pneumonia and influenza (28.0); and Infections specific to the perinatal period (26.9).

The ratio of infant mortality rates between black infants and white infants varied by cause. Among the 10 leading causes of infant death, the largest race ratio (which expresses the ratio of an infant mortality rate for black infants to that for white infants) was 3.2 for Pneumonia and influenza and Disorders relating to short gestation and unspecified low birthweight, followed by Newborn affected by maternal complications of pregnancy and Sudden infant death syndrome (2.2 each), Infections specific to the perinatal period (2.0), Intrauterine hypoxia and birth asphyxia, Accidents and adverse effects (1.9 each), Birth trauma (1.8), Respiratory distress syndrome (1.7), and Congenital anomalies (1.0).

### Maternal mortality

In 1980, 334 women died of maternal causes (table E). As in previous years, this number does not include all deaths occurring to pregnant women, but only deaths assigned to

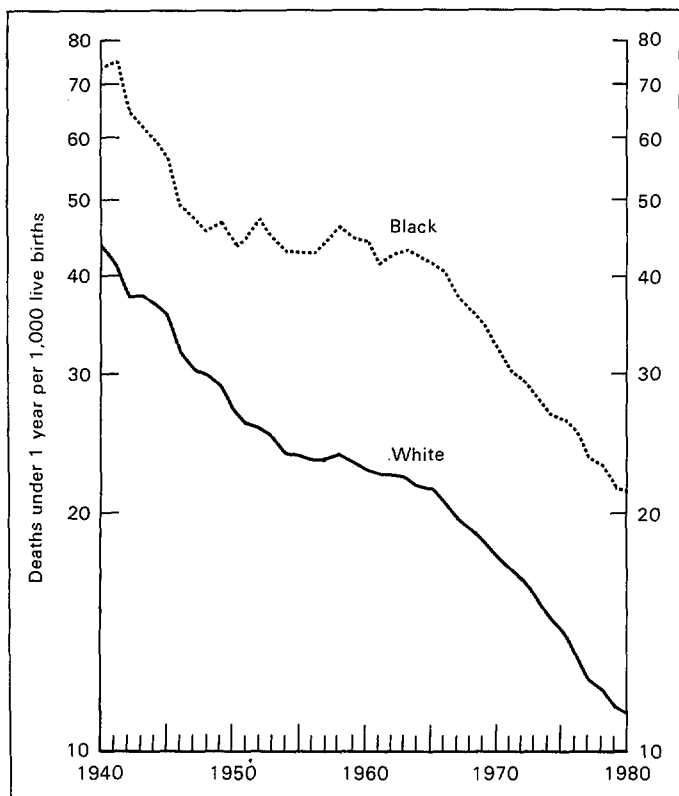


Figure 5. Infant mortality rates by race: United States, 1940-80

Table E. Maternal deaths and maternal mortality rates by race: United States, 1980

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

Race	Number	Rate
All races	334	9.2
White	193	6.7
All other	141	19.8
Black	127	21.5

Complications of pregnancy, childbirth, and the puerperium (ICD-9 Nos. 630-676). The maternal mortality rate was 4.2 percent lower in 1980 (9.2 deaths per 100,000 live births) than in 1979 (9.6). Black women were three times as likely as white women to die of causes associated with pregnancy, childbirth, and the puerperium.



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**Table 1. Deaths and death rates by age, race, and sex: United States, 1980**

Age	All races			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Number											
All ages.....	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
Under 1 year.....	45,526	25,804	19,722	31,880	18,290	13,590	13,646	7,514	6,132	12,603	6,958	5,645
1-4 years.....	8,187	4,761	3,426	6,099	3,573	2,526	2,088	1,188	900	1,871	1,069	802
5-9 years.....	5,075	2,989	2,086	3,898	2,285	1,613	1,177	704	473	1,044	627	417
10-14 years.....	5,614	3,571	2,043	4,503	2,891	1,612	1,111	680	431	983	613	370
15-19 years.....	20,733	15,207	5,526	17,530	12,866	4,664	3,203	2,341	862	2,772	2,015	757
20-24 years.....	28,294	21,696	6,598	22,530	17,391	5,139	5,764	4,305	1,459	5,169	3,854	1,315
25-29 years.....	25,732	19,037	6,695	19,469	14,618	4,851	6,263	4,419	1,844	5,668	4,020	1,648
30-34 years.....	24,508	17,003	7,505	18,229	12,685	5,544	6,279	4,318	1,961	5,745	3,993	1,752
35-39 years.....	25,656	16,822	8,834	19,166	12,559	6,607	6,490	4,263	2,227	5,921	3,906	2,015
40-44 years.....	32,762	20,790	11,972	24,698	15,785	8,913	8,064	5,005	3,059	7,419	4,615	2,804
45-49 years.....	49,787	31,469	18,318	38,886	24,816	14,070	10,901	6,653	4,248	10,171	6,219	3,952
50-54 years.....	83,370	53,003	30,367	67,748	43,490	24,258	15,622	9,513	6,109	14,645	8,937	5,708
55-59 years.....	126,016	80,075	45,941	105,852	67,809	38,043	20,164	12,266	7,898	18,970	11,498	7,472
60-64 years.....	166,165	104,187	61,978	142,793	90,363	52,430	23,372	13,824	9,548	22,100	13,036	9,064
65-69 years.....	216,277	132,459	83,818	188,394	116,502	71,892	27,883	15,957	11,926	26,232	14,904	11,328
70-74 years.....	250,344	144,912	105,432	221,932	129,502	92,430	28,412	15,410	13,002	26,591	14,191	12,400
75-79 years.....	263,611	138,208	125,403	236,997	124,611	112,386	26,614	13,597	13,017	24,698	12,377	12,321
80-84 years.....	253,646	114,557	139,089	233,370	105,008	128,362	20,276	9,549	10,727	18,719	8,669	10,050
85 years and over.....	357,970	128,134	229,836	334,240	118,549	215,691	23,730	9,585	14,145	21,649	8,534	13,115
Not stated.....	568	394	174	393	285	108	175	109	66	165	103	62
	Rates per 100,000 population											
All ages <sup>1</sup> .....	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
Under 1 year.....	1,288.3	1,428.5	1,141.7	1,099.9	1,230.3	962.5	2,148.5	2,350.2	1,944.1	2,356.6	2,586.7	2,123.7
1-4 years.....	63.9	72.6	54.7	57.9	66.1	49.3	91.4	103.0	79.5	97.6	110.5	84.4
5-9 years.....	30.4	35.0	25.6	28.4	32.5	24.1	39.6	46.9	32.1	41.7	49.7	33.6
10-14 years.....	30.8	38.3	22.9	29.8	37.4	21.9	35.4	43.0	27.7	36.6	45.4	27.7
15-19 years.....	97.9	141.4	53.1	99.1	142.7	53.7	92.1	134.4	49.7	92.3	134.5	50.3
20-24 years.....	132.7	203.5	61.9	124.6	190.9	57.3	178.2	277.1	86.8	188.5	294.5	91.8
25-29 years.....	131.8	196.2	68.2	116.8	174.7	58.4	219.7	330.9	121.7	242.7	368.4	132.5
30-34 years.....	139.6	196.0	84.5	120.2	167.6	73.0	262.2	390.1	152.2	302.5	455.9	171.2
35-39 years.....	183.7	245.2	124.4	158.0	208.7	108.1	353.2	504.8	224.2	404.0	586.7	252.0
40-44 years.....	280.8	364.2	200.8	244.2	316.1	174.1	518.4	699.8	364.0	589.9	810.4	407.5
45-49 years.....	448.9	584.0	321.3	401.0	521.7	284.8	782.4	1,053.7	557.6	885.8	1,201.4	626.7
50-54 years.....	712.0	943.0	498.7	653.8	866.8	453.8	1,159.4	1,576.3	821.2	1,292.2	1,764.7	910.5
55-59 years.....	1,084.9	1,460.7	749.0	1,018.2	1,375.6	695.9	1,653.9	2,220.0	1,184.7	1,823.8	2,457.2	1,305.8
60-64 years.....	1,647.2	2,231.0	1,144.0	1,572.6	2,140.6	1,079.2	2,319.1	3,082.2	1,707.1	2,531.1	3,377.1	1,860.7
65-69 years.....	2,462.6	3,393.8	1,717.7	2,386.8	3,312.1	1,642.9	3,135.7	4,139.2	2,367.6	3,368.9	4,484.0	2,538.4
70-74 years.....	3,682.5	5,078.3	2,672.8	3,606.4	5,022.8	2,585.1	4,409.7	5,598.6	3,522.9	4,710.8	6,047.7	3,759.6
75-79 years.....	5,499.1	7,480.2	4,256.6	5,446.2	7,468.5	4,188.7	6,019.1	7,589.1	4,949.6	6,366.9	8,092.2	5,243.8
80-84 years.....	8,642.0	11,239.6	7,260.1	8,624.7	11,267.0	7,236.4	8,846.3	10,946.4	7,555.9	9,350.9	11,554.2	8,030.1
85 years and over.....	15,980.3	18,801.1	14,746.9	16,220.0	19,097.3	14,979.6	13,227.1	15,774.9	11,922.3	13,610.8	16,098.8	12,367.2

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

**Table 2. Abridged life tables by race and sex: United States, 1980**

[For explanation of the columns of the life tables, see section 5 of *Vital Statistics of the United States, 1978, Volume II*]

Age interval  Period of life between two exact ages stated in years  (1)	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)
x to x + n	$nq_x$	$l_x$	$n d_x$	$nL_x$	$T_x$	$e_x$
All races						
0-1	0.0127	100,000	1,266	98,901	7,371,986	73.7
1-5	.0025	98,734	250	394,355	7,273,085	73.7
5-10	.0015	98,484	150	492,017	6,878,730	69.8
10-15	.0015	98,334	152	491,349	6,386,713	64.9
15-20	.0049	98,182	482	489,817	5,895,364	60.0
20-25	.0066	97,700	648	486,901	5,405,547	55.3
25-30	.0066	97,052	638	483,665	4,918,646	50.7
30-35	.0070	96,414	672	480,463	4,434,981	46.0
35-40	.0091	95,742	875	476,663	3,954,518	41.3
40-45	.0139	94,867	1,321	471,250	3,477,855	36.7
45-50	.0222	93,546	2,079	462,857	3,006,605	32.1
50-55	.0351	91,467	3,209	449,811	2,543,748	27.8
55-60	.0530	88,258	4,676	430,230	2,093,937	23.7
60-65	.0794	83,582	6,638	402,081	1,663,707	19.9
65-70	.1165	76,944	8,965	363,181	1,261,626	16.4
70-75	.1694	67,979	11,517	312,015	898,445	13.2
75-80	.2427	56,462	13,702	248,534	586,430	10.4
80-85	.3554	42,760	15,197	175,192	337,896	7.9
85 and over	1.0000	27,563	27,563	162,704	162,704	5.9
Male						
0-1	0.0140	100,000	1,400	98,787	6,995,933	70.0
1-5	.0029	98,600	283	393,749	6,897,146	70.0
5-10	.0018	98,317	173	491,124	6,503,397	66.1
10-15	.0019	98,144	188	490,340	6,012,273	61.3
15-20	.0071	97,956	695	488,224	5,521,933	56.4
20-25	.0101	97,261	986	483,870	5,033,709	51.8
25-30	.0098	96,275	939	478,990	4,549,839	47.3
30-35	.0098	95,336	932	474,430	4,070,849	42.7
35-40	.0122	94,404	1,149	469,323	3,596,419	38.1
40-45	.0180	93,255	1,681	462,351	3,127,096	33.5
45-50	.0288	91,574	2,640	451,697	2,664,745	29.1
50-55	.0462	88,934	4,110	435,061	2,213,048	24.9
55-60	.0707	84,824	5,997	409,935	1,777,987	21.0
60-65	.1061	78,827	8,365	374,082	1,368,052	17.4
65-70	.1571	70,462	11,068	325,406	993,970	14.1
70-75	.2259	59,394	13,420	263,862	668,564	11.3
75-80	.3149	45,974	14,476	193,303	404,702	8.8
80-85	.4354	31,498	13,715	121,742	211,399	6.7
85 and over	1.0000	17,783	17,783	89,657	89,657	5.0
Female						
0-1	0.0113	100,000	1,126	99,021	7,748,490	77.5
1-5	.0022	98,874	215	394,990	7,649,469	77.4
5-10	.0013	98,659	126	492,954	7,254,479	73.5
10-15	.0011	98,533	113	492,411	6,761,525	68.6
15-20	.0027	98,420	261	491,492	6,269,114	63.7
20-25	.0031	98,159	305	490,045	5,777,622	58.9
25-30	.0034	97,854	334	488,463	5,287,577	54.0
30-35	.0042	97,520	412	486,634	4,799,114	49.2
35-40	.0062	97,108	601	484,140	4,312,480	44.4
40-45	.0100	96,507	963	480,283	3,828,340	39.7
45-50	.0160	95,544	1,524	474,134	3,348,057	35.0
50-55	.0247	94,020	2,322	464,624	2,873,923	30.6

Table 2. Abridged life tables by race and sex: United States, 1980—Con.

