

# ncchs MONTHLY VITAL STATISTICS REPORT

Final Data from the National Center for Health Statistics

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## Advance Report of Final Mortality Statistics, 1981

### Highlights

In 1981 a total of 1,977,981 deaths were registered in the United States, 11,860 fewer than in the previous year. The death rate for 1981 was 862.4 deaths per 100,000 population, down from the 1980 rate of 878.3 but still above the record low of 852.2 set in 1979. In contrast, the age-adjusted death rate reached an all-time low in 1981, surpassing the previous record low set in 1979. In 1981, life expectancy resumed its upward trend and reached a new high of 74.2 years, up from 73.7 years in 1980 and 73.9 years in 1979. The data also show that males and females shared equally in the increase of life expectancy from the previous year, so that women would still be expected to outlive men by an average of 7.5 years. While improvements were greater for the black than for the white population, life expectancy at birth in 1981 was 6.1 years higher for the white population.

The first four of the 15 leading causes of death—Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues (cancer); Cerebrovascular diseases (stroke); and Accidents and adverse effects—continued to account for almost three out of four deaths in the United States. The age-adjusted death rates for each of these four causes declined between 1980 and 1981. Three leading causes showed an increase in the age-adjusted death rates between 1980 and 1981—Chronic obstructive pulmonary diseases and allied conditions, Suicide, and Septicemia.

As in previous years, males experienced higher mortality than did females for each of the 15 leading causes of death. The greatest sex difference in mortality was for Homicide and legal intervention; the smallest for Diabetes mellitus. The black population had higher rates than the white population for most leading causes. The three exceptions to this general race differential included the age-adjusted rates for Chronic obstructive pulmonary diseases and allied conditions and Suicide, and the infant mortality rate for Congenital

anomalies, with rates of the black population being lower than those of the white population. The greatest race difference in mortality was for Homicide and legal intervention, for which the age-adjusted rate was higher for the black than for the white population.

Infant mortality was at a record low in 1981, but rates for the black population continued to be about twice those for the white population.

### Deaths and death rates

In 1981 there were 1,977,981 deaths recorded in the United States, 11,860 fewer than in 1980. Although the death rate decreased in 1981 to 862.4 deaths per 100,000 population, compared with 878.3 in 1980, it did not fall below the record low level of 852.2 deaths per 100,000 set in 1979. Provisional data indicate that the death rate continued its decline through 1982.

The age-adjusted death rate decreased to 568.2 in 1981, down from 585.8 deaths per 100,000 population in 1980. The decrease in 1981 continues the long-term downward trend in mortality in the United States, bringing the age-adjusted rate to a record low (figure 1). Age-adjusted death

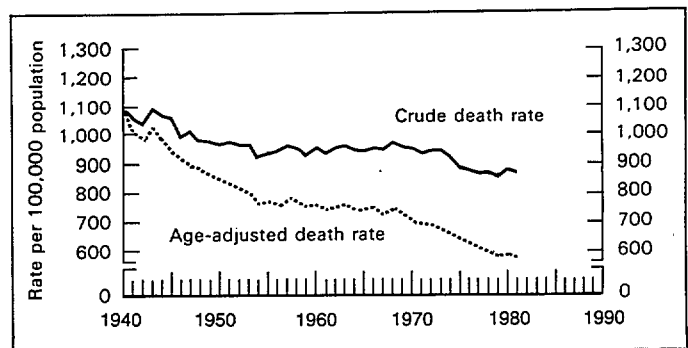


Figure 1. Crude and age-adjusted death rates: United States, 1940-81

rates show what the level of mortality would be if there were no changes in the age composition of the population from year to year. 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 risk when comparisons of mortality are being made for subgroups of the population, such as for sex or race groups, with different age compositions.

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

Death rates for every age group of both sexes declined between 1980 and 1981 (figure 2). For males and females combined, the smallest decreases (less than 2 percent each) were for age groups 45–54 years and 55–64 years, while the largest declines occurred in the age groups 15–24 years (7 percent) and under 1 year and 1–4 years (6 percent each) (table A). For almost all age groups of both sexes, the decline in death rates between 1980 and 1981 represents

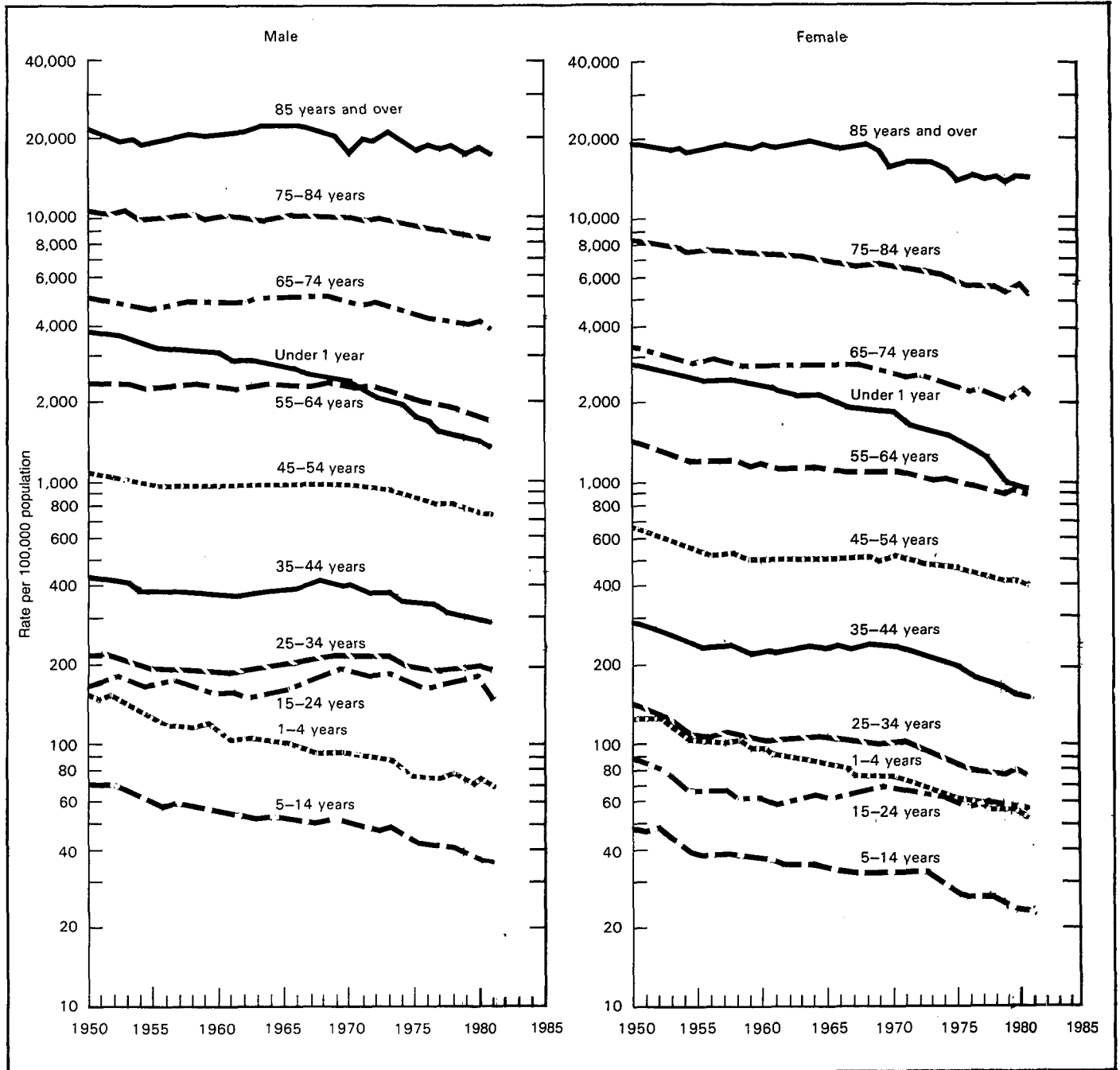


Figure 2. Death rates by age and sex: United States, 1950-81

**Table A. Percent change in death rates between 1980 and 1981 by age and sex: United States**

Age	Total	Male	Female	Percent change		
All ages . . . . .	-1.8	-2.3	-1.3			
Under 1 year . . . . .	-6.3	-6.8	-5.7			
1-4 years . . . . .	-5.8	-7.3	-3.5			
5-14 years . . . . .	-3.9	-2.7	-5.8			
15-24 years . . . . .	-7.2	-8.1	-4.7			
25-34 years . . . . .	-2.5	-2.8	-2.1			
35-44 years . . . . .	-2.9	-2.4	-3.8			
45-54 years . . . . .	-1.8	-2.0	-1.5			
55-64 years . . . . .	-1.8	-2.2	-1.0			
65-74 years . . . . .	-2.4	-2.7	-2.1			
75-84 years . . . . .	-3.9	-3.4	-4.4			
85 years and over . . . . .	-3.8	-3.5	-3.7			

a continuation of the general downward trend observed since 1950. In the past, males 15-24 years of age have been the primary exception to this general decline in age-specific death rates. It is notable, therefore, that among all age and sex groups shown in table A, the largest decline between 1980 and 1981 occurred for males aged 15-24 years (8 percent).

Between 1980 and 1981 the age-adjusted death rates for males and females each decreased about 3 percent. As in 1980, the 1981 age-adjusted death rate for males was 1.8 times that for females.

The age-adjusted death rate decreased 3 percent for the white population and 5 percent for the black population between 1980 and 1981. In 1981 the rate for the black population was 1.5 times that for the white population, the same as the ratio in 1980.

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

The average expectation of life at birth reached a record high of 74.2 years in 1981, up 0.5 years from 1980 (figure 3). This increase resumes the general upward trend in life expectancy in the United States that was interrupted in 1980.

The expectation of life at birth for 1981 represents the average number of years that a group of infants would live if they were to experience throughout life the age-specific

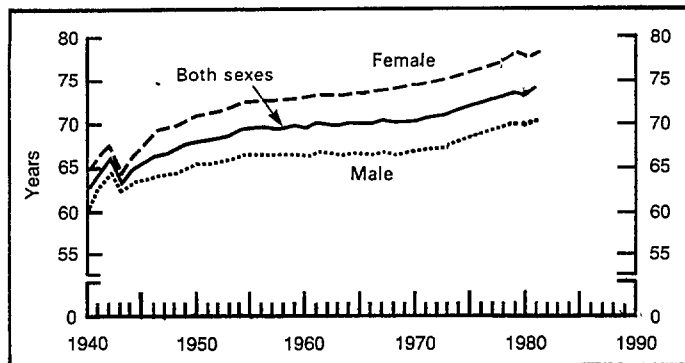


Figure 3. Life expectancy by sex: United States, 1940-81

death rates prevailing in 1981. In 1981 females could expect to live an average of 77.9 years, compared with 70.4 years for males. Between 1980 and 1981 males and females showed the same increase in life expectancy, 0.4 years. The difference in life expectancy between the sexes, which was widening for many years, appears to have stabilized. The difference was 7.5 years in both 1981 and 1980, compared with 7.6 years in 1970 and 6.5 years in 1960.

Between 1980 and 1981 the black population showed an increase of 0.7 years in life expectancy, to 68.7 years, almost twice the increase of 0.4 years for the white population. Life expectancy for the white population was 74.8 years in 1981. 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 6.1 years in 1981.

Among the race-sex groups, white females continued to have the highest life expectancy (78.5 years), followed by black females (73.0 years), white males (71.1 years), and black males (64.4 years). The largest gain in life expectancy between 1970 and 1981 was for black females (4.7 years), followed by black males (4.4 years), white males (3.1 years), and white females (2.9 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 3.6 years in the average number of years of life remaining at age 50 and an increase of 2.8 years at age 65.

**Leading causes of death**

Deaths assigned to the 15 leading causes accounted for 89 percent of the total number of deaths in 1981 (table B). (For ranking procedures, see Technical notes.) The list of the leading causes for 1981 remained unchanged from the list based on data for 1980.

Age-adjusted death rates are shown in figure 4 and table C 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 these 13 leading causes of death, age-adjusted death rates decreased between 1980 and 1981. These causes were Diseases of heart; Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues; Cerebrovascular diseases; Accidents and adverse effects; Pneumonia and influenza; Diabetes mellitus; Chronic liver disease and cirrhosis; Atherosclerosis; and Homicide and legal intervention. Among these 9 causes showing a decline in 1981, the largest decline was for Atherosclerosis (9 percent) followed by Chronic liver disease and cirrhosis, and Cerebrovascular diseases (7 percent each).

**Table B. Death rates and percent of total deaths for the 15 leading causes of death: United States, 1981**

[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 . . . . .	862.4	100.0
1	Diseases of heart . . . . .	328.7	38.1
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	184.0	21.3
3	Cerebrovascular diseases . . . . .	71.3	8.3
4	Accidents and adverse effects . . . . .	43.9	5.1
	Motor vehicle accidents . . . . .	22.4	...
	All other accidents and adverse effects . . . . .	21.5	...
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	25.7	3.0
6	Pneumonia and influenza . . . . .	23.4	2.7
7	Diabetes mellitus . . . . .	15.1	1.8
8	Chronic liver disease and cirrhosis . . . . .	12.8	1.5
9	Atherosclerosis . . . . .	12.2	1.4
10	Suicide . . . . .	12.0	1.4
11	Homicide and legal intervention . . . . .	10.3	1.2
12	Certain conditions originating in the perinatal period . . . . .	9.4	1.1
13	Nephritis, nephrotic syndrome, and nephrosis . . . . .	7.5	0.9
14	Congenital anomalies . . . . .	5.9	0.7
15	Septicemia . . . . .	4.6	0.5
	All other causes . . . . .	95.6	11.1

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

Increases in the age-adjusted death rates between 1980 and 1981 occurred for three causes—Chronic obstructive pulmonary diseases and allied conditions, Suicide, and Septicemia. For Septicemia the increase of 12 percent continued the rapid increase observed for the past three decades (figure 4). The age-adjusted death rate for Nephritis, nephrotic syndrome, and nephrosis was unchanged between 1980 and 1981.

Mortality levels for each of the 15 leading causes of death were higher for males than for females (table D). The largest differences were for violent and accidental causes of death. Specifically, the age-adjusted death rate for Homicide and legal intervention was almost 4 times as high for males as for females. The rates for Suicide and for Accidents and adverse effects were over 3 times as high for males as for females. The smallest sex difference was for Diabetes mellitus, with a male-to-female ratio of 1.0.

Between the major race groups, mortality was higher for the black population than for the white population for 12 of the 15 leading causes. The largest differential was for Homicide and legal intervention, where the age-adjusted rate for the black population was nearly 6 times that of the white population. Other causes for which the differential was large include Nephritis, nephrotic syndrome, and nephrosis and Septicemia, with black-to-white ratios of 2.9 and 2.7, respectively. However, infant mortality rates for the black population were slightly lower than for the white population for Congenital anomalies; and age-adjusted rates

**Table C. Age-adjusted death rates for 1981 and percent change in age-adjusted death rates for the 15 leading causes of death from 1980 to 1981 and 1979 to 1981: United States**

Rank <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Age-adjusted death rates for 1981 (per 100,000 population)	Percent change from	
			1980 to 1979 to 1981	1981
...	All causes . . . . .	568.2	-3.0	-1.5
1	Diseases of heart . . . . .	195.0	-3.5	-2.3
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	131.6	-0.9	+0.6
3	Cerebrovascular diseases . . . . .	38.1	-6.6	-8.4
4	Accidents and adverse effects . . . . .	39.8	-5.9	-7.2
...	Motor vehicle accidents . . . . .	21.8	-4.8	-6.0
...	All other accidents and adverse effects . . . . .	18.0	-7.7	-8.2
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	16.3	+2.5	+11.6
6	Pneumonia and influenza . . . . .	12.3	-4.7	+9.8
7	Diabetes mellitus . . . . .	9.8	-3.0	-
8	Chronic liver disease and cirrhosis . . . . .	11.4	-6.6	-5.0
9	Atherosclerosis . . . . .	5.2	-8.8	-8.8
10	Suicide . . . . .	11.5	+0.9	-1.7
11	Homicide and legal intervention . . . . .	10.4	-3.7	+2.0
12	Certain conditions originating in the perinatal period <sup>2</sup> . . . . .	...	-5.9	-11.2
13	Nephritis, nephrotic syndrome, and nephrosis . . . . .	4.5	-	+4.7
14	Congenital anomalies <sup>2</sup> . . . . .	...	-3.8	-3.8
15	Septicemia . . . . .	2.9	+11.5	+26.1

<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, percent changes are based on 1981 infant mortality rates instead of rates adjusted to the total population of the United States in 1940.

for the black population were lower than those for the white population for two causes—Chronic obstructive pulmonary diseases and allied conditions and Suicide.

**Infant mortality**

In 1981 there were 43,305 infant deaths in the United States, that is, deaths of infants under 1 year of age. The 1981 infant mortality rate of 11.9 infant deaths per 1,000 live births was the lowest rate ever recorded for the United States. The rate declined 6 percent from the level of 12.6 in 1980. Among white infants, the mortality rate decreased 5 percent, from 11.0 in 1980 to 10.5 in 1981, while for black infants the rate decreased 7 percent, from 21.4 in 1980 to 20.0 in 1981. The infant mortality rate for black infants was almost twice that for white infants in 1981, as it was 20 years earlier (figure 5).

The leading cause of infant mortality was Congenital anomalies, with an infant mortality rate of 245.6 deaths per 100,000 live births. Rates for the next three causes were at substantially lower levels—Sudden infant death syndrome (145.9), Respiratory distress syndrome (119.0), and Disorders related to short gestation and unspecified low birth weight (100.8). These four causes accounted for just over

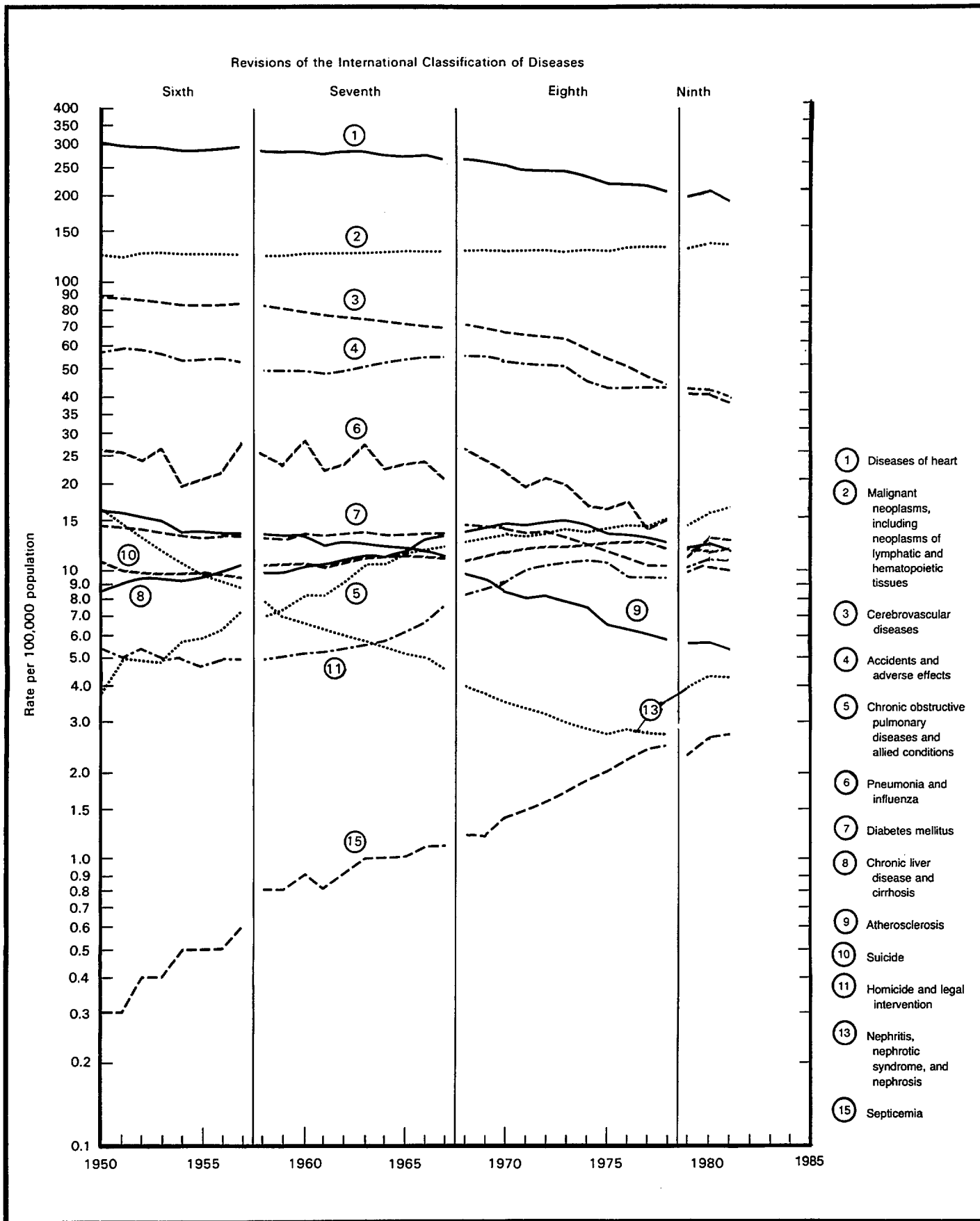


Figure 4. Age-adjusted death rates for 13 of the 15 leading causes of death: United States, 1950-81

**Table D. Ratio of age-adjusted death rates for the 15 leading causes of death, by sex and race: United States, 1981**

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	1.47
1	Diseases of heart . . . . .	2.00	1.28
2	Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . .	1.50	1.33
3	Cerebrovascular diseases . . . . .	1.17	1.80
4	Accidents and adverse effects . . . . .	2.95	1.16
...	Motor vehicle accidents . . . . .	2.89	0.81
...	All other accidents and adverse effects . . . . .	3.02	1.64
5	Chronic obstructive pulmonary diseases and allied conditions . . . . .	2.75	0.75
6	Pneumonia and influenza . . . . .	1.80	1.52
7	Diabetes mellitus . . . . .	1.04	2.21
8	Chronic liver disease and cirrhosis . . . . .	2.16	1.82
9	Atherosclerosis . . . . .	1.30	1.09
10	Suicide . . . . .	3.15	0.52
11	Homicide and legal intervention . . . . .	3.88	5.89
12	Certain conditions originating in the perinatal period <sup>2</sup> . . . . .	1.25	2.26
13	Nephritis, nephrotic syndrome, and nephrosis . . . . .	1.55	2.92
14	Congenital anomalies <sup>2</sup> . . . . .	1.09	0.98
15	Septicemia . . . . .	1.41	2.72

<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 1981 infant mortality rates instead of rates adjusted to the total population of the United States in 1940.

half of all deaths to infants under 1 year of age in 1981. Among the ten leading causes of infant death, those ranking fifth through tenth accounted for 15 percent of all infant deaths.