[For explanation of the columns of the life tables, see section 5 of *Vital Statistics of the United States, 1978, Volume II*]

Age interval  Period of life between two exact ages stated in years  (1)  x to x + n	Proportion dying	Of 100,000 born alive		Stationary population		Average remaining lifetime
	Proportion of persons alive at beginning of age interval dying during interval	Number living at beginning of age interval	Number dying during age interval	In the age interval	In this and all subsequent age intervals	Average number of years of life remaining at beginning of age interval
	(2)	(3)	(4)	(5)	(6)	(7)
	$nq_x$	$l_x$	$n d_x$	$nL_x$	$T_x$	$e_x$
Female—Con.						
55–60 .....	.0369	91,698	3,381	450,481	2,409,299	26.3
60–65 .....	.0558	88,317	4,931	429,930	1,958,818	22.2
65–70 .....	.0828	83,386	6,902	400,651	1,528,888	18.3
70–75 .....	.1261	76,484	9,643	359,605	1,128,237	14.8
75–80 .....	.1937	66,841	12,950	303,049	768,632	11.5
80–85 .....	.3088	53,891	16,639	228,072	465,583	8.6
85 and over.....	1.0000	37,252	37,252	237,511	237,511	6.4
White						
0–1 .....	0.0110	100,000	1,105	99,038	7,439,722	74.4
1–5 .....	.0023	98,895	227	395,058	7,340,684	74.2
5–10 .....	.0014	98,668	141	492,963	6,945,626	70.4
10–15 .....	.0015	98,527	147	492,324	6,452,663	65.5
15–20 .....	.0050	98,380	489	490,782	5,960,339	60.6
20–25 .....	.0062	97,891	609	487,937	5,469,557	55.9
25–30 .....	.0058	97,282	567	484,983	4,981,620	51.2
30–35 .....	.0060	96,715	581	482,185	4,496,637	46.5
35–40 .....	.0079	96,134	756	478,914	4,014,452	41.8
40–45 .....	.0121	95,378	1,155	474,216	3,535,538	37.1
45–50 .....	.0199	94,223	1,872	466,754	3,061,322	32.5
50–55 .....	.0323	92,351	2,980	454,804	2,594,568	28.1
55–60 .....	.0498	89,371	4,451	436,367	2,139,764	23.9
60–65 .....	.0760	84,920	6,452	409,249	1,703,397	20.1
65–70 .....	.1132	78,468	8,879	371,074	1,294,148	16.5
70–75 .....	.1662	69,589	11,565	320,047	923,074	13.3
75–80 .....	.2407	58,024	13,965	255,799	603,027	10.4
80–85 .....	.3549	44,059	15,634	180,622	347,228	7.9
85 and over.....	1.0000	28,425	28,425	166,606	166,606	5.9
White, male						
0–1 .....	0.0123	100,000	1,233	98,928	7,068,892	70.7
1–5 .....	.0026	98,767	259	394,478	6,969,964	70.6
5–10 .....	.0016	98,508	160	492,116	6,575,486	66.8
10–15 .....	.0019	98,348	184	491,369	6,083,370	61.9
15–20 .....	.0072	98,164	703	489,235	5,592,001	57.0
20–25 .....	.0095	97,461	927	484,997	5,102,766	52.4
25–30 .....	.0087	96,534	837	480,529	4,617,769	47.8
30–35 .....	.0084	95,697	800	476,553	4,137,240	43.2
35–40 .....	.0104	94,897	984	472,195	3,660,687	38.6
40–45 .....	.0157	93,913	1,470	466,164	3,188,492	34.0
45–50 .....	.0258	92,443	2,384	456,675	2,722,328	29.4
50–55 .....	.0426	90,059	3,833	441,382	2,265,653	25.2
55–60 .....	.0667	86,226	5,754	417,577	1,824,271	21.2
60–65 .....	.1020	80,472	8,212	382,727	1,406,694	17.5
65–70 .....	.1536	72,260	11,101	334,374	1,023,967	14.2
70–75 .....	.2237	61,159	13,682	272,110	689,593	11.3
75–80 .....	.3145	47,477	14,932	199,743	417,483	8.8
80–85 .....	.4363	32,545	14,199	125,737	217,740	6.7
85 and over.....	1.0000	18,346	18,346	92,003	92,003	5.0
White, female						
0–1 .....	0.0097	100,000	969	99,156	7,812,718	78.1
1–5 .....	.0020	99,031	193	395,676	7,713,562	77.9

**Table 2. Abridged life tables by race and sex: United States, 1980—Con.**

[For explanation of the columns of the life tables, see section 5 of *Vital Statistics of the United States, 1978, Volume II*]

<i>Age interval</i>	<i>Proportion dying</i>	<i>Of 100,000 born alive</i>		<i>Stationary population</i>		<i>Average remaining lifetime</i>
<i>Period of life between two exact ages stated in years</i>	<i>Proportion of persons alive at beginning of age interval dying during interval</i>	<i>Number living at beginning of age interval</i>	<i>Number dying during age interval</i>	<i>In the age interval</i>	<i>In this and all subsequent age intervals</i>	<i>Average number of years of life remaining at beginning of age interval</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
$x$ to $x+n$	$nq_x$	$l_x$	$n d_x$	$nL_x$	$T_x$	$e_x$
<b>White, female—Con.</b>						
5-10	.0012	98,838	119	493,868	7,317,886	74.0
10-15	.0011	98,719	108	493,350	6,824,018	69.1
15-20	.0027	98,611	265	492,434	6,330,668	64.2
20-25	.0029	98,346	283	491,029	5,838,234	59.4
25-30	.0029	98,063	287	489,619	5,347,205	54.5
30-35	.0036	97,776	356	488,043	4,857,586	49.7
35-40	.0054	97,420	524	485,886	4,369,543	44.9
40-45	.0086	96,896	836	482,541	3,883,657	40.1
45-50	.0141	96,060	1,357	477,123	3,401,116	35.4
50-55	.0225	94,703	2,127	468,520	2,923,993	30.9
55-60	.0342	92,576	3,169	455,395	2,455,473	26.5
60-65	.0527	89,407	4,709	435,930	2,000,078	22.4
65-70	.0792	84,698	6,707	407,755	1,564,148	18.5
70-75	.1220	77,991	9,514	367,579	1,156,393	14.8
75-80	.1907	68,477	13,059	311,089	788,814	11.5
80-85	.3075	55,418	17,042	234,762	477,725	8.6
85 and over	1.0000	38,376	38,376	242,963	242,963	6.3
<b>All other</b>						
0-1	0.0192	100,000	1,924	98,341	6,945,537	69.5
1-5	.0036	98,076	349	391,469	6,847,196	69.8
5-10	.0020	97,727	194	488,102	6,455,727	66.1
10-15	.0018	97,533	173	487,299	5,967,625	61.2
15-20	.0046	97,360	451	485,811	5,480,326	56.3
20-25	.0089	96,909	865	482,488	4,994,515	51.5
25-30	.0109	96,044	1,051	477,646	4,512,027	47.0
30-35	.0130	94,993	1,239	472,005	4,034,381	42.5
35-40	.0175	93,754	1,643	464,872	3,562,376	38.0
40-45	.0256	92,111	2,360	454,931	3,097,504	33.6
45-50	.0385	89,751	3,453	440,501	2,642,573	29.4
50-55	.0565	86,298	4,877	419,783	2,202,072	25.5
55-60	.0796	81,421	6,485	391,436	1,782,289	21.9
60-65	.1099	74,936	8,233	354,676	1,390,853	18.6
65-70	.1459	66,703	9,729	309,651	1,036,177	15.5
70-75	.1996	56,974	11,373	256,638	726,526	12.8
75-80	.2616	45,601	11,929	197,544	469,888	10.3
80-85	.3609	33,672	12,153	136,875	272,344	8.1
85 and over	1.0000	21,519	21,519	135,469	135,469	6.3
<b>All other, male</b>						
0-1	0.0209	100,000	2,086	98,205	6,526,494	65.3
1-5	.0040	97,914	392	390,729	6,428,289	65.7
5-10	.0024	97,522	229	486,988	6,037,560	61.9
10-15	.0022	97,293	210	486,039	5,550,572	57.1
15-20	.0068	97,083	657	483,998	5,064,533	52.2
20-25	.0138	96,426	1,335	478,966	4,580,535	47.5
25-30	.0164	95,091	1,563	471,574	4,101,569	43.1
30-35	.0194	93,528	1,810	463,265	3,629,995	38.8
35-40	.0250	91,718	2,288	453,123	3,166,730	34.5
40-45	.0344	89,430	3,078	439,773	2,713,607	30.3
45-50	.0515	86,352	4,443	421,092	2,273,834	26.3
50-55	.0761	81,909	6,230	394,543	1,852,742	22.6
55-60	.1054	75,679	7,978	358,993	1,458,199	19.3
60-65	.1434	67,701	9,708	314,703	1,099,206	16.2

Table 2. Abridged life tables by race and sex: United States, 1980—Con.

[For explanation of the columns of the life tables, see section 5 of *Vital Statistics of the United States, 1978, Volume II*]

<i>Age interval</i>	<i>Proportion dying</i>	<i>Of 100,000 born alive</i>		<i>Stationary population</i>		<i>Average remaining lifetime</i>
<i>Period of life between two exact ages stated in years</i>	<i>Proportion of persons alive at beginning of age interval dying during interval</i>	<i>Number living at beginning of age interval</i>	<i>Number dying during age interval</i>	<i>In the age interval</i>	<i>In this and all subsequent age intervals</i>	<i>Average number of years of life remaining at beginning of age interval</i>
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x + n	nq <sub>x</sub>	l <sub>x</sub>	n <sub>d</sub> <sub>x</sub>	nL <sub>x</sub>	T <sub>x</sub>	e <sub>x</sub>
All other, male—Con.						
65–70	.1880	57,993	10,904	262,986	784,503	13.5
70–75	.2464	47,089	11,601	206,355	521,517	11.1
75–80	.3178	35,488	11,278	148,224	315,162	8.9
80–85	.4257	24,210	10,306	93,880	166,938	6.9
85 and over	1.0000	13,904	13,904	73,058	73,058	5.3
All other, female						
0–1	0.0176	100,000	1,757	98,481	7,362,520	73.6
1–5	.0031	98,243	305	392,232	7,264,039	73.9
5–10	.0016	97,938	158	489,250	6,871,807	70.2
10–15	.0014	97,780	136	488,597	6,382,557	65.3
15–20	.0025	97,644	244	487,672	5,893,960	60.4
20–25	.0044	97,400	424	485,994	5,406,288	55.5
25–30	.0061	96,976	590	483,477	4,920,294	50.7
30–35	.0076	96,386	732	480,219	4,436,817	46.0
35–40	.0112	95,654	1,067	475,765	3,956,598	41.4
40–45	.0181	94,587	1,708	468,887	3,480,833	36.8
45–50	.0276	92,879	2,561	458,295	3,011,946	32.4
50–55	.0404	90,318	3,645	442,861	2,553,651	28.3
55–60	.0577	86,673	5,002	421,359	2,110,790	24.4
60–65	.0821	81,671	6,704	392,250	1,689,431	20.7
65–70	.1122	74,967	8,410	354,396	1,297,181	17.3
70–75	.1629	66,557	10,845	306,114	942,785	14.2
75–80	.2208	55,712	12,304	247,578	636,671	11.4
80–85	.3180	43,408	13,806	181,844	389,093	9.0
85 and over	1.0000	29,602	29,602	207,249	207,249	7.0
Black						
0–1	0.0214	100,000	2,145	98,147	6,798,966	68.0
1–5	.0038	97,855	372	390,529	6,700,819	68.5
5–10	.0021	97,483	204	486,853	6,310,290	64.7
10–15	.0018	97,279	179	486,016	5,823,437	59.9
15–20	.0046	97,100	451	484,516	5,337,421	55.0
20–25	.0094	96,649	912	481,086	4,852,905	50.2
25–30	.0121	95,737	1,157	475,854	4,371,819	45.7
30–35	.0150	94,580	1,422	469,504	3,895,965	41.2
35–40	.0200	93,158	1,864	461,369	3,426,461	36.8
40–45	.0291	91,294	2,655	450,136	2,965,092	32.5
45–50	.0434	88,639	3,848	433,978	2,514,956	28.4
50–55	.0627	84,791	5,319	411,161	2,080,978	24.5
55–60	.0874	79,472	6,948	380,551	1,669,817	21.0
60–65	.1192	72,524	8,648	341,570	1,289,266	17.8
65–70	.1558	63,876	9,949	294,934	947,696	14.8
70–75	.2117	53,927	11,415	241,243	652,762	12.1
75–80	.2745	42,512	11,668	182,691	411,519	9.7
80–85	.3773	30,844	11,637	124,008	228,828	7.4
85 and over	1.0000	19,207	19,207	104,820	104,820	5.5
Black, male						
0–1	0.0234	100,000	2,335	97,987	6,366,187	63.7
1–5	.0043	97,665	419	389,668	6,268,200	64.2
5–10	.0025	97,246	242	485,569	5,878,532	60.5
10–15	.0023	97,004	221	484,569	5,392,963	55.6

**Table 2. Abridged life tables by race and sex: United States, 1980—Con.**

[For explanation of the columns of the life tables, see section 5 of *Vital Statistics of the United States, 1978, Volume I*]

Age interval  Period of life between two exact ages stated in years  (1)	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)
x to x + n	$nq_x$	$l_x$	$n d_x$	$nL_x$	$T_x$	$e_x$
<b>Black, male—Con.</b>						
15–20.....	.0068	96,783	656	482,506	4,908,394	50.7
20–25.....	.0147	96,127	1,415	477,300	4,425,888	46.0
25–30.....	.0183	94,712	1,730	469,268	3,948,588	41.7
30–35.....	.0226	92,982	2,099	459,833	3,479,320	37.4
35–40.....	.0289	90,883	2,629	448,122	3,019,487	33.2
40–45.....	.0397	88,254	3,506	432,856	2,571,365	29.1
45–50.....	.0584	84,748	4,950	411,834	2,138,509	25.2
50–55.....	.0847	79,798	6,758	382,683	1,726,675	21.6
55–60.....	.1160	73,040	8,471	344,578	1,343,992	18.4
60–65.....	.1559	64,569	10,068	298,103	999,414	15.5
65–70.....	.2019	54,501	11,003	245,198	701,311	12.9
70–75.....	.2632	43,498	11,449	188,676	456,113	10.5
75–80.....	.3351	32,049	10,739	132,368	267,437	8.3
80–85.....	.4438	21,310	9,457	81,589	135,069	6.3
85 and over.....	1.0000	11,853	11,853	53,480	53,480	4.5
<b>Black, female</b>						
0–1.....	0.0195	100,000	1,949	98,313	7,228,626	72.3
1–5.....	.0033	98,051	323	391,420	7,130,313	72.7
5–10.....	.0017	97,728	164	488,183	6,738,893	69.0
10–15.....	.0014	97,564	135	487,518	6,250,710	64.1
15–20.....	.0025	97,429	246	486,591	5,763,192	59.2
20–25.....	.0046	97,183	447	484,857	5,276,601	54.3
25–30.....	.0066	96,736	641	482,155	4,791,744	49.5
30–35.....	.0085	96,095	821	478,556	4,309,589	44.8
35–40.....	.0125	95,274	1,193	473,573	3,831,033	40.2
40–45.....	.0202	94,081	1,899	465,900	3,357,460	35.7
45–50.....	.0309	92,182	2,849	454,109	2,891,560	31.4
50–55.....	.0446	89,333	3,985	437,103	2,437,451	27.3
55–60.....	.0634	85,348	5,410	413,741	2,000,348	23.4
60–65.....	.0891	79,938	7,121	382,564	1,586,607	19.8
65–70.....	.1197	72,817	8,718	342,880	1,204,043	16.5
70–75.....	.1729	64,099	11,084	293,205	861,163	13.4
75–80.....	.2323	53,015	12,315	233,979	567,958	10.7
80–85.....	.3342	40,700	13,603	168,713	333,979	8.2
85 and over.....	1.0000	27,097	27,097	165,266	165,266	6.1

**Table 3. Deaths under 1 year and infant mortality rates for the 10 leading causes of infant death: United States, 1980**

[Rates per 100,000 live births]

<i>Rank order</i> <sup>1</sup>	<i>Cause of death</i> (Ninth Revision International Classification of Diseases, 1975)	<i>Number</i>	<i>Rate</i>
...	All causes .....	45,526	1,260.3
1	Congenital anomalies .....	740-759 9,220	255.2
2	Sudden infant death syndrome .....	798.0 5,510	152.5
3	Respiratory distress syndrome .....	769 4,989	138.1
4	Disorders relating to short gestation and unspecified low birthweight .....	765 3,648	101.0
5	Newborn affected by maternal complications of pregnancy .....	761 1,572	43.5
6	Intrauterine hypoxia and birth asphyxia .....	768 1,497	41.4
7	Accidents and adverse effects .....	E800-E949 1,166	32.3
8	Birth trauma .....	767 1,058	29.3
9	Pneumonia and influenza .....	480-487 1,012	28.0
10	Infections specific to the perinatal period .....	771 971	26.9
...	All other causes .....	Residual 14,883	412.0

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



Table 4. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1979 and 1980

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Year	Age												Age-adjusted rate <sup>2</sup>
		All ages <sup>1</sup>	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
All causes . . . . .	1980	878.3	1,288.3	63.9	30.6	115.4	135.5	227.9	584.0	1,346.3	2,994.9	6,692.6	15,980.3	585.8
	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	1980	336.0	22.8	2.6	0.9	2.9	8.3	44.6	180.2	494.1	1,218.6	2,993.1	7,777.1	202.0
	1979	326.5	20.2	2.1	0.8	2.6	8.4	45.3	184.6	499.0	1,199.8	2,925.2	7,310.9	199.5
Rheumatic fever and rheumatic heart disease . . . . . 390-398	1980	3.5	0.1	0.0	0.1	0.2	0.4	1.3	3.7	7.8	15.7	22.2	23.9	2.6
	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	1980	9.3	0.0	-	0.0	0.0	0.3	1.9	6.3	15.8	34.8	80.7	176.3	5.9
	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	1980	1.6	-	0.0	-	0.0	0.0	0.1	0.5	1.5	4.9	16.5	53.1	0.9
	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	1980	249.7	0.8	0.1	0.0	0.3	3.2	29.1	131.9	372.4	930.6	2,254.8	5,652.1	149.8
	1979	245.5	0.7	0.1	0.0	0.3	3.6	30.1	136.1	381.0	926.6	2,224.8	5,376.1	149.7
Acute myocardial infarction . . . . . 410	1980	132.2	0.6	0.1	0.0	0.2	2.1	19.6	89.6	245.8	570.1	1,126.6	1,961.5	85.9
	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	1980	2.1	-	-	-	0.0	0.1	0.5	2.1	4.5	8.2	15.1	31.0	1.4
	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	1980	0.2	-	-	-	-	0.0	0.1	0.1	0.4	1.0	2.4	4.2	0.2
	1979	0.2	0.0	-	-	0.0	0.0	0.1	0.1	0.3	0.9	2.1	4.6	0.1
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . . 412, 414	1980	115.1	0.3	0.0	0.0	0.1	1.0	9.0	40.1	121.7	351.4	1,110.7	3,655.3	62.3
	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	1980	3.2	0.2	0.0	0.0	0.2	0.3	0.6	1.5	4.6	12.0	30.1	57.3	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	1980	68.7	21.6	2.4	0.8	2.1	4.0	11.5	36.3	92.0	220.7	588.8	1,814.4	40.8
	1979	63.7	19.0	2.0	0.7	1.9	3.7	11.0	35.7	88.1	204.8	555.9	1,641.4	38.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	1980	183.9	3.2	4.5	4.3	6.3	13.7	48.6	180.0	436.1	817.9	1,232.2	1,594.6	132.8
	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	1980	3.8	-	0.0	0.0	0.0	0.1	1.2	5.3	11.6	16.0	18.5	23.3	2.9
	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	1980	48.8	0.3	0.2	0.1	0.4	1.7	8.0	35.8	102.6	221.5	389.5	565.6	33.0
	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	1980	47.9	0.2	0.1	0.0	0.1	0.8	9.6	56.5	144.3	243.1	251.4	184.5	36.4
	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	1980	15.8	-	-	0.0	0.0	1.7	9.2	25.0	43.2	57.7	80.3	118.6	12.5
	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	1980	20.5	-	0.0	0.0	0.5	1.6	4.6	14.1	35.9	88.3	177.2	267.0	13.6
	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	1980	7.9	0.3	0.2	0.1	0.1	0.2	1.0	5.3	15.4	35.8	65.2	98.2	5.2
	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	1980	22.4	1.5	2.3	1.7	2.3	4.0	8.9	24.3	50.9	89.2	133.6	187.0	16.9
	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

See footnotes and note at end of table.

**Table 4. Age-specific and age-adjusted death rates for 15 leading causes and selected components: United States, 1979 and 1980—Con.**

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	Year	Age												Age-adjusted rate <sup>2</sup>
		All ages <sup>1</sup>	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	
<b>Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues—Con.</b>														
Leukemia . . . . . 204-208	1980	7.3	0.9	1.5	1.9	1.7	1.9	2.9	5.3	11.8	25.9	50.7	78.2	5.4
	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	1980	9.5	0.1	0.2	0.4	1.0	1.8	3.3	8.4	20.4	40.3	66.0	72.2	6.9
	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	1980	75.1	4.4	0.5	0.3	1.0	2.6	8.5	25.2	65.2	219.5	788.6	2,288.9	40.8
	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	1980	46.7	33.0	25.9	15.0	61.7	46.3	37.3	39.0	42.6	57.7	120.3	292.5	42.3
	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	1980	23.5	7.0	9.2	7.9	44.8	29.1	20.9	18.6	17.4	19.2	28.1	27.6	22.9
	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	1980	23.2	26.0	16.7	7.1	16.9	17.2	16.4	20.4	25.2	38.5	92.2	264.9	19.5
	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	1980	24.7	1.6	0.4	0.2	0.3	0.5	1.6	9.8	42.7	129.1	224.4	274.0	15.9
	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	1980	24.1	28.6	2.1	0.6	0.8	1.5	3.5	7.7	18.6	55.6	220.0	885.7	12.9
	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	1980	15.4	0.1	0.1	0.1	0.3	1.5	3.5	9.6	26.7	64.9	131.1	221.9	10.1
	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
Chronic liver disease and cirrhosis . . . . . 571	1980	13.5	0.9	0.1	0.0	0.3	3.5	13.6	30.9	41.6	43.1	30.6	19.9	12.2
	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	1980	13.0	0.1	-	-	0.0	0.0	0.2	1.2	4.8	23.6	125.5	656.5	5.7
	1979	12.8	0.1	-	-	0.0	0.0	0.1	0.9	4.8	24.4	125.3	649.1	5.7
Suicide . . . . . E950-E959	1980	11.9	...	...	0.4	12.3	16.0	15.4	15.9	15.9	16.9	19.1	19.2	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
Homicide and legal intervention . . . . . E960-E978	1980	10.7	5.9	2.5	1.2	15.6	19.6	15.1	11.1	7.0	5.7	5.2	5.3	10.8
	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	1980	10.1	643.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	( <sup>3</sup> )
	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	( <sup>3</sup> )
Nephritis, nephrotic syndrome, and nephrosis . . . . . 580-589	1980	7.4	6.4	0.2	0.1	0.3	0.7	1.4	3.6	9.0	24.6	67.8	174.1	4.5
	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
Congenital anomalies . . . . . 740-759	1980	6.2	260.9	8.0	1.6	1.4	1.3	1.3	1.7	2.2	2.9	3.7	4.6	( <sup>3</sup> )
	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	( <sup>3</sup> )
Septicemia . . . . . 038	1980	4.2	6.8	0.6	0.1	0.2	0.4	0.9	2.3	5.8	13.7	35.5	87.8	2.6
	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

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

<sup>2</sup>For method of computation, see Technical notes.

<sup>3</sup>Since deaths from these causes occur mainly among infants, rates adjusted to the total population in 1940 are not shown.

NOTE: Rates for 1979 have been revised; see Technical notes.

**Table 5. Deaths from 72 selected causes by age: United States, 1980**

<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 .....	1,989,841	45,526	8,187	10,689	49,027	50,240	58,418	133,157	292,181	466,621	517,257	357,970	568
Shigellosis and amebiasis.....004, 006	37	5	4	3	1	4	2	2	5	4	6	1	-
Certain other intestinal infections ... 007-009	364	112	20	7	5	10	3	13	27	40	59	68	-
Tuberculosis .....010-018	1,978	2	6	4	11	44	110	243	364	542	436	214	2
Tuberculosis of respiratory system .....010-012	1,638	-	-	-	8	26	85	199	313	452	368	185	2
Other tuberculosis.....013-018	340	2	6	4	3	18	25	44	51	90	68	29	-
Whooping cough .....033	11	10	1	-	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas.....034-035	15	1	-	1	-	-	1	1	3	1	4	3	-
Meningococcal infection .....036	387	77	110	34	38	29	11	21	23	23	15	6	-
Septicemia .....038	9,438	242	71	38	81	137	232	530	1,261	2,135	2,741	1,967	3
Acute poliomyelitis.....045	6	-	-	-	-	-	1	1	1	2	1	-	-
Measles.....055	11	2	2	2	3	2	-	-	-	-	-	-	-
Viral hepatitis .....070	809	11	11	15	74	71	76	108	145	149	114	35	-
Syphilis .....090-097	154	2	-	-	2	2	6	5	12	51	52	22	-
All other infectious and parasitic diseases .....001-003, 005, 020-032, 037, 039-041, 046-054, 056-066, 071-088, 098-139	4,078	232	97	92	165	214	238	397	677	863	682	420	1
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues .....140-208	416,509	113	573	1,497	2,683	5,081	12,470	41,030	94,645	127,430	95,239	35,720	28
Malignant neoplasms of lip, oral cavity, and pharynx .....140-149	8,553	-	2	8	21	51	298	1,207	2,518	2,495	1,429	523	1
Malignant neoplasms of digestive organs and peritoneum.....150-159	110,647	12	29	31	173	635	2,052	8,155	22,265	34,510	30,102	12,670	13
Malignant neoplasms of respiratory and intrathoracic organs .....160-165	108,504	7	7	16	58	283	2,473	12,892	31,323	37,877	19,427	4,134	7
Malignant neoplasm of breast ...174-175	35,897	-	-	2	14	615	2,348	5,696	9,368	8,992	6,205	2,656	1
Malignant neoplasms of genital organs .....179-187	46,430	-	3	12	221	579	1,174	3,210	7,793	13,764	13,692	5,980	2
Malignant neoplasms of urinary organs .....188-189	17,828	9	22	42	35	85	259	1,203	3,353	5,581	5,037	2,200	2
Malignant neoplasms of all other and unspecified sites ....170-173, 190-199	50,679	52	297	589	996	1,479	2,271	5,550	11,038	13,892	10,325	4,189	1
Leukemia .....204-208	16,533	31	188	655	735	696	744	1,210	2,569	4,033	3,921	1,751	-
Other malignant neoplasms of lymphatic and hematopoietic tissues ....200-203	21,438	2	25	142	430	658	851	1,907	4,418	6,286	5,101	1,617	1
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.....210-239	6,193	67	38	104	130	195	264	541	1,057	1,569	1,530	698	-
Diabetes mellitus .....250	34,851	4	12	37	128	572	900	2,188	5,789	10,111	10,134	4,971	5
Nutritional deficiencies.....260-269	2,364	29	9	3	9	18	26	57	153	372	728	960	-
Anemias .....280-285	3,238	24	63	79	133	157	98	137	282	589	922	754	-
Meningitis .....320-322	1,415	443	223	51	49	39	50	78	146	173	118	45	-
Major cardiovascular diseases .....390-448	988,545	984	407	450	1,750	4,281	14,079	48,328	126,257	235,800	310,704	245,331	174
Diseases of heart...390-398, 402, 404-429	761,085	806	338	330	1,223	3,080	11,433	41,078	107,244	189,867	231,326	174,213	147
Rheumatic fever and rheumatic heart disease.....390-398	7,836	4	6	23	86	153	341	838	1,696	2,441	1,712	535	1
Hypertensive heart disease .....402	21,095	1	-	1	20	116	485	1,442	3,421	5,417	6,238	3,949	5
Hypertensive heart and renal disease .....404	3,711	-	1	-	2	14	31	110	321	765	1,277	1,190	-