The difference between infant mortality rates for black and white infants varied by cause. For the leading cause—Congenital anomalies—the risk of infant death was slightly lower for black infants than for white infants. For all the other leading causes, the risk was much higher for black infants. Expressed in terms of the ratio of the infant mortality rate for black infants to that for white infants, the relative differences may be ranked, beginning with the highest ratio, as follows: Disorders relating to short gestation and unspecified low birthweight (3.4); Newborn affected by maternal complications of pregnancy (2.4); Neonatal hemorrhage (2.3); Intra-uterine hypoxia and birth asphyxia (2.2); Sudden infant death syndrome (2.0); Accidents and adverse effects (1.9); Birth trauma (1.8); Respiratory distress syndrome (1.6); Newborn affected by complications of placenta, cord, and membranes (1.5).

**Maternal mortality**

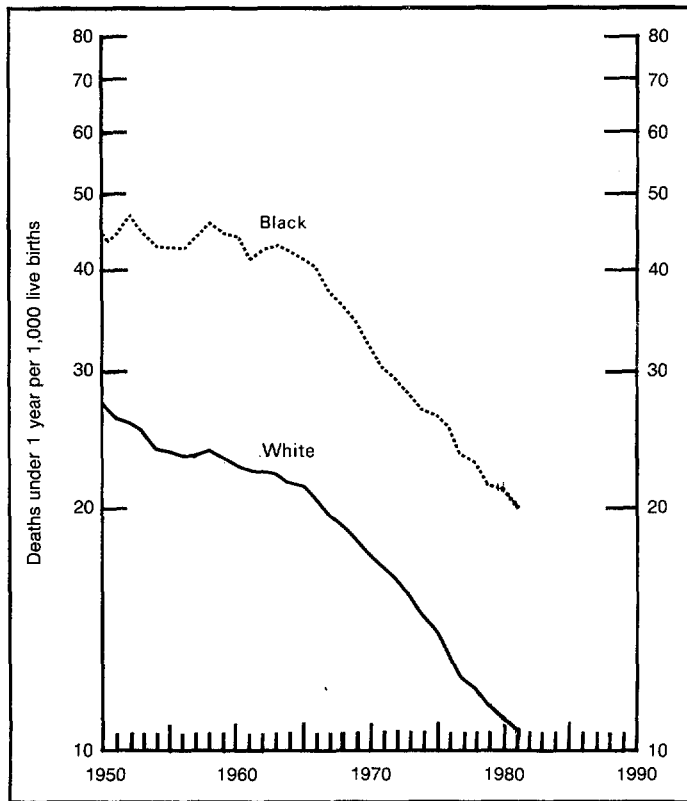
In 1981, 309 women died of maternal causes (table E). As in previous years, this number does not include all deaths occurring to pregnant women, but only deaths assigned to Complications of pregnancy, childbirth, and the puerperium (ICD-9 Nos. 630-676). The maternal mortality rate was

**Table E. Maternal deaths and maternal mortality rates by race: United States, 1981**

[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 . . . . .	309	8.5
White . . . . .	184	6.3
All other . . . . .	125	17.3
Black . . . . .	120	20.4

8 percent lower in 1981 (8.5 deaths per 100,000 live births) than in 1980 (9.2). Black women were 3 times as likely as white women to die of causes associated with pregnancy, childbirth, and the puerperium.



**Figure 5. Infant mortality rates by race: United States, 1950-81**

## References

<sup>1</sup>World Health Organization: *Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death* (based on the recommendations of the Ninth Revision Conference, 1975). Geneva. World Health Organization, 1977.

<sup>2</sup>National Center for Health Statistics, A. J. Klebba and J. H. Scott: Estimates of selected comparability ratios based on dual coding of 1976 death certificates by the Eighth and Ninth Revisions of the International Classification of Diseases. *Monthly Vital Statistics Report*. Vol. 28, No. 11 Supp. DHEW Pub. No. (PHS) 80-1120. Public Health Service. Hyattsville, Md., Feb. 29, 1980.

<sup>3</sup>National Center for Health Statistics, A. J. Klebba and A. B. Dolman: Comparability of mortality statistics for the Seventh and Eighth Revisions of the International Classification of Diseases, United States. *Vital and Health Statistics*. Series 2, No. 66. DHEW Pub. No. (HRA) 76-1340. Health Resources Administration. Washington. U.S. Government Printing Office, Oct. 1975.

<sup>4</sup>National Center for Health Statistics, Comparability of mortality statistics for the Sixth and Seventh Revisions, United States, 1958. *Vital Statistics—Special Reports*. Vol. 51, No. 4. Public Health Service. Washington. U.S. Government Printing Office, Mar. 1965.

<sup>5</sup>National Center for Health Statistics: Vital Statistics, Instructions for classifying the underlying cause of death, annually. *NCHS Instruction Manual*, Part 2a. Public Health Service.

<sup>6</sup>U.S. Bureau of the Census: Estimates of the population of the United States, by age, sex, and race: 1980 to 1982. *Current Population Reports*. Series P-25, No. 929. Washington. U.S. Government Printing Office, 1983.

<sup>7</sup>U.S. Bureau of the Census: Estimates of the population of States, by age: July 1, 1981, and 1982. *Current Population Reports*. Series P-25, No. 930. Washington. U.S. Government Printing Office, April 1983.

<sup>8</sup>U.S. Bureau of the Census: Preliminary estimates of the population of the United States, by age, sex, and race: 1970 to 1981. *Current Population Reports*. Series P-25, No. 917. Washington. U.S. Government Printing Office, July 1982.

**Table 1. Deaths and death rates by age, race, and sex: United States, 1981**

Age	All races			White			All other			Black		
							Total					
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
	Number											
All ages . . . . .	1,977,981	1,063,772	914,209	1,731,233	925,490	805,743	246,748	138,282	108,466	228,560	127,296	101,264
Under 1 year . . . . .	43,305	24,452	18,853	30,478	17,411	13,067	12,827	7,041	5,786	11,757	6,451	5,306
1-4 years . . . . .	8,046	4,600	3,446	5,937	3,397	2,540	2,109	1,203	906	1,881	1,067	814
5-9 years . . . . .	4,671	2,821	1,850	3,618	2,181	1,437	1,053	640	413	937	569	368
10-14 years . . . . .	5,407	3,435	1,972	4,300	2,760	1,540	1,107	675	432	976	587	389
15-19 years . . . . .	18,485	13,460	5,025	15,542	11,310	4,232	2,943	2,150	793	2,533	1,856	677
20-24 years . . . . .	26,624	20,235	6,389	21,372	16,355	5,017	5,252	3,880	1,372	4,679	3,469	1,210
25-29 years . . . . .	25,828	19,041	6,787	19,675	14,641	5,034	6,153	4,400	1,753	5,608	4,043	1,565
30-34 years . . . . .	25,425	17,698	7,727	18,901	13,218	5,683	6,524	4,480	2,044	5,916	4,091	1,825
35-39 years . . . . .	25,949	17,053	8,896	19,459	12,829	6,630	6,490	4,224	2,266	5,937	3,905	2,032
40-44 years . . . . .	32,589	20,852	11,737	24,658	15,849	8,809	7,931	5,003	2,928	7,246	4,591	2,655
45-49 years . . . . .	48,546	30,732	17,814	37,980	24,153	13,827	10,566	6,579	3,987	9,766	6,109	3,657
50-54 years . . . . .	80,687	51,138	29,549	65,786	42,071	23,715	14,901	9,067	5,834	13,909	8,474	5,435
55-59 years . . . . .	123,693	78,042	45,651	103,698	66,011	37,687	19,995	12,031	7,964	18,803	11,287	7,516
60-64 years . . . . .	166,316	103,843	62,473	142,992	90,093	52,899	23,324	13,750	9,574	21,974	12,912	9,062
65-69 years . . . . .	213,890	130,290	83,600	187,095	114,982	72,113	26,795	15,308	11,487	25,141	14,290	10,851
70-74 years . . . . .	250,758	145,260	105,498	222,350	129,666	92,684	28,408	15,594	12,814	26,608	14,373	12,235
75-79 years . . . . .	261,631	138,021	123,610	236,476	125,170	111,306	25,155	12,851	12,304	23,300	11,713	11,587
80-84 years . . . . .	253,018	114,500	138,518	231,851	104,633	127,218	21,167	9,867	11,300	19,579	8,925	10,654
85 years and over . . . . .	362,499	127,874	234,625	338,658	118,475	220,183	23,841	9,399	14,442	21,833	8,468	13,365
Not stated . . . . .	614	425	189	407	285	122	207	140	67	177	116	61
	Rates per 100,000 population											
All ages <sup>1</sup> . . . . .	862.4	954.5	775.4	880.3	965.1	799.6	755.0	889.4	633.0	841.7	991.6	707.3
Under 1 year . . . . .	1,207.3	1,331.8	1,076.7	1,062.0	1,182.0	935.4	1,786.5	1,934.3	1,634.5	1,992.7	2,164.8	1,823.4
1-4 years . . . . .	60.2	67.3	52.8	54.3	60.5	47.7	87.3	98.8	75.6	93.6	105.3	81.6
5-9 years . . . . .	29.1	34.4	23.6	27.5	32.4	22.4	36.2	43.6	28.7	38.8	46.8	30.7
10-14 years . . . . .	29.6	36.9	22.1	28.5	35.7	20.9	35.1	42.4	27.6	36.6	43.8	29.4
15-19 years . . . . .	90.7	129.7	50.2	91.8	130.9	51.1	85.2	123.6	46.2	85.7	125.3	45.9
20-24 years . . . . .	122.5	185.6	59.0	116.4	176.6	55.1	155.7	236.7	79.1	164.5	253.0	82.1
25-29 years . . . . .	128.7	190.5	67.4	115.1	170.3	59.2	206.8	314.1	111.4	231.1	355.0	121.5
30-34 years . . . . .	135.7	190.8	81.6	117.3	164.1	70.5	248.2	367.2	145.1	284.8	425.3	163.7
35-39 years . . . . .	180.1	240.6	121.5	155.7	206.7	105.5	339.3	480.0	219.4	393.7	568.4	247.2
40-44 years . . . . .	270.6	353.4	191.0	236.5	307.5	167.1	489.6	670.6	335.0	560.0	784.8	374.5
45-49 years . . . . .	441.8	575.6	315.4	397.1	514.7	283.8	743.6	1,020.0	513.8	842.6	1,172.6	573.2
50-54 years . . . . .	698.8	920.9	493.1	644.8	849.4	451.8	1,108.7	1,508.7	784.1	1,247.4	1,705.0	879.4
55-59 years . . . . .	1,066.4	1,427.8	744.4	1,002.1	1,345.8	692.4	1,597.0	2,144.6	1,154.2	1,788.9	2,396.4	1,280.4
60-64 years . . . . .	1,608.9	2,171.1	1,124.8	1,537.9	2,085.0	1,063.1	2,244.9	2,982.6	1,656.4	2,469.0	3,293.9	1,819.7
65-69 years . . . . .	2,408.1	3,294.3	1,696.8	2,338.1	3,215.4	1,629.3	3,044.9	4,039.1	2,292.8	3,303.7	4,424.1	2,477.4
70-74 years . . . . .	3,573.1	4,935.8	2,588.9	3,509.9	4,885.7	2,517.9	4,159.3	5,395.8	3,252.3	4,471.9	5,866.5	3,495.7
75-79 years . . . . .	5,265.3	7,218.7	4,043.5	5,250.4	7,256.2	4,005.3	5,398.1	6,835.6	4,425.9	5,738.9	7,366.7	4,691.1
80-84 years . . . . .	8,336.7	10,884.0	6,985.3	8,319.0	10,922.0	6,955.6	8,500.8	10,496.8	7,337.7	9,106.5	11,156.3	7,891.9
85 years and over . . . . .	15,379.7	18,138.2	14,202.5	15,628.0	18,454.0	14,438.2	12,547.9	14,685.9	11,371.7	13,073.7	15,396.4	11,933.0