**Table 5. Deaths from 72 selected causes by age: United States, 1980—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>
<b>Major cardiovascular diseases—Con.</b>													
<b>Diseases of heart—Con.</b>													
Ischemic heart disease . . . . . 410-414	565,755	29	16	17	145	1,203	7,472	30,074	80,827	144,998	174,268	126,611	95
Acute myocardial infarction . . . . . 410	299,584	20	13	11	96	780	5,018	20,432	53,352	88,820	87,072	43,940	30
Other acute and subacute forms of ischemic heart disease . . . . . 411	4,773	-	-	-	5	34	133	480	987	1,271	1,164	695	4
Angina pectoris . . . . . 413	561	-	-	-	-	3	15	28	76	157	187	95	-
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . . 412, 414	260,837	9	3	6	44	386	2,306	9,134	26,412	54,750	85,845	81,881	61
Other diseases of endocardium . . . . . 424	7,164	8	2	11	69	98	151	347	1,006	1,864	2,324	1,284	-
All other forms of heart disease . . . . . 415-423, 425-429	155,524	764	313	278	901	1,496	2,953	8,267	19,973	34,382	45,507	40,644	46
Hypertension with or without renal disease . . . . . 401, 403	7,827	4	1	7	18	64	151	408	931	1,742	2,449	2,050	2
Cerebrovascular diseases . . . . . 430-438	170,225	155	59	95	418	965	2,189	5,750	14,159	34,194	60,949	51,274	18
Intracerebral and other intracranial hemorrhage . . . . . 431-432	20,772	93	22	49	143	295	783	1,904	3,479	5,111	5,730	3,160	3
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . . 434.0, 434.9	34,048	15	12	3	28	58	133	549	2,268	6,441	12,942	11,596	3
Cerebral embolism . . . . . 434.1	795	1	-	1	3	11	15	43	85	192	289	155	-
All other and late effects of cerebrovascular diseases . . . . . 430, 433, 435-438	114,610	46	25	42	244	601	1,258	3,254	8,327	22,450	41,988	36,363	12
Atherosclerosis . . . . . 440	29,449	2	-	-	2	9	44	270	1,035	3,679	9,696	14,706	6
Other diseases of arteries, arterioles, and capillaries . . . . . 441-448	19,959	17	9	18	89	163	262	822	2,888	6,318	6,284	3,088	1
Acute bronchitis and bronchiolitis . . . . . 466	642	87	34	7	14	13	9	23	58	89	145	163	-
Pneumonia and influenza . . . . . 480-487	54,619	1,012	267	194	348	563	904	1,760	4,044	8,668	17,003	19,841	15
Pneumonia . . . . . 480-486	51,917	1,000	255	184	336	550	875	1,727	3,933	8,347	16,142	18,553	15
Influenza . . . . . 487	2,702	12	12	10	12	13	29	33	111	321	861	1,288	-
Chronic obstructive pulmonary diseases and allied conditions . . . . . 490-496	56,050	57	47	85	141	202	411	2,237	9,277	20,110	17,340	6,137	6
Bronchitis, chronic and unspecified . . . . . 490-491	3,728	42	21	12	12	16	35	133	556	1,180	1,143	578	-
Emphysema . . . . . 492	13,877	3	-	2	6	19	76	558	2,462	5,214	4,262	1,274	1
Asthma . . . . . 493	2,891	8	21	61	105	130	145	309	529	765	596	222	-
Other chronic obstructive pulmonary diseases and allied conditions . . . . . 494-496	35,554	4	5	10	18	37	155	1,237	5,730	12,951	11,339	4,063	5
Ulcer of stomach and duodenum . . . . . 531-533	6,115	11	10	11	25	61	143	360	882	1,536	1,841	1,235	-
Appendicitis . . . . . 540-543	701	10	12	23	28	22	25	49	126	135	171	100	-
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . . 550-553, 560	5,415	131	27	25	47	50	103	211	489	1,031	1,710	1,591	-
Chronic liver disease and cirrhosis . . . . . 571	30,583	33	12	11	122	1,292	3,490	7,050	9,039	6,709	2,364	446	15
Cholelithiasis and other disorders of gallbladder . . . . . 574-575	3,285	1	-	-	13	31	49	119	321	721	1,132	898	-
Nephritis, nephrotic syndrome, and nephrosis . . . . . 580-589	16,753	225	26	31	111	246	362	824	1,957	3,827	5,240	3,901	3
Acute glomerulonephritis and nephrotic syndrome . . . . . 580-581	328	7	5	4	6	10	11	22	37	61	101	64	-

Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . . 582-583, 587	2,245	-	2	5	30	46	65	124	257	524	694	498	-
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . 584-586, 588-589	14,180	218	19	22	75	190	286	678	1,663	3,242	4,445	3,339	3
Infections of kidney . . . . . 590	2,732	6	-	4	6	28	42	94	195	537	958	862	-
Hyperplasia of prostate . . . . . 600	754	-	-	-	-	-	-	4	27	132	310	281	-
Complications of pregnancy, childbirth, and the puerperium . . . . . 630-676	334	...	...	-	114	160	58	2	...	...	...	...	...
Pregnancy with abortive outcome . . . . . 630-638	62	...	...	-	20	33	9	-	...	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium . . . 640-676	272	...	...	-	94	127	49	2	...	...	...	...	...
Congenital anomalies . . . . . 740-759	13,938	9,220	1,026	561	600	482	335	390	485	445	288	103	3
Certain conditions originating in the perinatal period . . . . . 760-779	22,866	22,745	84	12	10	3	1	1	4	1	-	1	4
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . . 767-769	7,580	7,544	26	7	1	-	-	1	1	-	-	-	-
Other conditions originating in the perinatal period . . . . . 760-766, 770-779	15,286	15,201	58	5	9	3	1	-	3	1	-	1	4
Symptoms, signs, and ill-defined conditions . . . . . 780-799	28,808	6,088	288	151	881	1,266	1,140	1,935	3,565	4,826	4,800	3,804	64
All other diseases . . . . . Residual	115,292	2,096	975	1,294	2,511	3,722	4,883	8,938	16,247	25,233	29,137	20,232	24
Accidents and adverse effects . . . E800-E949	105,718	1,166	3,313	5,224	26,206	17,161	9,561	8,887	9,253	8,997	9,295	6,552	103
Motor vehicle accidents . . . . . E810-E825	53,172	247	1,179	2,747	19,040	10,785	5,348	4,235	3,787	2,991	2,168	619	26
All other accidents and adverse effects . . . . . E800-E807, E826-E949	52,546	919	2,134	2,477	7,166	6,376	4,213	4,652	5,466	6,006	7,127	5,933	77
Suicide . . . . . E950-E959	26,869	...	...	142	5,239	5,920	3,935	3,623	3,456	2,630	1,477	430	17
Homicide and legal intervention . . . E960-E978	24,278	210	319	415	6,647	7,267	3,869	2,530	1,527	895	405	118	76
All other external causes . . . . . E980-E999	3,686	68	100	82	702	895	531	440	382	245	156	60	25

**Table 6. Death rates for 72 selected causes by age: United States, 1980**

(Rates per 100,000 population in specified group)

<i>Cause of death</i> (Ninth Revision International Classification of Diseases, 1975)	<i>All ages</i> <sup>1</sup>	<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>
All causes . . . . .	878.3	1,288.3	63.9	30.6	115.4	135.5	227.9	584.0	1,346.3	2,994.9	6,692.6	15,980.3
Shigellosis and amebiasis . . . . . 004, 006	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Certain other intestinal infections . . . . . 007-009	0.2	3.2	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.3	0.8	3.0
Tuberculosis . . . . . 010-018	0.9	0.1	0.0	0.0	0.0	0.1	0.4	1.1	1.7	3.5	5.6	9.6
Tuberculosis of respiratory system . . . . . 010-012	0.7	-	-	-	0.0	0.1	0.3	0.9	1.4	2.9	4.8	8.3
Other tuberculosis . . . . . 013-018	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.6	0.9	1.3
Whooping cough . . . . . 033	0.0	0.3	0.0	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas . . . . . 034-035	0.0	0.0	-	0.0	-	-	0.0	0.0	0.0	0.0	0.1	0.1
Meningococcal infection . . . . . 036	0.2	2.2	0.9	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.3
Septicemia . . . . . 038	4.2	6.8	0.6	0.1	0.2	0.4	0.9	2.3	5.8	13.7	35.5	87.8
Acute poliomyelitis . . . . . 045	0.0	-	-	-	-	-	0.0	0.0	0.0	0.0	0.0	-
Measles . . . . . 055	0.0	0.1	0.0	0.0	0.0	0.0	-	-	-	-	-	-
Viral hepatitis . . . . . 070	0.4	0.3	0.1	0.0	0.2	0.2	0.3	0.5	0.7	1.0	1.5	1.6
Syphilis . . . . . 090-097	0.1	0.1	-	-	0.0	0.0	0.0	0.0	0.1	0.3	0.7	1.0
All other infectious and parasitic diseases . . . . . 001-003, 005, 020-032, 037, 039-041, 046-054, 056-066, 071-088, 098-139	1.8	6.6	0.8	0.3	0.4	0.6	0.9	1.7	3.1	5.5	8.8	18.7
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	183.9	3.2	4.5	4.3	6.3	13.7	48.6	180.0	436.1	817.9	1,232.3	1,594.6
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	3.8	-	0.0	0.0	0.0	0.1	1.2	5.3	11.6	16.0	18.5	23.3
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	48.8	0.3	0.2	0.1	0.4	1.7	8.0	35.8	102.6	221.5	389.5	565.6
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	47.9	0.2	0.1	0.0	0.1	0.8	9.6	56.5	144.3	243.1	251.4	184.5
Malignant neoplasm of breast . . . . . 174-175	15.8	-	-	0.0	0.0	1.7	9.2	25.0	43.2	57.7	80.3	118.6
Malignant neoplasms of genital organs . . . . . 179-187	20.5	-	0.0	0.0	0.5	1.6	4.6	14.1	35.9	88.3	177.2	267.0
Malignant neoplasms of urinary organs . . . . . 188-189	7.9	0.3	0.2	0.1	0.1	0.2	1.0	5.3	15.4	35.8	65.2	98.2
Malignant neoplasms of all other and unspecified sites . . . . . 170-173, 190-199	22.4	1.5	2.3	1.7	2.3	4.0	8.9	24.3	50.9	89.2	133.6	187.0
Leukemia . . . . . 204-208	7.3	0.9	1.5	1.9	1.7	1.9	2.9	5.3	11.8	25.9	50.7	78.2
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	9.5	0.1	0.2	0.4	1.0	1.8	3.3	8.4	20.4	40.3	66.0	72.2
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	2.7	1.9	0.3	0.3	0.3	0.5	1.0	2.4	4.9	10.1	19.8	31.2
Diabetes mellitus . . . . . 250	15.4	0.1	0.1	0.1	0.3	1.5	3.5	9.6	26.7	64.9	131.1	221.9
Nutritional deficiencies . . . . . 260-269	1.0	0.8	0.1	0.0	0.0	0.0	0.1	0.3	0.7	2.4	9.4	42.9
Anemias . . . . . 280-285	1.4	0.7	0.5	0.2	0.3	0.4	0.4	0.6	1.3	3.8	11.9	33.7
Meningitis . . . . . 320-322	0.6	12.5	1.7	0.1	0.1	0.1	0.2	0.3	0.7	1.1	1.5	2.0
Major cardiovascular diseases . . . . . 390-448	436.4	27.8	3.2	1.3	4.1	11.5	54.9	212.0	581.8	1,513.4	4,020.1	10,951.9
Diseases of heart . . . . . 390-398, 402, 404-429	336.0	22.8	2.6	0.9	2.9	8.3	44.6	180.2	494.1	1,218.6	2,993.1	7,777.1
Rheumatic fever and rheumatic heart disease . . . . . 390-398	3.5	0.1	0.0	0.1	0.2	0.4	1.3	3.7	7.8	15.7	22.2	23.9
Hypertensive heart disease . . . . . 402	9.3	0.0	-	0.0	0.0	0.3	1.9	6.3	15.8	34.8	80.7	176.3
Hypertensive heart and renal disease . . . . . 404	1.6	-	0.0	-	0.0	0.0	0.1	0.5	1.5	4.9	16.5	53.1
Ischemic heart disease . . . . . 410-414	249.7	0.8	0.1	0.0	0.3	3.2	29.1	131.9	372.4	930.6	2,254.8	5,652.1
Acute myocardial infarction . . . . . 410	132.2	0.6	0.1	0.0	0.2	2.1	19.6	89.6	245.8	570.1	1,126.6	1,961.5
Other acute and subacute forms of ischemic heart disease . . . . . 411	2.1	-	-	-	0.0	0.1	0.5	2.1	4.5	8.2	15.1	31.0

Angina pectoris . . . . .	413	0.2	-	-	-	-	0.0	0.1	0.1	0.4	1.0	2.4	4.2
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412, 414	115.1	0.3	0.0	0.0	0.1	1.0	9.0	40.1	121.7	351.4	1,110.7	3,655.3
Other diseases of endocardium . . . . .	424	3.2	0.2	0.0	0.0	0.2	0.3	0.6	1.5	4.6	12.0	30.1	57.3
All other forms of heart disease . . . . .	415-423, 425-429	68.7	21.6	2.4	0.8	2.1	4.0	11.5	36.3	92.0	220.7	588.8	1,814.4
Hypertension with or without renal disease . . . . .	401, 403	3.5	0.1	0.0	0.0	0.0	0.2	0.6	1.8	4.3	11.2	31.7	91.5
Cerebrovascular diseases . . . . .	430-438	75.1	4.4	0.5	0.3	1.0	2.6	8.5	25.2	65.2	219.5	788.6	2,288.9
Intracerebral and other intracranial hemorrhage . . . . .	431-432	9.2	2.6	0.2	0.1	0.3	0.8	3.1	8.4	16.0	32.8	74.1	141.1
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0, 434.9	15.0	0.4	0.1	0.0	0.1	0.2	0.5	2.4	10.5	41.3	167.5	517.7
Cerebral embolism . . . . .	434.1	0.4	0.0	-	0.0	0.0	0.0	0.1	0.2	0.4	1.2	3.7	6.9
All other and late effects of cerebrovascular diseases . . . . .	430, 433, 435-438	50.6	1.3	0.2	0.1	0.6	1.6	4.9	14.3	38.4	144.1	543.3	1,623.3
Atherosclerosis . . . . .	440	13.0	0.1	-	-	0.0	0.0	0.2	1.2	4.8	23.6	125.5	656.5
Other diseases of arteries, arterioles, and capillaries . . . . .	441-448	8.8	0.5	0.1	0.1	0.2	0.4	1.0	3.6	13.3	40.6	81.3	137.9
Acute bronchitis and bronchiolitis . . . . .	466	0.3	2.5	0.3	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.9	7.3
Pneumonia and influenza . . . . .	480-487	24.1	28.6	2.1	0.6	0.8	1.5	3.5	7.7	18.6	55.6	220.0	885.7
Pneumonia . . . . .	480-486	22.9	28.3	2.0	0.5	0.8	1.5	3.4	7.6	18.1	53.6	208.9	828.2
Influenza . . . . .	487	1.2	0.3	0.1	0.0	0.0	0.0	0.1	0.1	0.5	2.1	11.1	57.5
Chronic obstructive pulmonary diseases and allied conditions . . . . .	490-496	24.7	1.6	0.4	0.2	0.3	0.5	1.6	9.8	42.7	129.1	224.4	274.0
Bronchitis, chronic and unspecified . . . . .	490-491	1.6	1.2	0.2	0.0	0.0	0.0	0.1	0.6	2.6	7.6	14.8	25.8
Emphysema . . . . .	492	6.1	0.1	-	0.0	0.0	0.1	0.3	2.4	11.3	33.5	55.1	56.9
Asthma . . . . .	493	1.3	0.2	0.2	0.2	0.2	0.4	0.6	1.4	2.4	4.9	7.7	9.9
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494-496	15.7	0.1	0.0	0.0	0.0	0.1	0.6	5.4	26.4	83.1	146.7	181.4
Ulcer of stomach and duodenum . . . . .	531-533	2.7	0.3	0.1	0.0	0.1	0.2	0.6	1.6	4.1	9.9	23.8	55.1
Appendicitis . . . . .	540-543	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.6	0.9	2.2	4.5
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	550-553, 560	2.4	3.7	0.2	0.1	0.1	0.1	0.4	0.9	2.3	6.6	22.1	71.0
Chronic liver disease and cirrhosis . . . . .	571	13.5	0.9	0.1	0.0	0.3	3.5	13.6	30.9	41.6	43.1	30.6	19.9
Cholelithiasis and other disorders of gallbladder . . . . .	574-575	1.5	0.0	-	-	0.0	0.1	0.2	0.5	1.5	4.6	14.6	40.1
Nephritis, nephrotic syndrome, and nephrosis . . . . .	580-589	7.4	6.4	0.2	0.1	0.3	0.7	1.4	3.6	9.0	24.6	67.8	174.1
Acute glomerulonephritis and nephrotic syndrome . . . . .	580-581	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	1.3	2.9
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	582-583, 587	1.0	-	0.0	0.0	0.1	0.1	0.3	0.5	1.2	3.4	9.0	22.2
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584-586, 588-589	6.3	6.2	0.1	0.1	0.2	0.5	1.1	3.0	7.7	20.8	57.5	149.1
Infections of kidney . . . . .	590	1.2	0.2	-	0.0	0.0	0.1	0.2	0.4	0.9	3.4	12.4	38.5
Hyperplasia of prostate . . . . .	600	0.3	-	-	-	-	-	-	0.0	0.1	0.8	4.0	12.5
Complications of pregnancy, childbirth, and the puerperium . . . . .	630-676	0.1	...	...	-	0.3	0.4	0.2	0.0	...	...	...	...
Pregnancy with abortive outcome . . . . .	630-638	0.0	...	...	-	0.0	0.1	0.0	-	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium . . . . .	640-676	0.1	...	...	-	0.2	0.3	0.2	0.0	...	...	...	...
Congenital anomalies . . . . .	740-759	6.2	260.9	8.0	1.6	1.4	1.3	1.3	1.7	2.2	2.9	3.7	4.6
Certain conditions originating in the perinatal period . . . . .	760-779	10.1	643.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767-769	3.3	213.5	0.2	0.0	0.0	-	-	0.0	0.0	-	-	-
Other conditions originating in the perinatal period . . . . .	760-766, 770-779	6.7	430.2	0.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

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

**Table 6. Death rates for 72 selected causes by age: United States, 1980—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> <sup>1</sup>	<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>
Symptoms, signs, and ill-defined conditions. . . . . 780-799	12.7	172.3	2.2	0.4	2.1	3.4	4.4	8.5	16.4	31.0	62.1	169.8
All other diseases . . . . . Residual	50.9	59.3	7.6	3.7	5.9	10.0	19.0	39.2	74.9	162.0	377.0	903.2
Accidents and adverse effects . . . . . E800-E949	46.7	33.0	25.9	15.0	61.7	46.3	37.3	39.0	42.6	57.7	120.3	292.5
Motor vehicle accidents . . . . . E810-E825	23.5	7.0	9.2	7.9	44.8	29.1	20.9	18.6	17.4	19.2	28.1	27.6
All other accidents and adverse effects . . . . . E800-E807, E826-E949	23.2	26.0	16.7	7.1	16.9	17.2	16.4	20.4	25.2	38.5	92.2	264.9
Suicide . . . . . E950-E959	11.9	...	...	0.4	12.3	16.0	15.4	15.9	15.9	16.9	19.1	19.2
Homicide and legal intervention . . . . . E960-E978	10.7	5.9	2.5	1.2	15.6	19.6	15.1	11.1	7.0	5.7	5.2	5.3
All other external causes . . . . . E980-E999	1.6	1.9	0.8	0.2	1.7	2.4	2.1	1.9	1.8	1.6	2.0	2.7

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



Table 7. Deaths from 72 selected causes by race and sex: United States, 1980

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.....	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
Shigellosis and amebiasis..... 004, 006	37	21	16	28	14	14	9	7	2	7	5	2
Certain other intestinal infections..... 007-009	364	162	202	286	122	164	78	40	38	72	36	36
Tuberculosis..... 010-018	1,978	1,331	647	1,253	856	397	725	475	250	651	443	208
Tuberculosis of respiratory system..... 010-012	1,638	1,148	490	1,067	752	315	571	396	175	518	373	145
Other tuberculosis..... 013-018	340	183	157	186	104	82	154	79	75	133	70	63
Whooping cough..... 033	11	4	7	8	4	4	3	-	3	3	-	3
Streptococcal sore throat, scarlatina, and erysipelas..... 034-035	15	6	9	13	4	9	2	2	-	1	1	-
Meningococcal infection..... 036	387	204	183	306	158	148	81	46	35	72	41	31
Septicemia..... 038	9,438	4,684	4,754	7,461	3,672	3,789	1,977	1,012	965	1,877	958	919
Acute poliomyelitis..... 045	6	4	2	4	3	1	2	1	1	2	1	1
Measles..... 055	11	6	5	8	4	4	3	2	1	3	2	1
Viral hepatitis..... 070	809	415	394	667	350	317	142	65	77	113	50	63
Syphilis..... 090-097	154	92	62	93	50	43	61	42	19	59	41	18
All other infectious and parasitic diseases..... 001-003, 005, 020-032, 037, 039-041, 046-054, 056-066, 071-088, 098-139	4,078	2,099	1,979	3,292	1,708	1,584	786	391	395	716	353	363
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	416,509	225,948	190,561	368,162	198,188	169,974	48,347	27,760	20,587	45,037	25,861	19,176
Malignant neoplasms of lip, oral cavity, and pharynx..... 140-149	8,553	5,899	2,654	7,181	4,827	2,354	1,372	1,072	300	1,287	1,005	282
Malignant neoplasms of digestive organs and peritoneum..... 150-159	110,647	57,947	52,700	96,873	50,227	46,646	13,774	7,720	6,054	12,567	6,978	5,589
Malignant neoplasms of respiratory and intrathoracic organs..... 160-165	108,504	79,150	29,354	96,153	69,720	26,433	12,351	9,430	2,921	11,618	8,904	2,714
Malignant neoplasm of breast..... 174-175	35,897	256	35,641	32,450	227	32,223	3,447	29	3,418	3,244	29	3,215
Malignant neoplasms of genital organs..... 179-187	46,430	23,647	22,783	39,490	19,784	19,706	6,940	3,863	3,077	6,626	3,742	2,884
Malignant neoplasms of urinary organs..... 188-189	17,828	11,692	6,136	16,377	10,848	5,529	1,451	844	607	1,349	772	577
Malignant neoplasms of all other and unspecified sites..... 170-173, 190-199	50,679	27,016	23,663	45,252	24,169	21,083	5,427	2,847	2,580	5,075	2,659	2,416
Leukemia..... 204-208	16,533	9,193	7,340	15,081	8,396	6,685	1,452	797	655	1,310	714	596
Other malignant neoplasms of lymphatic and hematopoietic tissues... 200-203	21,438	11,148	10,290	19,305	9,990	9,315	2,133	1,158	975	1,961	1,058	903
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature.... 210-239	6,193	2,879	3,314	5,383	2,514	2,869	810	365	445	749	339	410
Diabetes mellitus..... 250	34,851	14,325	20,526	28,868	12,125	16,743	5,983	2,200	3,783	5,544	2,010	3,534
Nutritional deficiencies..... 260-269	2,364	962	1,402	2,008	779	1,229	356	183	173	333	172	161
Anemias..... 280-285	3,238	1,421	1,817	2,550	1,085	1,465	688	336	352	660	321	339
Meningitis..... 320-322	1,415	796	619	1,020	577	443	395	219	176	369	203	166

Table 7. Deaths from 72 selected causes by race and sex: United States, 1980—Con.

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
Major cardiovascular diseases . . . 390–448	988,545	503,749	484,796	883,540	450,122	433,418	105,005	53,627	51,378	98,502	49,610	48,892
Diseases of heart . . . . . 390–398, 402, 404–429	761,085	405,661	355,424	683,347	364,679	318,668	77,738	40,982	36,756	72,956	37,877	35,079
Rheumatic fever and rheumatic heart disease . . . . . 390–398	7,836	2,660	5,176	7,203	2,424	4,779	633	236	397	556	206	350
Hypertensive heart disease . . . . 402	21,095	8,870	12,225	15,682	6,386	9,296	5,413	2,484	2,929	5,228	2,388	2,840
Hypertensive heart and renal disease . . . . . 404	3,711	1,492	2,219	2,909	1,175	1,734	802	317	485	777	305	472
Ischemic heart disease . . . 410–414	565,755	310,774	254,981	519,059	285,771	233,288	46,696	25,003	21,693	43,365	22,760	20,605
Acute myocardial infarction . . . 410	299,584	178,485	121,099	275,957	165,470	110,487	23,627	13,015	10,612	21,892	11,834	10,058
Other acute and subacute forms of ischemic heart disease . . . 411	4,773	2,975	1,798	4,048	2,522	1,526	725	453	272	685	420	265
Angina pectoris . . . . . 413	561	303	258	510	281	229	51	22	29	45	19	26
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . . 412, 414	260,837	129,011	131,826	238,544	117,498	121,046	22,293	11,513	10,780	20,743	10,487	10,256
Other diseases of endocardium . . . 424	7,164	3,693	3,471	6,499	3,334	3,165	665	359	306	591	315	276
All other forms of heart disease . . . . . 415–423, 425–429	155,524	78,172	77,352	131,995	65,589	66,406	23,529	12,583	10,946	22,439	11,903	10,536
Hypertension with or without renal disease . . . . . 401, 403	7,827	3,581	4,246	6,130	2,813	3,317	1,697	768	929	1,627	728	899
Cerebrovascular diseases . . . 430–438	170,225	69,973	100,252	148,734	60,095	88,639	21,491	9,878	11,613	20,135	9,194	10,941
Intracerebral and other intracranial hemorrhage . . . . . 431–432	20,772	9,427	11,345	17,165	7,584	9,581	3,607	1,843	1,764	3,315	1,684	1,631
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . . 434.0, 434.9	34,048	13,747	20,301	30,404	12,113	18,291	3,644	1,634	2,010	3,425	1,522	1,903
Cerebral embolism . . . . . 434.1	795	335	460	705	290	415	90	45	45	80	40	40
All other and late effects of cerebrovascular diseases . . . . . 430, 433, 435–438	114,610	46,464	68,146	100,460	40,108	60,352	14,150	6,356	7,794	13,315	5,948	7,367
Atherosclerosis . . . . . 440	29,449	11,601	17,848	27,069	10,543	16,526	2,380	1,058	1,322	2,252	990	1,262
Other diseases of arteries, arterioles, and capillaries . . . . . 441–448	19,959	12,933	7,026	18,260	11,992	6,268	1,699	941	758	1,532	821	711
Acute bronchitis and bronchiolitis . . 466	642	299	343	568	255	313	74	44	30	64	35	29
Pneumonia and influenza . . . . . 480–487	54,619	27,574	27,045	48,369	23,810	24,559	6,250	3,764	2,486	5,648	3,386	2,262
Pneumonia . . . . . 480–486	51,917	26,581	25,336	45,774	22,859	22,915	6,143	3,722	2,421	5,560	3,349	2,211
Influenza . . . . . 487	2,702	993	1,709	2,595	951	1,644	107	42	65	88	37	51
Chronic obstructive pulmonary diseases and allied conditions . . . . . 490–496	56,050	38,625	17,425	52,375	35,977	16,398	3,675	2,648	1,027	3,380	2,429	951
Bronchitis, chronic and unspecified . . . . . 490–491	3,728	2,380	1,348	3,513	2,231	1,282	215	149	66	195	136	59
Emphysema . . . . . 492	13,877	10,133	3,744	13,194	9,587	3,607	683	546	137	625	504	121
Asthma . . . . . 493	2,891	1,292	1,599	2,291	1,008	1,283	600	284	316	557	260	297
Other chronic obstructive pulmonary diseases and allied conditions . . . . . 494–496	35,554	24,820	10,734	33,377	23,151	10,226	2,177	1,669	508	2,003	1,529	474
Ulcer of stomach and duodenum . . . . . 531–533	6,115	3,405	2,710	5,543	3,036	2,507	572	369	203	511	331	180

Appendicitis . . . . .	540-543	701	383	318	566	308	258	135	75	60	130	72	58
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	550-553, 560	5,415	2,147	3,268	4,757	1,806	2,951	658	341	317	618	319	299
Chronic liver disease and cirrhosis . . .	571	30,583	19,768	10,815	25,240	16,407	8,833	5,343	3,361	1,982	4,790	3,020	1,770
Cholelithiasis and other disorders of gallbladder . . . . .	574-575	3,285	1,475	1,810	2,995	1,356	1,639	290	119	171	235	89	146
Nephritis, nephrotic syndrome, and nephrosis . . . . .	580-589	16,753	8,638	8,115	13,137	6,848	6,289	3,616	1,790	1,826	3,416	1,694	1,722
Acute glomerulonephritis and nephrotic syndrome . . . . .	580-581	328	162	166	270	131	139	58	31	27	55	28	27
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	582-583, 587	2,245	1,138	1,107	1,717	878	839	528	260	268	498	243	255
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584-586, 588-589	14,180	7,338	6,842	11,150	5,839	5,311	3,030	1,499	1,531	2,863	1,423	1,440
Infections of kidney . . . . .	590	2,732	960	1,772	2,365	813	1,552	367	147	220	350	138	212
Hyperplasia of prostate . . . . .	600	754	754	...	654	654	...	100	100	...	91	91	...
Complications of pregnancy, childbirth, and the puerperium . . . . .	630-676	334	...	334	193	...	193	141	...	141	127	...	127
Pregnancy with abortive outcome . . . . .	630-638	62	...	62	27	...	27	35	...	35	31	...	31
Other complications of pregnancy, childbirth, and the puerperium . . . . .	640-676	272	...	272	166	...	166	106	...	106	96	...	96
Congenital anomalies . . . . .	740-759	13,938	7,496	6,442	11,471	6,188	5,283	2,467	1,308	1,159	2,168	1,160	1,008
Certain conditions originating in the perinatal period . . . . .	760-779	22,866	13,051	9,815	15,457	8,945	6,512	7,409	4,106	3,303	6,961	3,869	3,092
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767-769	7,580	4,503	3,077	5,503	3,336	2,167	2,077	1,167	910	1,937	1,089	848
Other conditions originating in the perinatal period . . . . .	760-766, 770-779	15,286	8,548	6,738	9,954	5,609	4,345	5,332	2,939	2,393	5,024	2,780	2,244
Symptoms, signs, and ill-defined conditions . . . . .	780-799	28,808	16,465	12,343	20,902	11,992	8,910	7,906	4,473	3,433	7,461	4,214	3,247
All other diseases . . . . .	Residual	115,292	58,514	56,778	97,751	48,917	48,834	17,541	9,597	7,944	16,248	8,865	7,383
Accidents and adverse effects . . . . .	E800-E949	105,718	74,180	31,538	90,122	62,963	27,159	15,596	11,217	4,379	13,480	9,701	3,779
Motor vehicle accidents . . . . .	E810-E825	53,172	38,861	14,311	46,863	34,109	12,754	6,309	4,752	1,557	5,081	3,912	1,169
All other accidents and adverse effects . . . . .	E800-E807, E826-E949	52,546	35,319	17,227	43,259	28,854	14,405	9,287	6,465	2,822	8,399	5,789	2,610
Suicide . . . . .	E950-E959	26,869	20,505	6,364	24,829	18,901	5,928	2,040	1,604	436	1,607	1,297	310
Homicide and legal intervention . . . . .	E960-E978	24,278	19,088	5,190	13,558	10,381	3,177	10,720	8,707	2,013	10,283	8,385	1,898
All other external causes . . . . .	E980-E999	3,686	2,643	1,043	2,805	1,986	819	881	657	224	797	596	201