<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, 1981**

[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	Number living at beginning of age interval	Number dying during 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)	
x to x + n	$nq_x$	$l_x$	$n^d_x$	$n^l_x$	$T_x$	$e_x$
All races						
0-1	0.0119	100,000	1,194	98,965	7,417,771	74.2
1-5	.0024	98,806	236	394,675	7,318,806	74.1
5-10	.0015	98,570	144	492,463	6,924,131	70.2
10-15	.0015	98,426	146	491,822	6,431,668	65.3
15-20	.0045	98,280	447	490,386	5,939,846	60.4
20-25	.0061	97,833	598	487,689	5,449,460	55.7
25-30	.0064	97,235	624	484,615	4,961,771	51.0
30-35	.0068	96,611	655	481,489	4,477,156	46.3
35-40	.0090	95,956	859	477,770	3,995,667	41.6
40-45	.0134	95,097	1,277	472,503	3,517,897	37.0
45-50	.0219	93,820	2,053	464,288	3,045,394	32.5
50-55	.0344	91,767	3,161	451,424	2,581,106	28.1
55-60	.0521	88,606	4,617	432,110	2,129,682	24.0
60-65	.0776	83,989	6,521	404,395	1,697,572	20.2
65-70	.1141	77,468	8,837	366,109	1,293,177	16.7
70-75	.1648	68,631	11,309	315,778	927,068	13.5
75-80	.2335	57,322	13,386	253,613	611,290	10.7
80-85	.3450	43,936	15,158	181,171	357,677	8.1
85 and over	1.0000	28,778	28,778	176,506	176,506	6.1
Male						
0-1	0.0132	100,000	1,316	98,860	7,043,364	70.4
1-5	.0027	98,684	263	394,131	6,944,504	70.4
5-10	.0017	98,421	170	491,652	6,550,373	66.6
10-15	.0018	98,251	181	490,889	6,058,721	61.7
15-20	.0065	98,070	638	488,921	5,567,832	56.8
20-25	.0092	97,432	901	484,935	5,078,911	52.1
25-30	.0095	96,531	915	480,331	4,593,976	47.6
30-35	.0095	95,616	910	475,883	4,113,645	43.0
35-40	.0120	94,706	1,132	470,873	3,637,762	38.4
40-45	.0175	93,574	1,638	464,046	3,166,889	33.8
45-50	.0284	91,936	2,613	453,570	2,702,843	29.4
50-55	.0452	89,323	4,033	437,186	2,249,273	25.2
55-60	.0692	85,290	5,899	412,497	1,812,087	21.2
60-65	.1034	79,391	8,209	377,276	1,399,590	17.6
65-70	.1528	71,182	10,877	329,470	1,022,314	14.4
70-75	.2203	60,305	13,285	268,750	692,844	11.5
75-80	.3056	47,020	14,367	198,809	424,094	9.0
80-85	.4247	32,653	13,868	127,118	225,285	6.9
85 and over	1.0000	18,785	18,785	98,167	98,167	5.2
Female						
0-1	0.0107	100,000	1,067	99,074	7,789,632	77.9
1-5	.0021	98,933	207	395,245	7,690,558	77.7
5-10	.0012	98,726	117	493,313	7,295,313	73.9
10-15	.0011	98,609	109	492,800	6,802,000	69.0
15-20	.0025	98,500	247	491,925	6,309,200	64.1
20-25	.0030	98,253	291	490,550	5,817,275	59.2
25-30	.0034	97,962	330	489,012	5,326,725	54.4
30-35	.0041	97,632	399	487,225	4,837,713	49.6
35-40	.0061	97,233	588	484,795	4,350,488	44.7
40-45	.0095	96,645	917	481,080	3,865,693	40.0
45-50	.0157	95,728	1,500	475,111	3,384,613	35.4
50-55	.0244	94,228	2,301	465,714	2,909,502	30.9
55-60	.0366	91,927	3,368	451,657	2,443,788	26.6

Table 2. Abridged life tables by race and sex: United States, 1981—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)	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
x to x + n	$nq_x$	$l_x$	$n d_x$	$nL_x$	$T_x$	$e_x$
Female—Con.						
60-65 . . . . .	.0549	88,559	4,863	431,301	1,992,131	22.5
65-70 . . . . .	.0818	83,696	6,846	402,333	1,560,830	18.6
70-75 . . . . .	.1223	76,850	9,402	362,005	1,158,497	15.1
75-80 . . . . .	.1849	67,448	12,470	307,239	796,492	11.8
80-85 . . . . .	.2988	54,978	16,426	234,036	489,253	8.9
85 and over . . . . .	1.0000	38,552	38,552	255,217	255,217	6.6
White						
0-1 . . . . .	0.0105	100,000	1,049	99,090	7,479,954	74.8
1-5 . . . . .	.0021	98,951	213	395,314	7,380,864	74.6
5-10 . . . . .	.0014	98,738	137	493,324	6,985,550	70.7
10-15 . . . . .	.0014	98,601	140	492,709	6,492,226	65.8
15-20 . . . . .	.0046	98,461	454	491,267	5,999,517	60.9
20-25 . . . . .	.0058	98,007	569	488,617	5,508,250	56.2
25-30 . . . . .	.0057	97,438	560	485,780	5,019,633	51.5
30-35 . . . . .	.0059	96,878	568	483,031	4,533,853	46.8
35-40 . . . . .	.0077	96,310	746	479,818	4,050,822	42.1
40-45 . . . . .	.0117	95,564	1,122	475,222	3,571,004	37.4
45-50 . . . . .	.0197	94,442	1,858	467,881	3,095,782	32.8
50-55 . . . . .	.0318	92,584	2,947	456,046	2,627,901	28.4
55-60 . . . . .	.0490	89,637	4,395	437,829	2,171,855	24.2
60-65 . . . . .	.0744	85,242	6,338	411,131	1,734,026	20.3
65-70 . . . . .	.1110	78,904	8,756	373,548	1,322,895	16.8
70-75 . . . . .	.1621	70,148	11,370	323,313	949,347	13.5
75-80 . . . . .	.2330	58,778	13,695	260,233	626,034	10.7
80-85 . . . . .	.3444	45,083	15,528	186,011	365,801	8.1
85 and over . . . . .	1.0000	29,555	29,555	179,790	179,790	6.1
White, male						
0-1 . . . . .	0.0117	100,000	1,166	98,988	7,111,456	71.1
1-5 . . . . .	.0024	98,834	237	394,796	7,012,468	71.0
5-10 . . . . .	.0016	98,597	160	492,561	6,617,672	67.1
10-15 . . . . .	.0018	98,437	176	491,830	6,125,111	62.2
15-20 . . . . .	.0066	98,261	645	489,851	5,633,281	57.3
20-25 . . . . .	.0088	97,616	859	485,941	5,143,430	52.7
25-30 . . . . .	.0085	96,757	819	481,690	4,657,489	48.1
30-35 . . . . .	.0082	95,938	785	477,794	4,175,799	43.5
35-40 . . . . .	.0103	95,153	977	473,492	3,698,005	38.9
40-45 . . . . .	.0152	94,176	1,435	467,560	3,224,513	34.2
45-50 . . . . .	.0254	92,741	2,360	458,221	2,756,953	29.7
50-55 . . . . .	.0417	90,381	3,771	443,137	2,298,732	25.4
55-60 . . . . .	.0653	86,610	5,658	419,723	1,855,595	21.4
60-65 . . . . .	.0995	80,952	8,056	385,500	1,435,872	17.7
65-70 . . . . .	.1495	72,896	10,894	338,056	1,050,372	14.4
70-75 . . . . .	.2183	62,002	13,533	276,692	712,316	11.5
75-80 . . . . .	.3069	48,469	14,877	204,842	435,624	9.0
80-85 . . . . .	.4259	33,592	14,306	130,694	230,782	6.9
85 and over . . . . .	1.0000	19,286	19,286	100,088	100,088	5.2
White, female						
0-1 . . . . .	0.0092	100,000	925	99,197	7,847,809	78.5
1-5 . . . . .	.0019	99,075	187	395,866	7,748,612	78.2
5-10 . . . . .	.0011	98,888	111	494,140	7,352,746	74.4
10-15 . . . . .	.0010	98,777	103	493,651	6,858,606	69.4

**Table 2. Abridged life tables by race and sex: United States, 1981—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)	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>White, female—Con.</b>						
15-20	.0026	98,674	252	492,780	6,364,955	64.5
20-25	.0028	98,422	272	491,436	5,872,175	59.7
25-30	.0030	98,150	291	490,044	5,380,739	54.8
30-35	.0035	97,859	345	488,484	4,890,695	50.0
35-40	.0052	97,514	511	486,387	4,402,211	45.1
40-45	.0083	97,003	804	483,151	3,915,824	40.4
45-50	.0141	96,199	1,354	477,825	3,432,673	35.7
50-55	.0224	94,845	2,121	469,244	2,954,848	31.2
55-60	.0341	92,724	3,159	456,158	2,485,604	26.8
60-65	.0519	89,565	4,649	436,861	2,029,446	22.7
65-70	.0786	84,916	6,671	408,929	1,592,585	18.8
70-75	.1190	78,245	9,311	369,327	1,183,656	15.1
75-80	.1831	68,934	12,620	314,426	814,329	11.8
80-85	.2973	56,314	16,743	239,985	499,903	8.9
85 and over	1.0000	39,571	39,571	259,918	259,918	6.6
<b>All other</b>						
0-1	0.0178	100,000	1,784	98,458	7,030,907	70.3
1-5	.0034	98,216	334	392,065	6,932,449	70.6
5-10	.0018	97,882	178	488,921	6,540,384	66.8
10-15	.0018	97,704	172	488,156	6,051,463	61.9
15-20	.0043	97,532	418	486,743	5,563,307	57.0
20-25	.0078	97,114	757	483,770	5,076,564	52.3
25-30	.0103	96,357	993	479,353	4,592,794	47.7
30-35	.0124	95,364	1,178	474,005	4,113,441	43.1
35-40	.0168	94,186	1,586	467,167	3,639,436	38.6
40-45	.0242	92,600	2,242	457,657	3,172,269	34.3
45-50	.0366	90,358	3,307	443,885	2,714,612	30.0
50-55	.0541	87,051	4,710	423,949	2,270,727	26.1
55-60	.0770	82,341	6,342	396,382	1,846,778	22.4
60-65	.1066	75,999	8,098	360,319	1,450,396	19.1
65-70	.1419	67,901	9,638	315,864	1,090,077	16.1
70-75	.1893	58,263	11,031	263,932	774,213	13.3
75-80	.2379	47,232	11,234	207,473	510,281	10.8
80-85	.3494	35,998	12,577	147,406	302,808	8.4
85 and over	1.0000	23,421	23,421	155,402	155,402	6.6
<b>All other, male</b>						
0-1	0.0193	100,000	1,929	98,337	6,609,360	66.1
1-5	.0038	98,071	377	391,393	6,511,023	66.4
5-10	.0022	97,694	213	487,891	6,119,630	62.6
10-15	.0021	97,481	208	486,983	5,631,739	57.8
15-20	.0062	97,273	606	485,058	5,144,756	52.9
20-25	.0118	96,667	1,144	480,624	4,659,698	48.2
25-30	.0156	95,523	1,491	473,913	4,179,074	43.7
30-35	.0182	94,032	1,715	466,014	3,705,161	39.4
35-40	.0237	92,317	2,192	456,348	3,239,147	35.1
40-45	.0330	90,125	2,975	443,495	2,782,799	30.9
45-50	.0499	87,150	4,345	425,317	2,339,304	26.8
50-55	.0729	82,805	6,038	399,485	1,913,987	23.1
55-60	.1020	76,767	7,833	364,786	1,514,502	19.7
60-65	.1391	68,934	9,589	321,159	1,149,716	16.7
65-70	.1839	59,345	10,915	269,719	828,557	14.0
70-75	.2385	48,430	11,552	213,183	558,838	11.5
75-80	.2910	36,878	10,732	156,589	345,655	9.4