**Table 8. Death rates for 72 selected causes by race and sex: United States, 1980**

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
All causes	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
Shigellosis and amebiasis . . . . . 004, 006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections . . . . . 007-009	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.3
Tuberculosis . . . . . 010-018	0.9	1.2	0.6	0.6	0.9	0.4	2.3	3.2	1.5	2.4	3.5	1.5
Tuberculosis of respiratory system . . . . . 010-012	0.7	1.0	0.4	0.5	0.8	0.3	1.8	2.6	1.1	1.9	3.0	1.0
Other tuberculosis . . . . . 013-018	0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.6	0.4
Whooping cough . . . . . 033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
Streptococcal sore throat, scarlatina, and erysipelas . . . . . 034-035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-
Meningococcal infection . . . . . 036	0.2	0.2	0.2	0.2	0.2	0.1	0.3	0.3	0.2	0.3	0.3	0.2
Septicemia . . . . . 038	4.2	4.3	4.1	3.8	3.9	3.8	6.2	6.7	5.8	7.0	7.6	6.5
Acute poliomyelitis . . . . . 045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measles . . . . . 055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral hepatitis . . . . . 070	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.4
Syphilis . . . . . 090-097	0.1	0.1	0.1	0.0	0.1	0.0	0.2	0.3	0.1	0.2	0.3	0.1
All other infectious and parasitic diseases . . . . . 001-003, 005, 020-032, 037, 039-041, 046-054, 056-066, 071-088, 098-139	1.8	1.9	1.7	1.7	1.8	1.6	2.5	2.6	2.4	2.7	2.8	2.6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	183.9	205.3	163.6	189.0	208.7	170.3	152.3	184.1	123.6	169.1	205.5	136.5
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	3.8	5.4	2.3	3.7	5.1	2.4	4.3	7.1	1.8	4.8	8.0	2.0
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	48.8	52.7	45.2	49.7	52.9	46.7	43.4	51.2	36.3	47.2	55.4	39.8
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	47.9	71.9	25.2	49.4	73.4	26.5	38.9	62.5	17.5	43.6	70.8	19.3
Malignant neoplasm of breast . . . . . 174-175	15.8	0.2	30.6	16.7	0.2	32.3	10.9	0.2	20.5	12.2	0.2	22.9
Malignant neoplasms of genital organs . . . . . 179-187	20.5	21.5	19.6	20.3	20.8	19.7	21.9	25.6	18.5	24.9	29.7	20.5
Malignant neoplasms of urinary organs . . . . . 188-189	7.9	10.6	5.3	8.4	11.4	5.5	4.6	5.6	3.6	5.1	6.1	4.1
Malignant neoplasms of all other and unspecified sites . . . . . 170-173, 190-199	22.4	24.5	20.3	23.2	25.4	21.1	17.1	18.9	15.5	19.1	21.1	17.2
Leukemia . . . . . 204-208	7.3	8.4	6.3	7.7	8.8	6.7	4.6	5.3	3.9	4.9	5.7	4.2
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	9.5	10.1	8.8	9.9	10.5	9.3	6.7	7.7	5.9	7.4	8.4	6.4
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	2.7	2.6	2.8	2.8	2.6	2.9	2.6	2.4	2.7	2.8	2.7	2.9
Diabetes mellitus . . . . . 250	15.4	13.0	17.6	14.8	12.8	16.8	18.9	14.6	22.7	20.8	16.0	25.2
Nutritional deficiencies . . . . . 260-269	1.0	0.9	1.2	1.0	0.8	1.2	1.1	1.2	1.0	1.3	1.4	1.1
Anemias . . . . . 280-285	1.4	1.3	1.6	1.3	1.1	1.5	2.2	2.2	2.1	2.5	2.6	2.4
Meningitis . . . . . 320-322	0.6	0.7	0.5	0.5	0.6	0.4	1.2	1.5	1.1	1.4	1.6	1.2
Major cardiovascular diseases . . . . . 390-448	436.4	457.7	416.2	453.5	473.9	434.1	330.9	355.7	308.4	369.9	394.2	348.1
Diseases of heart . . . . . 390-398, 402, 404-429	336.0	368.6	305.1	350.8	384.0	319.2	245.0	271.8	220.7	274.0	301.0	249.7
Rheumatic fever and rheumatic heart disease . . . . . 390-398	3.5	2.4	4.4	3.7	2.6	4.8	2.0	1.6	2.4	2.1	1.6	2.5
Hypertensive heart disease . . . . . 402	9.3	8.1	10.5	8.0	6.7	9.3	17.1	16.5	17.6	19.6	19.0	20.2
Hypertensive heart and renal disease . . . . . 404	1.6	1.4	1.9	1.5	1.2	1.7	2.5	2.1	2.9	2.9	2.4	3.4
Ischemic heart disease . . . . . 410-414	249.7	282.4	218.9	266.4	300.9	233.7	147.1	165.8	130.2	162.8	180.9	146.7
Acute myocardial infarction . . . . . 410	132.2	162.2	104.0	141.7	174.2	110.7	74.5	86.3	63.7	82.2	94.0	71.6

Other acute and subacute forms of ischemic heart disease . . . . .	411	2.1	2.7	1.5	2.1	2.7	1.5	2.3	3.0	1.6	2.6	3.3	1.9
Angina pectoris . . . . .	413	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.2	0.2
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412, 414	115.1	117.2	113.2	122.4	123.7	121.2	70.2	76.4	64.7	77.9	83.3	73.0
Other diseases of endocardium . . . . .	424	3.2	3.4	3.0	3.3	3.5	3.2	2.1	2.4	1.8	2.2	2.5	2.0
All other forms of heart disease . . . . .	415–423, 425–429	68.7	71.0	66.4	67.8	69.1	66.5	74.1	83.5	65.7	84.3	94.6	75.0
Hypertension with or without renal disease . . . . .	401, 403	3.5	3.3	3.6	3.1	3.0	3.3	5.3	5.1	5.6	6.1	5.8	6.4
Cerebrovascular diseases . . . . .	430–438	75.1	63.6	86.1	76.3	63.3	88.8	67.7	65.5	69.7	75.6	73.1	77.9
Intracerebral and other intracranial hemorrhage . . . . .	431–432	9.2	8.6	9.7	8.8	8.0	9.6	11.4	12.2	10.6	12.4	13.4	11.6
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0, 434.9	15.0	12.5	17.4	15.6	12.8	18.3	11.5	10.8	12.1	12.9	12.1	13.5
Cerebral embolism . . . . .	434.1	0.4	0.3	0.4	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
All other and late effects of cerebrovascular diseases . . . . .	430, 433, 435–438	50.6	42.2	58.5	51.6	42.2	60.5	44.6	42.2	46.8	50.0	47.3	52.5
Atherosclerosis . . . . .	440	13.0	10.5	15.3	13.9	11.1	16.6	7.5	7.0	7.9	8.5	7.9	9.0
Other diseases of arteries, arterioles, and capillaries . . . . .	441–448	8.8	11.8	6.0	9.4	12.6	6.3	5.4	6.2	4.6	5.8	6.5	5.1
Acute bronchitis and bronchiolitis . . . . .	466	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2
Pneumonia and influenza . . . . .	480–487	24.1	25.1	23.2	24.8	25.1	24.6	19.7	25.0	14.9	21.2	26.9	16.1
Pneumonia . . . . .	480–486	22.9	24.2	21.7	23.5	24.1	23.0	19.4	24.7	14.5	20.9	26.6	15.7
Influenza . . . . .	487	1.2	0.9	1.5	1.3	1.0	1.6	0.3	0.3	0.4	0.3	0.3	0.4
Chronic obstructive pulmonary diseases and allied conditions . . . . .	490–496	24.7	35.1	15.0	26.9	37.9	16.4	11.6	17.6	6.2	12.7	19.3	6.8
Bronchitis, chronic and unspecified . . . . .	490–491	1.6	2.2	1.2	1.8	2.3	1.3	0.7	1.0	0.4	0.7	1.1	0.4
Emphysema . . . . .	492	6.1	9.2	3.2	6.8	10.1	3.6	2.2	3.6	0.8	2.3	4.0	0.9
Asthma . . . . .	493	1.3	1.2	1.4	1.2	1.1	1.3	1.9	1.9	1.9	2.1	2.1	2.1
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494–496	15.7	22.6	9.2	17.1	24.4	10.2	6.9	11.1	3.0	7.5	12.1	3.4
Ulcer of stomach and duodenum . . . . .	531–533	2.7	3.1	2.3	2.8	3.2	2.5	1.8	2.4	1.2	1.9	2.6	1.3
Appendicitis . . . . .	540–543	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.5	0.6	0.4
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	550–553, 560	2.4	2.0	2.8	2.4	1.9	3.0	2.1	2.3	1.9	2.3	2.5	2.1
Chronic liver disease and cirrhosis . . . . .	571	13.5	18.0	9.3	13.0	17.3	8.8	16.8	22.3	11.9	18.0	24.0	12.6
Cholelithiasis and other disorders of gallbladder . . . . .	574–575	1.5	1.3	1.6	1.5	1.4	1.6	0.9	0.8	1.0	0.9	0.7	1.0
Nephritis, nephrotic syndrome, and nephrosis . . . . .	580–589	7.4	7.8	7.0	6.7	7.2	6.3	11.4	11.9	11.0	12.8	13.5	12.3
Acute glomerulonephritis and nephrotic syndrome . . . . .	580–581	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	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	1.0	1.0	1.0	0.9	0.9	0.8	1.7	1.7	1.6	1.9	1.9	1.8
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584–586, 588–589	6.3	6.7	5.9	5.7	6.1	5.3	9.5	9.9	9.2	10.8	11.3	10.3
Infections of kidney . . . . .	590	1.2	0.9	1.5	1.2	0.9	1.6	1.2	1.0	1.3	1.3	1.1	1.5
Hyperplasia of prostate . . . . .	600	0.3	0.7	...	0.3	0.7	...	0.3	0.7	...	0.3	0.7	...
Complications of pregnancy, childbirth, and the puerperium . . . . .	630–676	0.1	...	0.3	0.1	...	0.2	0.4	...	0.8	0.5	...	0.9
Pregnancy with abortive outcome . . . . .	630–638	0.0	...	0.1	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	...	0.2	0.3	...	0.6	0.4	...	0.7
Congenital anomalies . . . . .	740–759	6.2	6.8	5.5	5.9	6.5	5.3	7.8	8.7	7.0	8.1	9.2	7.2
Certain conditions originating in the perinatal period . . . . .	760–779	10.1	11.9	8.4	7.9	9.4	6.5	23.3	27.2	19.8	26.1	30.7	22.0
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767–769	3.3	4.1	2.6	2.8	3.5	2.2	6.5	7.7	5.5	7.3	8.7	6.0
Other conditions originating in the perinatal period . . . . .	760–766, 770–779	6.7	7.8	5.8	5.1	5.9	4.4	16.8	19.5	14.4	18.9	22.1	16.0
Symptoms, signs, and ill-defined conditions . . . . .	780–799	12.7	15.0	10.6	10.7	12.6	8.9	24.9	29.7	20.6	28.0	33.5	23.1
All other diseases . . . . .	Residual	50.9	53.2	48.7	50.2	51.5	48.9	55.3	63.7	47.7	61.0	70.4	52.6

Table 8. Death rates for 72 selected causes by race and sex: United States, 1980—Con.