Table 2. Abridged life tables by race and sex: United States, 1981—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)	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)
x to x + n	$nq_x$	$l_x$	$n d_x$	$n l_x$	$T_x$	$e_x$
All other, male—Con.						
80–85 . . . . .	.4121	26,146	10,774	102,326	189,066	7.2
85 and over . . . . .	1.0000	15,372	15,372	86,740	86,740	5.6
All other, female						
0–1 . . . . .	0.0163	100,000	1,634	98,584	7,446,895	74.5
1–5 . . . . .	.0030	98,366	291	392,758	7,348,311	74.7
5–10 . . . . .	.0014	98,075	142	489,980	6,955,553	70.9
10–15 . . . . .	.0014	97,933	136	489,362	6,465,573	66.0
15–20 . . . . .	.0023	97,797	227	488,475	5,976,211	61.1
20–25 . . . . .	.0040	97,570	387	486,932	5,487,736	56.2
25–30 . . . . .	.0056	97,183	541	484,628	5,000,804	51.5
30–35 . . . . .	.0072	96,642	700	481,574	4,516,176	46.7
35–40 . . . . .	.0109	95,942	1,047	477,252	4,034,602	42.1
40–45 . . . . .	.0166	94,895	1,578	470,735	3,557,350	37.5
45–50 . . . . .	.0254	93,317	2,373	460,933	3,086,615	33.1
50–55 . . . . .	.0386	90,944	3,507	446,321	2,625,682	28.9
55–60 . . . . .	.0563	87,437	4,920	425,376	2,179,361	24.9
60–65 . . . . .	.0797	82,517	6,580	396,778	1,753,985	21.3
65–70 . . . . .	.1088	75,937	8,263	359,604	1,357,207	17.9
70–75 . . . . .	.1513	67,674	10,239	313,190	997,603	14.7
75–80 . . . . .	.1998	57,435	11,474	258,283	684,413	11.9
80–85 . . . . .	.3103	45,961	14,261	193,450	426,130	9.3
85 and over . . . . .	1.0000	31,700	31,700	232,680	232,680	7.3
Black						
0–1 . . . . .	0.0200	100,000	2,001	98,260	6,871,846	68.7
1–5 . . . . .	.0036	97,999	358	391,139	6,773,586	69.1
5–10 . . . . .	.0019	97,641	190	487,682	6,382,447	65.4
10–15 . . . . .	.0018	97,451	179	486,876	5,894,765	60.5
15–20 . . . . .	.0043	97,272	419	485,446	5,407,889	55.6
20–25 . . . . .	.0082	96,853	797	482,379	4,922,443	50.8
25–30 . . . . .	.0115	96,056	1,105	477,576	4,440,064	46.2
30–35 . . . . .	.0142	94,951	1,345	471,543	3,962,488	41.7
35–40 . . . . .	.0195	93,606	1,826	463,699	3,490,945	37.3
40–45 . . . . .	.0276	91,780	2,536	452,850	3,027,246	33.0
45–50 . . . . .	.0413	89,244	3,689	437,384	2,574,396	28.8
50–55 . . . . .	.0606	85,555	5,187	415,298	2,137,012	25.0
55–60 . . . . .	.0854	80,368	6,860	385,244	1,721,714	21.4
60–65 . . . . .	.1165	73,508	8,563	346,697	1,336,470	18.2
65–70 . . . . .	.1530	64,945	9,935	300,314	989,773	15.2
70–75 . . . . .	.2020	55,010	11,112	247,411	689,459	12.5
75–80 . . . . .	.2508	43,898	11,011	191,303	442,048	10.1
80–85 . . . . .	.3693	32,887	12,145	132,904	250,745	7.6
85 and over . . . . .	1.0000	20,742	20,742	117,841	117,841	5.7
Black, male						
0–1 . . . . .	0.0217	100,000	2,167	98,119	6,435,098	64.4
1–5 . . . . .	.0041	97,833	401	390,382	6,336,979	64.8
5–10 . . . . .	.0023	97,432	228	486,538	5,946,597	61.0
10–15 . . . . .	.0022	97,204	214	485,584	5,460,059	56.2
15–20 . . . . .	.0063	96,990	612	483,635	4,974,475	51.3
20–25 . . . . .	.0127	96,378	1,220	479,015	4,490,840	46.6
25–30 . . . . .	.0176	95,158	1,676	471,632	4,011,825	42.2
30–35 . . . . .	.0211	93,482	1,970	462,645	3,540,193	37.9

Table 2. Abridged life tables by race and sex: United States, 1981—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	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 this age interval	In this and all subsequent age intervals	Average number of years of life remaining at beginning of age interval
	(1)	(2)	(3)	(4)	(5)	(6)
$x$ to $x + n$	$nq_x$	$l_x$	$n^d_x$	$nL_x$	$T_x$	$e_x$
Black, male—Con.						
35-40 . . . . .	.0280	91,512	2,566	451,418	3,077,548	33.6
40-45 . . . . .	.0385	88,946	3,425	436,511	2,626,130	29.5
45-50 . . . . .	.0571	85,521	4,879	415,870	2,189,619	25.6
50-55 . . . . .	.0820	80,642	6,609	387,262	1,773,749	22.0
55-60 . . . . .	.1133	74,033	8,387	349,748	1,386,487	18.7
60-65 . . . . .	.1524	65,646	10,004	303,645	1,036,739	15.8
65-70 . . . . .	.1995	55,642	11,100	250,662	733,094	13.2
70-75 . . . . .	.2563	44,542	11,418	193,974	482,432	10.8
75-80 . . . . .	.3099	33,124	10,264	138,976	288,458	8.7
80-85 . . . . .	.4320	22,860	9,876	88,233	149,482	6.5
85 and over . . . . .	1.0000	12,984	12,984	61,249	61,249	4.7
Black, female						
0-1 . . . . .	0.0183	100,000	1,831	98,405	7,301,788	73.0
1-5 . . . . .	.0032	98,169	313	391,916	7,203,383	73.4
5-10 . . . . .	.0015	97,856	151	488,859	6,811,467	69.6
10-15 . . . . .	.0015	97,705	144	488,203	6,322,608	64.7
15-20 . . . . .	.0023	97,561	225	487,299	5,834,405	59.8
20-25 . . . . .	.0041	97,336	400	485,734	5,347,106	54.9
25-30 . . . . .	.0061	96,936	589	483,279	4,861,372	50.2
30-35 . . . . .	.0082	96,347	787	479,895	4,378,093	45.4
35-40 . . . . .	.0123	95,560	1,174	475,048	3,898,198	40.8
40-45 . . . . .	.0186	94,386	1,752	467,773	3,423,150	36.3
45-50 . . . . .	.0283	92,634	2,622	456,911	2,955,377	31.9
50-55 . . . . .	.0431	90,012	3,881	440,747	2,498,466	27.8
55-60 . . . . .	.0622	86,131	5,357	417,783	2,057,719	23.9
60-65 . . . . .	.0872	80,774	7,044	386,929	1,639,936	20.3
65-70 . . . . .	.1170	73,730	8,627	347,667	1,253,007	17.0
70-75 . . . . .	.1617	65,103	10,527	299,597	905,340	13.9
75-80 . . . . .	.2104	54,576	11,480	243,892	605,743	11.1
80-85 . . . . .	.3294	43,096	14,196	179,176	361,851	8.4
85 and over . . . . .	1.0000	28,900	28,900	182,675	182,675	6.3

Table 3. Deaths under 1 year and infant mortality rates for the 10 leading causes of infant death: United States, 1981

[Rates per 100,000 live births]

Rank order <sup>1</sup>	Cause of death (Ninth Revision International Classification of Diseases, 1975)	Number	Rate
...	All causes	43,305	1,193.2
1	Congenital anomalies	740-759 8,914	245.6
2	Sudden infant death syndrome	798.0 5,295	145.9
3	Respiratory distress syndrome	769 4,319	119.0
4	Disorders relating to short gestation and unspecified low birthweight	765 3,658	100.8
5	Newborn affected by maternal complications of pregnancy	761 1,458	40.2
6	Intrauterine hypoxia and birth asphyxia	768 1,405	38.7
7	Accidents and adverse effects	E800-E949 981	27.0
8	Newborn affected by complications of placenta, cord, and membranes	762 977	26.9
9	Birth trauma	767 918	25.3
10	Neonatal hemorrhage	772 909	25.0
...	All other causes	Residual 14,471	398.7

<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, 1979-81**

[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 . . . . .	1981	862.4	1,207.3	60.2	29.4	107.1	132.1	221.3	573.5	1,322.1	2,922.3	6,429.9	15,379.7	568.2
	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	1981	328.7	21.3	2.5	0.9	2.6	8.4	43.2	177.7	481.5	1,175.8	2,850.3	7,458.8	195.0
	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	1981	3.2	0.2	0.0	0.1	0.1	0.4	1.2	3.1	7.0	14.7	20.9	24.2	2.3
	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	1981	9.1	-	-	0.0	0.0	0.3	1.8	6.8	15.7	33.2	74.4	168.1	5.7
	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	1981	1.5	-	0.0	-	0.0	0.1	0.1	0.4	1.2	4.4	14.8	44.6	0.8
	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	1981	242.1	0.7	0.1	0.1	0.3	3.2	28.2	128.5	359.9	892.1	2,124.7	5,359.8	143.4
	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	1981	127.5	0.4	0.0	0.1	0.2	2.1	18.9	86.2	233.5	542.8	1,070.0	1,862.6	81.9
	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	1981	2.0	0.1	-	-	0.0	0.1	0.5	1.9	4.4	7.6	13.5	29.2	1.3
	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	1981	0.2	-	-	-	-	-	0.0	0.2	0.3	0.8	2.4	5.1	0.1
	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	1981	112.3	0.3	0.0	0.1	0.1	1.0	8.7	40.2	121.6	340.8	1,038.8	3,462.8	60.0
	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	1981	3.2	0.4	0.1	0.0	0.1	0.2	0.6	1.7	4.2	12.0	30.0	59.8	2.0
	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	1981	69.7	20.0	2.4	0.7	2.0	4.1	11.3	37.2	93.5	219.3	585.5	1,802.3	40.8
	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	1981	184.0	2.5	4.9	4.1	5.7	13.0	47.2	178.1	434.8	814.8	1,221.8	1,575.3	131.6
	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	1981	3.7	0.0	-	0.0	0.1	0.2	0.9	5.0	11.6	16.5	16.5	23.6	2.8
	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

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, 1979-81—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>														
<b>Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159</b>														
	1981	48.5	0.3	0.2	0.1	0.4	1.6	7.9	35.5	101.2	217.9	381.0	552.7	32.5
	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
<b>Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165</b>														
	1981	48.5	0.2	0.0	0.0	0.1	0.7	9.5	56.7	145.9	245.3	252.6	187.7	36.6
	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
<b>Malignant neoplasm of breast . . . . . 174-175</b>														
	1981	16.0	0.0	0.0	0.0	0.0	1.7	8.9	25.0	42.4	59.6	80.5	121.6	12.5
	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
<b>Malignant neoplasms of genital organs . . . . . 179-187</b>														
	1981	20.4	0.1	0.0	0.0	0.4	1.5	4.2	13.6	35.9	87.1	174.2	258.3	13.3
	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
<b>Malignant neoplasms of urinary organs . . . . . 188-189</b>														
	1981	7.8	0.1	0.2	0.1	0.1	0.3	1.2	5.2	15.0	34.2	65.2	100.1	5.1
	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
<b>Malignant neoplasms of all other and unspecified sites . . . . . 170-173,190-199</b>														
	1981	22.5	1.3	2.4	1.7	2.1	3.7	8.9	24.1	51.4	89.6	133.8	187.6	16.8
	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
<b>Leukemia . . . . . 204-208</b>														
	1981	7.1	0.5	1.7	1.7	1.5	1.7	2.6	5.1	11.4	25.3	50.7	72.8	5.1
	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
<b>Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203</b>														
	1981	9.4	0.1	0.2	0.4	1.0	1.7	3.2	8.0	19.9	39.3	67.3	70.9	6.8
	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
<b>Cerebrovascular diseases . . . . . 430-438</b>														
	1981	71.3	3.7	0.3	0.3	0.9	2.6	8.4	24.9	62.9	206.3	715.6	2,126.8	38.1
	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
<b>Accidents and adverse effects . . . . . E800-E949</b>														
	1981	43.9	27.3	23.6	14.2	56.0	45.1	35.7	37.7	40.4	54.3	108.2	273.3	39.8
	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
<b>Motor vehicle accidents . . . . . E810-E825</b>														
	1981	22.4	6.1	7.8	7.5	41.2	28.6	20.2	17.8	17.3	19.4	27.3	25.8	21.8
	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
<b>All other accidents and adverse effects . . . . . E800-E807,E826-E949</b>														
	1981	21.5	21.2	15.8	6.7	14.8	16.4	15.5	19.8	23.0	34.9	81.0	247.6	18.0
	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
<b>Chronic obstructive pulmonary diseases and allied conditions . . . . . 490-496</b>														
	1981	25.7	1.7	0.3	0.3	0.4	0.5	1.7	10.0	43.3	132.6	231.5	274.7	16.3
	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	1981	23.4	22.6	1.8	0.5	0.8	1.5	3.3	7.4	18.4	52.5	209.3	845.8	12.3
		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	1981	15.1	0.2	0.1	0.1	0.4	1.4	3.5	9.6	25.6	61.9	127.7	217.2	9.8
		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	1981	12.8	0.8	0.1	0.0	0.2	3.1	12.2	28.3	39.3	42.4	31.0	20.7	11.4
		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	1981	12.2	-	0.0	-	0.0	0.0	0.2	1.0	4.5	21.4	112.1	608.7	5.2
		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	1981	12.0	...	...	0.5	12.3	16.3	15.9	16.1	16.4	16.2	18.6	17.7	11.5
		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	1981	10.3	6.1	2.6	1.3	14.7	18.5	14.4	11.3	7.1	4.8	5.3	5.3	10.4
		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	1981	9.4	599.7	0.6	0.0	0.0	0.0	-	-	0.0	-	-	0.1	( <sup>3</sup> )
		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	1981	7.5	7.2	0.2	0.1	0.3	0.6	1.3	3.3	8.8	25.3	68.8	172.0	4.5
		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	1981	5.9	248.5	7.6	1.6	1.4	1.3	1.2	1.5	2.0	2.6	4.0	5.0	( <sup>3</sup> )
		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	1981	4.6	8.4	0.7	0.1	0.2	0.5	1.0	2.5	6.3	14.4	37.7	95.1	2.9
		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, 1981**

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All ages	Under 1 year	1-4 years	5-14 years	15-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75-84 years	85 years and over	Not stated
All causes . . . . .	1,977,981	43,305	8,046	10,078	45,109	51,253	58,538	129,233	290,009	464,648	514,649	362,499	614
Shigellosis and amebiasis . . . . . 004,006	27	1	5	1	1	1	1	5	1	5	5	1	-
Certain other intestinal infections . . . . . 007-009	371	131	23	6	7	3	4	14	22	33	69	59	-
Tuberculosis . . . . . 010-018	1,937	4	4	3	16	68	124	222	371	476	446	203	-
Tuberculosis of respiratory system . . . . . 010-012	1,586	1	-	-	8	44	102	175	314	402	371	169	-
Other tuberculosis . . . . . 013-018	351	3	4	3	8	24	22	47	57	74	75	34	-
Whooping cough . . . . . 033	6	5	1	-	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas . . . . . 034-035	13	-	1	-	-	-	3	-	1	1	6	1	-
Meningococcal infection . . . . . 036	459	125	101	31	44	26	19	31	28	25	22	7	-
Septicemia . . . . . 038	10,443	301	94	28	79	193	259	566	1,377	2,284	3,017	2,241	4
Acute poliomyelitis . . . . . 045	-	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . . 055	2	-	-	-	1	-	-	1	-	-	-	-	-
Viral hepatitis . . . . . 070	862	10	7	11	83	102	80	126	163	152	95	32	1
Syphilis . . . . . 090-097	136	6	-	-	2	5	3	9	15	40	42	14	-
All other infectious and parasitic diseases . . . . . 001-003, 005,020-032,037,039-041,046-054, 056-066,071-088,098-139	4,258	184	89	112	159	258	272	429	732	876	722	425	-
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	422,094	91	654	1,396	2,382	5,055	12,490	40,140	95,370	129,546	97,789	37,129	52
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	8,506	1	-	9	24	62	246	1,128	2,542	2,621	1,317	556	-
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	111,297	10	30	20	149	636	2,090	7,994	22,192	34,640	30,499	13,026	11
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	111,296	6	2	10	53	272	2,511	12,768	32,012	39,004	20,215	4,425	18
Malignant neoplasm of breast . . . . . 174-175	36,737	1	1	1	16	650	2,351	5,623	9,304	9,477	6,442	2,867	4
Malignant neoplasms of genital organs . . . . . 179-187	46,732	2	5	13	181	597	1,114	3,062	7,883	13,843	13,942	6,087	3
Malignant neoplasms of urinary organs . . . . . 188-189	17,999	4	32	41	32	101	305	1,168	3,292	5,443	5,219	2,360	2
Malignant neoplasms of all other and unspecified sites . . . . . 170-173,190-199	51,701	45	323	593	876	1,429	2,342	5,441	11,276	14,242	10,707	4,421	6
Leukemia . . . . . 204-208	16,273	18	233	579	618	662	697	1,146	2,509	4,030	4,060	1,717	4
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	21,553	4	28	130	433	646	834	1,810	4,360	6,246	5,388	1,670	4
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	6,235	54	48	92	116	170	261	486	987	1,620	1,653	746	2
Diabetes mellitus . . . . . 250	34,642	6	8	32	149	554	916	2,167	5,620	9,841	10,221	5,120	8
Nutritional deficiencies . . . . . 260-269	2,331	28	10	4	6	14	34	48	147	366	681	991	2
Anemias . . . . . 280-285	3,300	25	48	75	121	116	128	144	275	642	911	815	-
Meningitis . . . . . 320-322	1,405	422	165	48	39	68	53	102	162	147	130	68	1
Major cardiovascular diseases . . . . . 390-448	972,992	916	393	430	1,540	4,501	14,127	46,963	124,110	231,225	303,032	245,581	174
Diseases of heart . . . . . 390-398,402,404-429	753,884	763	338	323	1,079	3,257	11,428	40,039	105,615	186,951	228,141	175,804	146
Rheumatic fever and rheumatic heart disease . . . . . 390-398	7,378	7	1	19	50	165	310	704	1,531	2,345	1,676	570	-
Hypertensive heart disease . . . . . 402	20,793	-	-	3	14	129	474	1,537	3,436	5,279	5,954	3,963	4
Hypertensive heart and renal disease . . . . . 404	3,347	-	1	-	5	23	35	89	266	694	1,182	1,051	1

Ischemic heart disease . . . . . 410-414	555,158	26	9	42	144	1,238	7,462	28,948	78,950	141,845	170,059	126,330	105
Acute myocardial infarction . . . . . 410	292,504	14	4	19	104	813	4,994	19,430	51,223	86,311	85,642	43,902	48
Other acute and subacute forms of ischemic heart disease . . . . . 411	4,549	2	-	-	4	27	142	427	973	1,207	1,078	689	-
Angina pectoris . . . . . 413	569	-	-	-	-	-	12	36	69	135	196	121	-
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . . 412,414	257,536	10	5	23	36	398	2,314	9,055	26,685	54,192	83,143	81,618	57
Other diseases of endocardium . . . . . 424	7,346	14	7	15	42	97	146	383	915	1,912	2,403	1,410	2
All other forms of heart disease . . . . . 415-423,425-429	159,862	716	320	244	824	1,605	3,001	8,378	20,517	34,876	46,867	42,480	34
Hypertension with or without renal disease . . . . . 401,403	7,587	3	1	1	13	63	139	383	895	1,694	2,410	1,985	-
Cerebrovascular diseases . . . . . 430-438	163,504	132	44	92	369	1,014	2,231	5,600	13,799	32,799	57,277	50,129	18
Intracerebral and other intracranial hemorrhage . . . . . 431-432	20,188	86	13	45	140	334	795	1,887	3,394	4,952	5,548	2,991	3
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . . 434.0,434.9	31,013	14	3	7	23	51	136	552	1,950	5,957	11,642	10,676	2
Cerebral embolism . . . . . 434.1	806	-	-	-	1	6	8	27	103	222	275	164	-
All other and late effects of cerebrovascular diseases . . . . . 430,433,435-438	111,497	32	28	40	205	623	1,292	3,134	8,352	21,668	39,812	36,298	13
Atherosclerosis . . . . . 440	28,004	-	2	-	2	5	59	217	989	3,398	8,976	14,346	10
Other diseases of arteries, arterioles, and capillaries . . . . . 441-448	20,013	18	8	14	77	162	270	724	2,812	6,383	6,228	3,317	-
Acute bronchitis and bronchiolitis . . . . . 466	573	86	22	10	5	7	13	20	51	88	133	138	-
Pneumonia and influenza . . . . . 480-487	53,731	809	240	161	327	571	864	1,677	4,033	8,349	16,751	19,935	14
Pneumonia . . . . . 480-486	50,725	796	232	149	309	540	845	1,629	3,886	7,950	15,812	18,563	14
Influenza . . . . . 487	3,006	13	8	12	18	31	19	48	147	399	939	1,372	-
Chronic obstructive pulmonary diseases and allied conditions . . . . . 490-496	58,832	61	43	97	149	213	440	2,246	9,491	21,084	18,527	6,474	7
Bronchitis, chronic and unspecified . . . . . 490-491	3,685	44	24	14	14	14	27	118	553	1,147	1,101	629	-
Emphysema . . . . . 492	13,369	2	1	1	6	14	84	540	2,319	5,187	4,043	1,171	1
Asthma . . . . . 493	3,054	3	12	72	112	155	178	308	607	803	575	229	-
Other chronic obstructive pulmonary diseases and allied conditions . . . . . 494-496	38,724	12	6	10	17	30	151	1,280	6,012	13,947	12,808	4,445	6
Ulcer of stomach and duodenum . . . . . 531-533	6,489	14	5	5	23	63	134	354	894	1,586	1,984	1,426	1
Appendicitis . . . . . 540-543	589	3	5	17	22	21	28	37	84	162	133	77	-
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . . 550-553,560	5,282	126	30	29	29	39	76	198	401	1,040	1,717	1,597	-
Chronic liver disease and cirrhosis . . . . . 571	29,308	28	12	14	101	1,190	3,232	6,387	8,626	6,742	2,478	489	9
Cholelithiasis and other disorders of gallbladder . . . . . 574-575	3,084	1	-	3	10	19	37	95	295	698	1,046	879	1
Nephritis, nephrotic syndrome, and nephrosis . . . . . 580-589	17,277	258	26	36	111	227	357	739	1,935	4,027	5,505	4,053	3
Acute glomerulonephritis and nephrotic syndrome . . . . . 580-581	302	9	6	4	3	5	10	10	30	81	89	55	-
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . . 582-583,587	2,055	5	2	5	27	47	64	109	222	456	694	423	1
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . . 584-586,588-589	14,920	244	18	27	81	175	283	620	1,683	3,490	4,722	3,575	2

Table 5. Deaths from 72 selected causes by age: United States, 1981—Con.