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
							Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Accidents and adverse effects . . . . . E800–E949	46.7	67.4	27.1	46.3	66.3	27.2	49.1	74.4	26.3	50.6	77.1	26.9
Motor vehicle accidents . . . . . E810–E825	23.5	35.3	12.3	24.1	35.9	12.8	19.9	31.5	9.3	19.1	31.1	8.3
All other accidents and adverse effects . . . . . E800–E807, E826–E949	23.2	32.1	14.8	22.2	30.4	14.4	29.3	42.9	16.9	31.5	46.0	18.6
Suicide . . . . . E950–E959	11.9	18.6	5.5	12.7	19.9	5.9	6.4	10.6	2.6	6.0	10.3	2.2
Homicide and legal intervention . . . . . E960–E978	10.7	17.3	4.5	7.0	10.9	3.2	33.8	57.8	12.1	38.6	66.6	13.5
All other external causes . . . . . E980–E999	1.6	2.4	0.9	1.4	2.1	0.8	2.8	4.4	1.3	3.0	4.7	1.4

**Table 9. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1980**

[Rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other					
	Both sexes	Male	Female	Both sexes	Male	Female	Total			Black		
							Both sexes	Male	Female	Both sexes	Male	Female
All causes.....	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
Shigellosis and amebiasis..... 004, 006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	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	0.2	0.2	0.2	0.2	0.2
Tuberculosis..... 010-018	0.6	1.0	0.4	0.4	0.7	0.2	2.4	3.7	1.5	2.6	4.1	1.4
Tuberculosis of respiratory system..... 010-012	0.5	0.9	0.3	0.4	0.6	0.2	1.9	3.1	1.0	2.1	3.5	1.0
Other tuberculosis..... 013-018	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.6	0.5	0.5	0.6	0.5
Whooping cough..... 033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
Streptococcal sore throat, scarlatina, and erysipelas... 034-035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-
Meningococcal infection..... 036	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2
Septicemia..... 038	2.6	3.2	2.2	2.3	2.8	1.8	5.9	7.2	4.9	6.5	8.0	5.4
Acute poliomyelitis..... 045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measles..... 055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Viral hepatitis..... 070	0.3	0.4	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
Syphilis..... 090-097	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.2	0.3	0.1
All other infectious and parasitic diseases..... 001-003, 005, 020-032, 037, 039-041, 046-054, 056-066, 071-088, 098-139	1.4	1.7	1.2	1.3	1.5	1.0	2.6	2.9	2.4	2.8	3.1	2.6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues..... 140-208	132.8	165.5	109.2	129.6	160.5	107.7	158.2	209.0	120.2	172.1	229.9	129.7
Malignant neoplasms of lip, oral cavity, and pharynx..... 140-149	2.9	4.6	1.5	2.6	4.1	1.5	4.9	8.7	1.9	5.5	9.8	2.1
Malignant neoplasms of digestive organs and peritoneum..... 150-159	33.0	41.7	26.3	31.6	39.8	25.4	44.1	58.2	33.4	46.9	62.1	35.4
Malignant neoplasms of respiratory and intrathoracic organs..... 160-165	36.4	59.7	18.3	35.6	58.0	18.2	42.2	73.5	18.0	46.5	82.0	19.5
Malignant neoplasm of breast..... 174-175	12.5	0.2	22.7	12.5	0.2	22.8	12.0	0.2	21.3	13.2	0.3	23.3
Malignant neoplasms of genital organs..... 179-187	13.6	15.0	13.7	12.8	13.8	13.1	21.2	26.2	18.3	23.4	29.7	19.9
Malignant neoplasms of urinary organs..... 188-189	5.2	8.2	3.1	5.3	8.4	3.1	4.5	6.3	3.2	4.9	6.8	3.5
Malignant neoplasms of all other and unspecified sites..... 170-173, 190-199	16.9	20.8	13.7	16.8	20.7	13.6	17.8	21.6	14.9	19.5	23.9	16.1
Leukemia..... 204-208	5.4	6.9	4.2	5.5	7.0	4.3	4.6	5.7	3.8	4.8	6.0	4.0
Other malignant neoplasms of lymphatic and hematopoietic tissues..... 200-203	6.9	8.4	5.7	6.9	8.4	5.7	6.9	8.7	5.5	7.4	9.4	5.9
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature..... 210-239	2.0	2.1	1.9	1.9	2.1	1.8	2.6	2.7	2.6	2.8	3.0	2.7
Diabetes mellitus..... 250	10.1	10.2	10.0	9.1	9.5	8.7	18.8	16.4	20.6	20.3	17.7	22.1
Nutritional deficiencies..... 260-269	0.5	0.6	0.5	0.5	0.5	0.4	0.9	1.2	0.7	1.0	1.3	0.8
Anemias..... 280-285	0.9	1.0	0.9	0.7	0.8	0.7	2.1	2.3	2.0	2.4	2.6	2.2
Meningitis..... 320-322	0.6	0.7	0.5	0.5	0.6	0.4	1.1	1.4	0.9	1.3	1.5	1.1
Major cardiovascular diseases..... 390-448	256.0	343.0	187.9	248.4	336.9	179.1	313.5	389.5	254.6	342.0	425.7	278.3
Diseases of heart..... 390-398, 402, 404-429	202.0	280.4	140.3	197.6	277.5	134.6	234.2	299.6	183.5	255.7	327.3	201.1
Rheumatic fever and rheumatic heart disease... 390-398	2.6	2.1	3.0	2.6	2.1	3.0	2.1	1.8	2.5	2.3	1.9	2.5
Hypertensive heart disease..... 402	5.9	6.4	5.3	4.5	5.0	4.1	17.3	19.1	15.7	19.5	21.8	17.5
Hypertensive heart and renal disease..... 404	0.9	0.9	0.8	0.7	0.8	0.6	2.4	2.2	2.5	2.7	2.6	2.8
Ischemic heart disease..... 410-414	149.8	214.8	98.8	150.6	218.0	97.4	139.6	182.4	106.6	150.5	196.0	116.1
Acute myocardial infarction..... 410	85.9	128.2	52.5	87.2	131.5	52.0	73.2	96.9	54.9	78.9	104.1	59.7

**Table 9. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1980—Con.**

[Rates per 100,000 population in specified group. Computed by the direct method, using as the standard population the age distribution of the total population of the United States as enumerated in 1940]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races			White			All other						
							Total			Black			
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
Major cardiovascular diseases—Con.													
Diseases of heart—Con.													
Ischemic heart disease—Con.													
Other acute and subacute forms of ischemic heart disease . . . . .	411	1.4	2.2	0.8	1.3	2.1	0.7	2.4	3.5	1.5	2.6	3.9	1.6
Angina pectoris . . . . .	413	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.1
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412, 414	62.3	84.2	45.4	61.9	84.3	44.7	63.9	81.8	50.1	68.8	87.9	54.5
Other diseases of endocardium . . . . .	424	2.0	2.6	1.5	1.9	2.6	1.5	2.1	2.6	1.6	2.1	2.8	1.6
All other forms of heart disease . . . . .	415–423, 425–429	40.8	53.5	30.9	37.2	49.1	27.9	70.7	91.4	54.7	78.6	102.3	60.5
Hypertension with or without renal disease . . . . .	401, 403	2.0	2.4	1.8	1.6	2.0	1.4	5.3	5.7	5.0	5.9	6.4	5.6
Cerebrovascular diseases . . . . .	430–438	40.8	44.9	37.6	38.0	41.9	35.2	62.9	70.5	57.0	68.5	77.5	61.7
Intracerebral and other intracranial hemorrhage . . . . .	431–432	6.2	6.9	5.7	5.5	6.0	5.1	12.0	14.3	10.2	13.1	15.7	11.0
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0, 434.9	7.6	8.5	6.9	7.3	8.1	6.6	10.1	11.3	9.2	11.0	12.4	10.0
Cerebral embolism . . . . .	434.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.4	0.2
All other and late effects of cerebrovascular diseases . . . . .	430, 433, 435–438	26.7	29.3	24.9	25.1	27.5	23.4	40.4	44.5	37.4	44.1	49.0	40.5
Atherosclerosis . . . . .	440	5.7	6.6	5.0	5.6	6.5	5.0	5.9	6.8	5.2	6.4	7.5	5.6
Other diseases of arteries, arterioles, and capillaries . . . . .	441–448	5.5	8.8	3.1	5.5	9.0	3.0	5.2	6.8	3.9	5.4	7.0	4.3
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	12.9	17.4	9.8	12.2	16.2	9.4	18.0	26.1	11.9	19.2	28.0	12.7
Pneumonia . . . . .	480–486	12.4	16.8	9.3	11.6	15.6	8.8	17.7	25.8	11.7	19.0	27.7	12.4
Influenza . . . . .	487	0.5	0.6	0.5	0.6	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.2
Chronic obstructive pulmonary diseases and allied conditions . . . . .	490–496	15.9	26.1	8.9	16.3	26.7	9.2	11.5	19.2	5.8	12.5	20.9	6.3
Bronchitis, chronic and unspecified . . . . .	490–491	1.0	1.6	0.6	1.0	1.7	0.7	0.7	1.0	0.4	0.7	1.2	0.4
Emphysema . . . . .	492	4.0	6.9	1.9	4.2	7.2	2.1	2.2	4.0	0.8	2.3	4.4	0.8
Asthma . . . . .	493	1.0	1.0	1.0	0.8	0.8	0.8	2.0	2.1	1.9	2.2	2.2	2.2
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494–496	9.9	16.6	5.3	10.3	17.1	5.6	6.7	12.1	2.8	7.3	13.1	3.0
Ulcer of stomach and duodenum . . . . .	531–533	1.7	2.4	1.2	1.7	2.3	1.2	1.8	2.8	1.0	1.9	3.0	1.1
Appendicitis . . . . .	540–543	0.2	0.3	0.2	0.2	0.3	0.2	0.4	0.5	0.4	0.5	0.6	0.4
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	550–553, 560	1.4	1.4	1.3	1.3	1.3	1.3	1.9	2.3	1.6	2.1	2.6	1.8
Chronic liver disease and cirrhosis . . . . .	571	12.2	17.1	7.9	11.0	15.7	7.0	20.0	28.1	13.5	21.6	30.6	14.4
Cholelithiasis and other disorders of gallbladder . . . . .	574–575	0.8	1.0	0.7	0.8	0.9	0.7	0.9	0.9	0.9	0.8	0.8	0.9
Nephritis, nephrotic syndrome, and nephrosis . . . . .	580–589	4.5	5.7	3.6	3.7	4.9	2.9	10.8	12.7	9.5	11.9	14.2	10.3
Acute glomerulonephritis and nephrotic syndrome . . . . .	580–581	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.2
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	582–583, 587	0.6	0.8	0.5	0.5	0.6	0.4	1.6	1.8	1.4	1.7	2.0	1.5



Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause. . . . .	584-586, 588-589	3.8	4.8	3.1	3.2	4.2	2.4	9.1	10.6	8.0	10.0	11.9	8.6
Infections of kidney. . . . .	590	0.7	0.6	0.7	0.6	0.5	0.7	1.1	1.0	1.1	1.2	1.1	1.2
Hyperplasia of prostate. . . . .	600	0.2	0.4	...	0.1	0.4	...	0.3	0.6	...	0.3	0.7	...
Complications of pregnancy, childbirth, and the puerperium. . . . .	630-676	0.1	...	0.3	0.1	...	0.2	0.4	...	0.9	0.5	...	0.9
Pregnancy with abortive outcome. . . . .	630-638	0.0	...	0.1	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	...	0.2	0.3	...	0.6	0.4	...	0.7
Congenital anomalies. . . . .	740-759	6.0	6.5	5.6	5.9	6.4	5.5	6.4	6.9	6.0	6.7	7.3	6.2
Certain conditions originating in the perinatal period. . . . .	760-779	9.9	11.1	8.7	8.2	9.2	7.1	17.9	19.7	16.1	20.0	22.1	17.8
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome. . . . .	767-769	3.3	3.8	2.7	2.9	3.4	2.4	5.0	5.6	4.4	5.6	6.2	4.9
Other conditions originating in the perinatal period. . . . .	760-766, 770-779	6.6	7.3	6.0	5.3	5.8	4.7	12.9	14.1	11.6	14.4	15.9	13.0
Symptoms, signs, and ill-defined conditions. . . . .	780-799	9.8	12.7	7.3	8.0	10.5	5.8	23.0	29.8	17.4	25.5	33.6	19.2
All other diseases. . . . .	Residual	34.9	42.9	28.6	32.0	39.2	26.3	55.9	70.9	44.0	61.2	78.4	47.9
Accidents and adverse effects. . . . .	E800-E949	42.3	64.0	21.8	41.5	62.3	21.4	49.5	78.4	24.8	51.2	82.0	25.1
Motor vehicle accidents. . . . .	E810-E825	22.9	34.3	11.8	23.4	34.8	12.3	20.3	32.9	9.4	19.7	32.9	8.4
All other accidents and adverse effects. . . . .	E800-E807, E826-E949	19.5	29.6	10.0	18.0	27.4	9.1	29.3	45.5	15.4	31.5	49.1	16.7
Suicide. . . . .	E950-E959	11.4	18.0	5.4	12.1	18.9	5.7	6.7	11.3	2.8	6.4	11.1	2.4
Homicide and legal intervention. . . . .	E960-E978	10.8	17.4	4.5	6.9	10.9	3.2	35.0	61.3	12.2	40.6	71.9	13.7
All other external causes. . . . .	E980-E999	1.6	2.3	0.9	1.4	2.0	0.8	2.9	4.8	1.4	3.2	5.2	1.5