<i>Cause of death (Ninth Revision International Classification of Diseases, 1975)</i>	<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>
Infections of kidney . . . . . 590	2,305	3	1	1	10	23	32	81	175	391	889	699	-
Hyperplasia of prostate . . . . . 600	693	-	-	-	-	-	-	1	25	126	279	261	1
Complications of pregnancy, childbirth, and the puerperium . . . . . 630-676	309	...	...	1	119	140	48	1	...	...	...	...	...
Pregnancy with abortive outcome . . . . . 630-638	47	...	...	-	17	23	7	-	...	...	...	...	...
Other complications of pregnancy, childbirth, and the puerperium . . . . . 640-676	262	...	...	1	102	117	41	1	...	...	...	...	...
Congenital anomalies . . . . . 740-759	13,527	8,914	1,018	542	594	495	325	339	431	420	319	119	11
Certain conditions originating in the perinatal period . . . . . 760-779	21,626	21,510	77	17	6	2	-	-	3	-	-	2	9
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . . 767-769	6,677	6,642	20	8	4	1	-	-	2	-	-	-	-
Other conditions originating in the perinatal period . . . . . 760-766,770-779	14,949	14,868	57	9	2	1	-	-	1	-	-	2	9
Symptoms, signs, and ill-defined conditions . . . . . 780-799	29,472	5,954	280	160	916	1,501	1,256	2,045	3,502	4,932	4,897	3,966	63
All other diseases . . . . . Residual	117,795	1,949	1,062	1,172	2,365	3,754	4,930	8,456	16,264	25,479	30,430	21,895	39
Accidents and adverse effects . . . . . E800-E949	100,704	981	3,149	4,866	23,582	17,496	9,432	8,486	8,853	8,639	8,662	6,442	116
Motor vehicle accidents . . . . . E810-E825	51,385	220	1,036	2,575	17,363	11,116	5,331	4,021	3,797	3,090	2,182	607	47
All other accidents and adverse effects . . . . . E800-E807,E826-E949	49,319	761	2,113	2,291	6,219	6,380	4,101	4,465	5,056	5,549	6,480	5,835	69
Suicide . . . . . E950-E959	27,596	...	...	167	5,161	6,343	4,207	3,629	3,589	2,574	1,487	417	22
Homicide and legal intervention . . . . . E960-E978	23,646	218	341	440	6,172	7,179	3,817	2,548	1,561	765	421	126	58
All other external causes . . . . . E980-E999	3,630	81	84	71	662	836	536	441	415	267	150	71	16

**Table 6. Death rates for 72 selected causes by age: United States, 1981**

[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 . . . . .	862.4	1,207.3	60.2	29.4	107.1	132.1	221.3	573.5	1,322.1	2,922.3	6,429.9	15,379.7
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	0.1	0.0
Certain other intestinal infections . . . . . 007-009	0.2	3.7	0.2	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.9	2.5
Tuberculosis . . . . . 010-018	0.8	0.1	0.0	0.0	0.0	0.2	0.5	1.0	1.7	3.0	5.6	8.6
Tuberculosis of respiratory system . . . . . 010-012	0.7	0.0	-	-	0.0	0.1	0.4	0.8	1.4	2.5	4.6	7.2
Other tuberculosis . . . . . 013-018	0.2	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.3	0.5	0.9	1.4
Whooping cough . . . . . 033	0.0	0.1	0.0	-	-	-	-	-	-	-	-	-
Streptococcal sore throat, scarlatina, and erysipelas . . . . . 034-035	0.0	-	0.0	-	-	-	0.0	-	0.0	0.0	0.1	0.0
Meningococcal infection . . . . . 036	0.2	3.5	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.3
Septicemia . . . . . 038	4.6	8.4	0.7	0.1	0.2	0.5	1.0	2.5	6.3	14.4	37.7	95.1
Acute poliomyelitis . . . . . 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . . 055	0.0	-	-	-	0.0	-	-	0.0	-	-	-	-
Viral hepatitis . . . . . 070	0.4	0.3	0.1	0.0	0.2	0.3	0.3	0.6	0.7	1.0	1.2	1.4
Syphilis . . . . . 090-097	0.1	0.2	-	-	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.6
All other infectious and parasitic diseases . . . . . 001-003, 005,020-032,037,039-041,046-054, 056-066,071-088,098-139	1.9	5.1	0.7	0.3	0.4	0.7	1.0	1.9	3.3	5.5	9.0	18.0
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	184.0	2.5	4.9	4.1	5.7	13.0	47.2	178.1	434.8	814.8	1,221.8	1,575.3
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	3.7	0.0	-	0.0	0.1	0.2	0.9	5.0	11.6	16.5	16.5	23.6
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	48.5	0.3	0.2	0.1	0.4	1.6	7.9	35.5	101.2	217.9	381.0	552.7
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	48.5	0.2	0.0	0.0	0.1	0.7	9.5	56.7	145.9	245.3	252.6	187.7
Malignant neoplasm of breast . . . . . 174-175	16.0	0.0	0.0	0.0	0.0	1.7	8.9	25.0	42.4	59.6	80.5	121.6
Malignant neoplasms of genital organs . . . . . 179-187	20.4	0.1	0.0	0.0	0.4	1.5	4.2	13.6	35.9	87.1	174.2	258.3
Malignant neoplasms of urinary organs . . . . . 188-189	7.8	0.1	0.2	0.1	0.1	0.3	1.2	5.2	15.0	34.2	65.2	100.1
Malignant neoplasms of all other and unspecified sites . . . . . 170-173,190-199	22.5	1.3	2.4	1.7	2.1	3.7	8.9	24.1	51.4	89.6	133.8	187.6
Leukemia . . . . . 204-208	7.1	0.5	1.7	1.7	1.5	1.7	2.6	5.1	11.4	25.3	50.7	72.8
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	9.4	0.1	0.2	0.4	1.0	1.7	3.2	8.0	19.9	39.3	67.3	70.9
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	2.7	1.5	0.4	0.3	0.3	0.4	1.0	2.2	4.5	10.2	20.7	31.7
Diabetes mellitus . . . . . 250	15.1	0.2	0.1	0.1	0.4	1.4	3.5	9.6	25.6	61.9	127.7	217.2
Nutritional deficiencies . . . . . 260-269	1.0	0.8	0.1	0.0	0.0	0.0	0.1	0.2	0.7	2.3	8.5	42.0
Anemias . . . . . 280-285	1.4	0.7	0.4	0.2	0.3	0.3	0.5	0.6	1.3	4.0	11.4	34.6
Meningitis . . . . . 320-322	0.6	11.8	1.2	0.1	0.1	0.2	0.2	0.5	0.7	0.9	1.6	2.9
Major cardiovascular diseases . . . . . 390-448	424.2	25.5	2.9	1.3	3.7	11.6	53.4	208.4	565.8	1,454.2	3,786.0	10,419.2
Diseases of heart . . . . . 390-398,402,404-429	328.7	21.3	2.5	0.9	2.6	8.4	43.2	177.7	481.5	1,175.8	2,850.3	7,458.8
Rheumatic fever and rheumatic heart disease . . . . . 390-398	3.2	0.2	0.0	0.1	0.1	0.4	1.2	3.1	7.0	14.7	20.9	24.2
Hypertensive heart disease . . . . . 402	9.1	-	-	0.0	0.0	0.3	1.8	6.8	15.7	33.2	74.4	168.1
Hypertensive heart and renal disease . . . . . 404	1.5	-	0.0	-	0.0	0.1	0.1	0.4	1.2	4.4	14.8	44.6
Ischemic heart disease . . . . . 410-414	242.1	0.7	0.1	0.1	0.3	3.2	28.2	128.5	359.9	892.1	2,124.7	5,359.8
Acute myocardial infarction . . . . . 410	127.5	0.4	0.0	0.1	0.2	2.1	18.9	86.2	233.5	542.8	1,070.0	1,862.6
Other acute and subacute forms of ischemic heart disease . . . . . 411	2.0	0.1	-	-	0.0	0.1	0.5	1.9	4.4	7.6	13.5	29.2

<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, 1981—Con.**

[Rates per 100,000 population in specified group]