Table 10. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1980

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

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races	White	All other		All races	White	All other	
			Total	Black			Total	Black
	Number				Rate			
All causes	45,526	31,880	13,646	12,603	1,260.3	1,099.8	1,912.5	2,137.5
Certain intestinal infections. . . . . 008-009	112	63	49	47	3.1	2.2	6.9	8.0
Whooping cough. . . . . 033	10	7	3	3	0.3	0.2	0.4	0.5
Meningococcal infection . . . . . 036	77	60	17	14	2.1	2.1	2.4	2.4
Septicemia. . . . . 038	242	147	95	81	6.7	5.1	13.3	13.7
Viral diseases . . . . . 045-079	136	102	34	32	3.8	3.5	4.8	5.4
Congenital syphilis . . . . . 090	2	1	1	1	0.1	0.0	0.1	0.2
Remainder of infectious and parasitic diseases. . . . . 001-007, 010-032, 034-035, 037, 039-041, 080-088, 091-139	117	78	39	33	3.2	2.7	5.5	5.6
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues. . . . . 140-208	113	90	23	20	3.1	3.1	3.2	3.4
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	67	53	14	12	1.9	1.8	2.0	2.0
Diseases of thymus gland. . . . . 254	8	6	2	2	0.2	0.2	0.3	0.3
Cystic fibrosis. . . . . 277.0	40	38	2	2	1.1	1.3	0.3	0.3
Diseases of blood and blood-forming organs . . . . . 280-289	97	59	38	35	2.7	2.0	5.3	5.9
Meningitis. . . . . 320-322	443	294	149	138	12.3	10.1	20.9	23.4
Other diseases of nervous system and sense organs . . . . . 323-389	536	397	139	128	14.8	13.7	19.5	21.7
Acute upper respiratory infections . . . . . 460-465	78	43	35	32	2.2	1.5	4.9	5.4
Bronchitis and bronchiolitis . . . . . 466, 490-491	129	91	38	35	3.6	3.1	5.3	5.9
Pneumonia and influenza . . . . . 480-487	1,012	593	419	391	28.0	20.5	58.7	66.3
Pneumonia . . . . . 480-486	1,000	586	414	386	27.7	20.2	58.0	65.5
Influenza . . . . . 487	12	7	5	5	0.3	0.2	0.7	0.8
Remainder of diseases of respiratory system. . . . . 470-478, 492-519	507	340	167	160	14.0	11.7	23.4	27.1
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . . 550-553, 560	131	93	38	30	3.6	3.2	5.3	5.1
Gastritis, duodenitis, and noninfective enteritis and colitis . . . . . 535, 555-558	184	95	89	79	5.1	3.3	12.5	13.4
Remainder of diseases of digestive system. . . . . 520-534, 536-543, 562-579	251	170	81	75	6.9	5.9	11.4	12.7
Congenital anomalies . . . . . 740-759	9,220	7,442	1,778	1,544	255.2	256.7	249.2	261.9
Anencephalus and similar anomalies. . . . . 740	791	701	90	76	21.9	24.2	12.6	12.9
Spina bifida . . . . . 741	257	229	28	25	7.1	7.9	3.9	4.2
Congenital hydrocephalus. . . . . 742.3	325	248	77	68	9.0	8.6	10.8	11.5
Other congenital anomalies of central nervous system and eye . . . . . 742.0-742.2, 742.4-742.9, 743	316	230	86	74	8.7	7.9	12.1	12.6
Congenital anomalies of heart. . . . . 745-746	2,874	2,329	545	465	79.6	80.3	76.4	78.9
Other congenital anomalies of circulatory system . . . . . 747	937	709	228	203	25.9	24.5	32.0	34.4
Congenital anomalies of respiratory system . . . . . 748	641	489	152	136	17.7	16.9	21.3	23.1
Congenital anomalies of digestive system . . . . . 749-751	287	219	68	60	7.9	7.6	9.5	10.2
Congenital anomalies of genitourinary system . . . . . 752-753	452	383	69	64	12.5	13.2	9.7	10.9
Congenital anomalies of musculoskeletal system. . . . . 754-756	641	535	106	91	17.7	18.5	14.9	15.4
Down's syndrome. . . . . 758.0	123	96	27	24	3.4	3.3	3.8	4.1
Other chromosomal anomalies . . . . . 758.1-758.9	531	432	99	83	14.7	14.9	13.9	14.1
All other and unspecified congenital anomalies. . . . . 744, 757, 759	1,045	842	203	175	28.9	29.0	28.5	29.7
Certain conditions originating in the perinatal period . . . . . 760-779	22,745	15,367	7,378	6,933	629.7	530.1	1,034.0	1,175.9
Newborn affected by maternal conditions which may be unrelated to present pregnancy . . . . . 760	142	99	43	35	3.9	3.4	6.0	5.9
Newborn affected by maternal complications of pregnancy . . . . . 761	1,572	1,056	516	481	43.5	36.4	72.3	81.6
Newborn affected by complications of placenta, cord, and membranes . . . . . 762	985	730	255	239	27.3	25.2	35.7	40.5
Newborn affected by other complications of labor and delivery . . . . . 763	142	111	31	26	3.9	3.8	4.3	4.4
Slow fetal growth and fetal malnutrition . . . . . 764	49	33	16	16	1.4	1.1	2.2	2.7
Disorders relating to short gestation and unspecified low birthweight. . . . . 765	3,648	2,166	1,482	1,404	101.0	74.7	207.7	238.1



Table 12. Total deaths and death rates, and infant and neonatal deaths and mortality rates for the United States, each region, division, and State; and by race and sex for the United States: 1980

Race, sex, and area	Total deaths		Infant deaths (under 1 year)		Neonatal deaths (under 28 days)	
	Number	Rate <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
United States . . . . .	1,989,841	878.3	45,526	12.6	30,618	8.5
Male . . . . .	1,075,078	976.9	25,804	13.9	17,252	9.3
Female . . . . .	914,763	785.3	19,722	11.2	13,366	7.6
White . . . . .	1,738,607	892.5	31,880	11.0	21,686	7.5
Male . . . . .	933,878	983.3	18,290	12.3	12,355	8.3
Female . . . . .	804,729	806.1	13,590	9.6	9,331	6.6
All other . . . . .	251,234	791.7	13,646	19.1	8,932	12.5
Male . . . . .	141,200	936.5	7,514	20.7	4,897	13.5
Female . . . . .	110,034	660.6	6,132	17.5	4,035	11.5
Black . . . . .	233,135	875.4	12,603	21.4	8,303	14.1
Male . . . . .	130,138	1,034.1	6,958	23.3	4,582	15.3
Female . . . . .	102,997	733.3	5,645	19.4	3,721	12.8
Regions						
Northeast . . . . .	480,089	977.1	8,012	12.2	5,684	8.7
North Central . . . . .	523,532	889.4	11,905	12.5	7,962	8.3
South . . . . .	659,014	874.3	17,032	13.8	11,500	9.3
West . . . . .	327,206	757.9	8,577	11.2	5,472	7.1
Northeast						
New England . . . . .	114,699	928.9	1,702	10.5	1,224	7.6
Maine . . . . .	10,800	960.3	152	9.2	96	5.8
New Hampshire . . . . .	7,647	830.6	136	9.9	103	7.5
Vermont . . . . .	4,582	895.9	84	10.7	47	6.0
Massachusetts . . . . .	55,070	959.9	763	10.5	561	7.7
Rhode Island . . . . .	9,325	984.5	134	11.0	103	8.5
Connecticut . . . . .	27,275	877.7	433	11.2	314	8.1
Middle Atlantic . . . . .	365,390	993.3	6,310	12.8	4,460	9.0
New York . . . . .	172,853	984.5	2,994	12.5	2,090	8.7
New Jersey . . . . .	68,943	936.1	1,215	12.5	836	8.6
Pennsylvania . . . . .	123,594	1,041.8	2,101	13.2	1,534	9.7
North Central						
East North Central . . . . .	364,726	875.0	8,654	13.0	5,868	8.8
Ohio . . . . .	98,421	911.5	2,160	12.8	1,472	8.7
Indiana . . . . .	47,345	862.4	1,050	11.9	700	7.9
Illinois . . . . .	102,935	900.8	2,812	14.8	1,899	10.0
Michigan . . . . .	75,187	811.8	1,862	12.8	1,293	8.9
Wisconsin . . . . .	40,838	867.8	770	10.3	504	6.7
West North Central . . . . .	158,806	924.2	3,251	11.3	2,094	7.3
Minnesota . . . . .	33,366	818.6	678	10.0	419	6.2
Iowa . . . . .	27,120	930.7	565	11.8	378	7.9
Missouri . . . . .	49,660	1,010.0	980	12.4	646	8.2
North Dakota . . . . .	5,596	857.3	145	12.1	92	7.7
South Dakota . . . . .	6,556	949.1	145	10.9	76	5.7
Nebraska . . . . .	14,474	922.0	314	11.5	206	7.5
Kansas . . . . .	22,034	932.2	424	10.4	277	6.8
South						
South Atlantic . . . . .	330,437	894.1	7,916	14.5	5,459	10.0
Delaware . . . . .	5,044	848.7	131	13.9	94	10.0
Maryland . . . . .	34,016	806.6	842	14.0	614	10.2
District of Columbia . . . . .	7,108	1,113.5	234	25.0	171	18.3
Virginia . . . . .	42,506	795.0	1,067	13.6	770	9.8
West Virginia . . . . .	19,237	986.7	348	11.8	237	8.0
North Carolina . . . . .	48,440	823.6	1,224	14.5	843	10.0
South Carolina . . . . .	25,154	805.7	812	15.6	564	10.9
Georgia . . . . .	44,262	810.2	1,337	14.5	878	9.5
Florida . . . . .	104,670	1,073.9	1,921	14.6	1,288	9.8
East South Central . . . . .	133,768	912.1	3,477	14.5	2,272	9.5
Kentucky . . . . .	33,796	923.2	766	12.9	491	8.2
Tennessee . . . . .	40,774	888.1	935	13.5	631	9.1

See footnotes at end of table.

Table 12. Total deaths and death rates, and infant and neonatal deaths and mortality rates for the United States, each region, division, and State; and by race and sex for the United States: 1980—Con.

Race, sex, and area	Total deaths		Infant deaths (under 1 year)		Neonatal deaths (under 28 days)	
	Number	Rate <sup>1</sup>	Number	Rate <sup>2</sup>	Number	Rate <sup>2</sup>
South—Con.						
East South Central—Con.						
Alabama .....	35,542	912.8	962	15.1	626	9.9
Mississippi .....	23,656	938.5	814	17.0	524	11.0
West South Central .....						
Arkansas .....	22,744	994.7	472	12.7	284	7.6
Louisiana .....	35,651	847.6	1,178	14.3	820	10.0
Oklahoma .....	28,234	933.3	663	12.7	424	8.1
Texas .....	108,180	760.3	3,326	12.2	2,241	8.2
West						
Mountain .....						
Montana .....	6,666	847.3	176	12.4	110	7.7
Idaho .....	6,763	716.5	216	10.7	125	6.2
Wyoming .....	3,221	686.0	103	9.8	66	6.2
Colorado .....	18,956	655.9	501	10.1	330	6.6
New Mexico .....	9,093	697.9	301	11.5	190	7.3
Arizona .....	21,367	786.1	620	12.4	417	8.3
Utah .....	8,120	555.8	436	10.4	277	6.6
Nevada .....	5,896	736.5	143	10.7	89	6.7
Pacific .....						
Washington .....	32,007	774.6	798	11.8	478	7.0
Oregon .....	21,798	827.8	525	12.2	303	7.0
California .....	186,624	788.5	4,454	11.1	2,895	7.2
Alaska .....	1,714	426.5	117	12.3	62	6.5
Hawaii .....	4,981	516.3	187	10.3	130	7.2

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

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

### Symbols

- - - Data not available
- ... Category not applicable
- Quantity zero
- 0.0 Quantity more than 0 but less than 0.05
- \* Figure does not meet standard of reliability or precision

## Technical notes

### Nature and sources of data

Except for 1972, data shown in this report are based on information from all death certificates from the 50 States and the District of Columbia. For 1972, data are from a 50-percent sample of deaths.

Mortality statistics are based on information obtained directly from copies of the original certificates received from the State registration offices, and from data provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program. In 1980, 45 States participated in this program. For these States part or all of the mortality data for 1980 were coded from the original certificates and provided on computer tape to NCHS. The following 15 States submitted all mortality data, including cause of death, precoded on computer tape: Colorado, Iowa, Kansas, Louisiana, Massachusetts, Michigan, Minnesota, Mississippi, Nebraska, New Hampshire, North Carolina, Pennsylvania, South Carolina, Virginia, and Wisconsin. The remaining 30 States in the Vital Statistics Cooperative Program submitted computer tapes with precoded demographic or nonmedical data along with copies of the original certificates from which NCHS coded cause of death. These States included Alabama, Alaska, Arkansas, Connecticut, Florida, Hawaii, Idaho, Illinois, Indiana, Kentucky, Maine, Maryland, Missouri, Montana, Nevada, New Jersey, New Mexico, New York, Ohio, Oklahoma, Oregon, Rhode Island, South Dakota, Tennessee, Texas, Utah, Vermont, Washington, West Virginia, and Wyoming. For the balance of States, which were not participants in the Vital Statistics Cooperative Program in 1980, NCHS coded both the demographic and medical data directly from copies of the original death certificates.

Data for the United States as a whole refer to events occurring within the United States. Beginning with 1970, mortality statistics exclude deaths of nonresidents of the United States except in a few tables in which it is specified they are included. All data exclude fetal deaths.

### Cause-of-death classification

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

Causes of death for 1979–80 were classified according to the Ninth Revision International Classification of Diseases.<sup>2</sup> 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.<sup>3,4,5</sup>

Besides specifying the classification, the World Health Organization regulations outline the form of medical certification and the coding procedures to be used. In general, when more than one cause of death is reported, the cause designated by the certifying physician as the underlying cause of death is the cause tabulated.

Cause-of-death data presented in this publication were coded by procedures outlined in issues of Part 2a of the *NCHS Instruction Manual*.<sup>6</sup>

### 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. The population estimates for 1980 are based on the April 1, 1980 census enumeration. The figures by race in the 1980 census are affected by changes in the practice of reporting race, particularly on the part of the Hispanic population, and in coding and classifying racial groups in the 1980 census. One particular change has created a major inconsistency between the 1980 census data and historical data series. About 40 percent of the Hispanic population counted in 1980, or over 5.8 million persons, did not mark one of the specified races listed on the census questionnaire, but marked the "other" category instead. In the 1980 census a modification was made in the coding procedures in the treatment of persons who marked "other" race and wrote in a national origin designation of a Latin American country or a specific Hispanic origin group in response to the race question. These persons remained in the "other races" category in 1980 census data. In previous censuses and in vital statistics, such responses were almost always coded to the "white" category. To maintain comparability, the 1980 census data by race have been redistributed to conform to the historical categories. Unpublished tabulations of these modified census counts were obtained from the U.S. Bureau of the Census and were used for the computation of the rates for this report.

In obtaining the modified census counts, persons who marked the "other" race category and who reported any Spanish origin on the Spanish origin question (5.8 million persons) were distributed to white and black races in proportion to the distribution of persons of Hispanic origin who reported their race to be white or black. This procedure was done for each age-sex group. As a result, 5.7 million persons were added to the white population, and about 135,000 persons were added to the black population. Persons who marked the "other"

NOTE: A list of references follows the text.

race category and who reported that they were not of Spanish origin (about 916,000 persons) were distributed as follows: 20 percent in each age-sex group were added to the category "Asian and Pacific Islander," and 80 percent were added to the "white" category.<sup>7</sup> The count of American Indians, Eskimos, and Aleuts was not affected by these procedures.

Rates for 1971-79 have been revised, based on revised populations for those years that are consistent with the 1980 census levels.<sup>7</sup> The 1980 census enumerated approximately 5.5 million persons more than were previously estimated for April 1, 1980.<sup>8</sup>

All rates shown here for 1971-79 are not comparable with those published in the advance report of final mortality statistics for 1979,<sup>9</sup> with those to be published in *Vital Statistics of the United States*, Volume II, Mortality for 1979, and with those published in volumes for earlier years. Infant mortality rates and maternal mortality rates are based on numbers of live births.

### Cause-of-death ranking

The cause-of-death rankings shown in tables B and C are based on the List of 72 Selected Causes of Death, and the

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NOTE: A list of references follows the text.

cause-of-death ranking for infants in table 3 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; and 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" or "All other" are not ranked to determine the leading causes of death. When one of the titles that represent a subtotal is ranked (e.g., 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 rates for a given cause of death to the standard population distributed by age. The total population as enumerated in 1940 was selected as the standard. The rates for the total population and for each race-sex group were adjusted separately, by using the same standard population. The age-adjusted rates were based on 10-year age groups. It is important not to compare age-adjusted death rates with crude rates.

This report presents summary tabulations from the final mortality statistics for 1980. More detailed tabulations for 1980 will be published in *Vital Statistics of the United States*, 1980, Volume II-Mortality. Prior to the publication of that volume, the National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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