<i>Cause of death (Ninth Revision International Classification of Diseases, 1975)</i>	<i>All ages<sup>1</sup></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>	
<b>Major cardiovascular diseases—Con.</b>													
<b>Diseases of heart—Con.</b>													
<b>Ischemic heart disease—Con.</b>													
Angina pectoris . . . . .	413	0.2	-	-	-	-	-	0.0	0.2	0.3	0.8	2.4	5.1
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412,414	112.3	0.3	0.0	0.1	0.1	1.0	8.7	40.2	121.6	340.8	1,038.8	3,462.8
Other diseases of endocardium . . . . .	424	3.2	0.4	0.1	0.0	0.1	0.2	0.6	1.7	4.2	12.0	30.0	59.8
All other forms of heart disease . . . . .	415-423,425-429	69.7	20.0	2.4	0.7	2.0	4.1	11.3	37.2	93.5	219.3	585.5	1,802.3
Hypertension with or without renal disease . . . . .	401,403	3.3	0.1	0.0	0.0	0.0	0.2	0.5	1.7	4.1	10.7	30.1	84.2
<b>Cerebrovascular diseases . . . . . 430-438</b>													
Intracerebral and other intracranial hemorrhage . . . . .	431-432	8.8	2.4	0.1	0.1	0.3	0.9	3.0	8.4	15.5	31.1	69.3	126.9
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0,434.9	13.5	0.4	0.0	0.0	0.1	0.1	0.5	2.4	8.9	37.5	145.5	452.9
Cerebral embolism . . . . .	434.1	0.4	-	-	-	0.0	0.0	0.0	0.1	0.5	1.4	3.4	7.0
All other and late effects of cerebrovascular diseases . . . . .	430,433,435-438	48.6	0.9	0.2	0.1	0.5	1.6	4.9	13.9	38.1	136.3	497.4	1,540.0
Atherosclerosis . . . . .	440	12.2	-	0.0	-	0.0	0.0	0.2	1.0	4.5	21.4	112.1	608.7
Other diseases of arteries, arterioles, and capillaries . . . . .	441-448	8.7	0.5	0.1	0.0	0.2	0.4	1.0	3.2	12.8	40.1	77.8	140.7
Acute bronchitis and bronchiolitis . . . . .	466	0.2	2.4	0.2	0.0	0.0	0.0	0.0	0.1	0.2	0.6	1.7	5.9
<b>Pneumonia and influenza . . . . . 480-487</b>													
Pneumonia . . . . .	480-486	22.1	22.2	1.7	0.4	0.7	1.4	3.2	7.2	17.7	50.0	197.6	787.6
Influenza . . . . .	487	1.3	0.4	0.1	0.0	0.0	0.1	0.1	0.2	0.7	2.5	11.7	58.2
<b>Chronic obstructive pulmonary diseases and allied conditions . . . . . 490-496</b>													
Bronchitis, chronic and unspecified . . . . .	490-491	1.6	1.2	0.2	0.0	0.0	0.0	0.1	0.5	2.5	7.2	13.8	26.7
Emphysema . . . . .	492	5.8	0.1	0.0	0.0	0.0	0.0	0.3	2.4	10.6	32.6	50.5	49.7
Asthma . . . . .	493	1.3	0.1	0.1	0.2	0.3	0.4	0.7	1.4	2.8	5.1	7.2	9.7
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494-496	16.9	0.3	0.0	0.0	0.0	0.1	0.6	5.7	27.4	87.7	160.0	188.6
Ulcer of stomach and duodenum . . . . .	531-533	2.8	0.4	0.0	0.0	0.1	0.2	0.5	1.6	4.1	10.0	24.8	60.5
Appendicitis . . . . .	540-543	0.3	0.1	0.0	0.0	0.1	0.1	0.1	0.2	0.4	1.0	1.7	3.3
<b>Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . . 550-553,560</b>													
Chronic liver disease and cirrhosis . . . . .	571	12.8	0.8	0.1	0.0	0.2	3.1	12.2	28.3	39.3	42.4	31.0	20.7
Cholelithiasis and other disorders of gallbladder . . . . .	574-575	1.3	0.0	-	0.0	0.0	0.0	0.1	0.4	1.3	4.4	13.1	37.3
<b>Nephritis, nephrotic syndrome, and nephrosis . . . . . 580-589</b>													
Acute glomerulonephritis and nephrotic syndrome . . . . .	580-581	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	1.1	2.3
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	582-583,587	0.9	0.1	0.0	0.0	0.1	0.1	0.2	0.5	1.0	2.9	8.7	17.9
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584-586,588-589	6.5	6.8	0.1	0.1	0.2	0.5	1.1	2.8	7.7	21.9	59.0	151.7
Infections of kidney . . . . .	590	1.0	0.1	0.0	0.0	0.0	0.1	0.1	0.4	0.8	2.5	11.1	29.7
Hyperplasia of prostate . . . . .	600	0.3	-	-	-	-	-	-	0.0	0.1	0.8	3.5	11.1
<b>Complications of pregnancy, childbirth, and the puerperium . . . . . 630-676</b>													
Pregnancy with abortive outcome . . . . .	630-638	0.0	...	...	0.0	0.3	0.4	0.2	0.0	...	...	...	...

Other complications of pregnancy, childbirth, and the puerperium . . . . .	640-676	0.1	...	...	0.0	0.2	0.3	0.2	0.0	...	...	...	...
Congenital anomalies . . . . .	740-759	5.9	248.5	7.6	1.6	1.4	1.3	1.2	1.5	2.0	2.6	4.0	5.0
Certain conditions originating in the perinatal period . . . . .	760-779	9.4	599.7	0.6	0.0	0.0	0.0	-	-	0.0	-	-	0.1
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767-769	2.9	185.2	0.1	0.0	0.0	0.0	-	-	0.0	-	-	-
Other conditions originating in the perinatal period . . . . .	760-766,770-779	6.5	414.5	0.4	0.0	0.0	0.0	-	-	0.0	-	-	0.1
Symptoms, signs, and ill-defined conditions . . . . .	780-799	12.9	166.0	2.1	0.5	2.2	3.9	4.7	9.1	16.0	31.0	61.2	168.3
All other diseases . . . . .	Residual	51.4	54.3	8.0	3.4	5.6	9.7	18.6	37.5	74.1	160.2	380.2	928.9
Accidents and adverse effects . . . . .	E800-E949	43.9	27.3	23.6	14.2	56.0	45.1	35.7	37.7	40.4	54.3	108.2	273.3
Motor vehicle accidents . . . . .	E810-E825	22.4	6.1	7.8	7.5	41.2	28.6	20.2	17.8	17.3	19.4	27.3	25.8
All other accidents and adverse effects . . . . .	E800-E807,E826-E949	21.5	21.2	15.8	6.7	14.8	16.4	15.5	19.8	23.0	34.9	81.0	247.6
Suicide . . . . .	E950-E959	12.0	...	...	0.5	12.3	16.3	15.9	16.1	16.4	16.2	18.6	17.7
Homicide and legal intervention . . . . .	E960-E978	10.3	6.1	2.6	1.3	14.7	18.5	14.4	11.3	7.1	4.8	5.3	5.3
All other external causes . . . . .	E980-E999	1.6	2.3	0.6	0.2	1.6	2.2	2.0	2.0	1.9	1.7	1.9	3.0

<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, 1981

Cause of death (Ninth Revision International Classification of Diseases, 1975)	<i>All races</i>						<i>All other</i>					
				<i>White</i>			<i>Total</i>			<i>Black</i>		
	<i>Both sexes</i>	<i>Male</i>	<i>Female</i>	<i>Both sexes</i>	<i>Male</i>	<i>Female</i>	<i>Both sexes</i>	<i>Male</i>	<i>Female</i>	<i>Both sexes</i>	<i>Male</i>	<i>Female</i>
All causes . . . . .	1,977,981	1,063,772	914,209	1,731,233	925,490	805,743	246,748	138,282	108,466	228,560	127,296	101,264
Shigellosis and amebiasis . . . . . 004,006	27	16	11	22	13	9	5	3	2	3	2	1
Certain other intestinal infections . . . . . 007-009	371	170	201	290	124	166	81	46	35	75	42	33
Tuberculosis . . . . . 010-018	1,937	1,299	638	1,211	797	414	726	502	224	657	455	202
Tuberculosis of respiratory system . . . . . 010-012	1,586	1,118	468	1,012	702	310	574	416	158	522	376	146
Other tuberculosis . . . . . 013-018	351	181	170	199	95	104	152	86	66	135	79	56
Whooping cough . . . . . 033	6	2	4	5	2	3	1	-	1	1	-	1
Streptococcal sore throat, scarlatina, and erysipelas . . . . . 034-035	13	6	7	13	6	7	-	-	-	-	-	-
Meningococcal infection . . . . . 036	459	233	226	380	191	189	79	42	37	75	40	35
Septicemia . . . . . 038	10,443	5,047	5,396	8,311	4,003	4,308	2,132	1,044	1,088	2,028	987	1,041
Acute poliomyelitis . . . . . 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . . 055	2	-	2	2	-	2	-	-	-	-	-	-
Viral hepatitis . . . . . 070	862	466	396	694	388	306	168	78	90	139	58	81
Syphilis . . . . . 090-097	136	76	60	88	47	41	48	29	19	47	28	19
All other infectious and parasitic diseases . . . . . 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	4,258	2,206	2,052	3,469	1,804	1,665	789	402	387	697	348	349
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	422,094	227,885	194,209	372,674	199,370	173,304	49,420	28,515	20,905	45,827	26,477	19,350
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	8,506	5,831	2,675	7,173	4,824	2,349	1,333	1,007	326	1,216	920	296
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	111,297	58,437	52,860	97,324	50,599	46,725	13,973	7,838	6,135	12,692	7,063	5,629
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	111,296	80,458	30,838	98,468	70,682	27,786	12,828	9,776	3,052	12,058	9,220	2,838
Malignant neoplasm of breast . . . . . 174-175	36,737	254	36,483	33,124	218	32,906	3,613	36	3,577	3,393	35	3,358
Malignant neoplasms of genital organs . . . . . 179-187	46,732	24,014	22,718	39,817	19,995	19,822	6,915	4,019	2,896	6,567	3,890	2,677
Malignant neoplasms of urinary organs . . . . . 188-189	17,999	11,705	6,294	16,419	10,749	5,670	1,580	956	624	1,467	875	592
Malignant neoplasms of all other and unspecified sites . . . . . 170-173,190-199	51,701	27,086	24,615	46,240	24,164	22,076	5,461	2,922	2,539	5,041	2,702	2,339
Leukemia . . . . . 204-208	16,273	9,078	7,195	14,786	8,276	6,510	1,487	802	685	1,337	709	628
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	21,553	11,022	10,531	19,323	9,863	9,460	2,230	1,159	1,071	2,056	1,063	993
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	6,235	2,934	3,301	5,508	2,625	2,883	727	309	418	665	273	392
Diabetes mellitus . . . . . 250	34,642	14,211	20,431	28,750	12,066	16,684	5,892	2,145	3,747	5,461	1,925	3,536
Nutritional deficiencies . . . . . 260-269	2,331	941	1,390	1,989	786	1,203	342	155	187	310	137	173
Anemias . . . . . 280-285	3,300	1,519	1,781	2,658	1,193	1,465	642	326	316	615	308	307
Meningitis . . . . . 320-322	1,405	776	629	987	547	440	418	229	189	380	204	176



Major cardiovascular diseases . . . . .	390-448	972,992	494,204	478,788	870,306	442,066	428,240	102,686	52,138	50,548	96,293	48,315	47,978
Diseases of heart . . . . .	390-398, 402,404-429	753,884	400,535	353,349	677,449	360,386	317,063	76,435	40,149	36,286	71,697	37,188	34,509
Rheumatic fever and rheumatic heart disease . . . . .	390-398	7,378	2,469	4,909	6,798	2,254	4,544	580	215	365	479	173	306
Hypertensive heart disease . . . . .	402	20,793	8,994	11,799	15,474	6,462	9,012	5,319	2,532	2,787	5,160	2,444	2,716
Hypertensive heart and renal disease . . . . .	404	3,347	1,351	1,996	2,642	1,059	1,583	705	292	413	683	280	403
Ischemic heart disease . . . . .	410-414	555,158	303,929	251,229	509,351	279,602	229,749	45,807	24,327	21,480	42,481	22,184	20,297
Acute myocardial infarction . . . . .	410	292,504	172,898	119,606	269,389	160,102	109,287	23,115	12,796	10,319	21,363	11,638	9,725
Other acute and subacute forms of ischemic heart disease . . . . .	411	4,549	2,801	1,748	3,835	2,383	1,452	714	418	296	673	394	279
Angina pectoris . . . . .	413	569	301	268	515	271	244	54	30	24	51	27	24
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412,414	257,536	127,929	129,607	235,612	116,846	118,766	21,924	11,083	10,841	20,394	10,125	10,269
Other diseases of endocardium . . . . .	424	7,346	3,654	3,692	6,648	3,291	3,357	698	363	335	632	326	306
All other forms of heart disease . . . . .	415-423,425-429	159,862	80,138	79,724	136,536	67,718	68,818	23,326	12,420	10,906	22,262	11,781	10,481
Hypertension with or without renal disease . . . . .	401,403	7,587	3,477	4,110	5,894	2,718	3,176	1,693	759	934	1,633	727	906
Cerebrovascular diseases . . . . .	430-438	163,504	66,429	97,075	142,765	57,000	85,765	20,739	9,429	11,310	19,416	8,760	10,656
Intracerebral and other intracranial hemorrhage . . . . .	431-432	20,188	9,037	11,151	16,824	7,293	9,531	3,364	1,744	1,620	3,053	1,579	1,474
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0,434.9	31,013	12,346	18,667	27,795	10,907	16,888	3,218	1,439	1,779	3,018	1,328	1,690
Cerebral embolism . . . . .	434.1	806	328	478	739	294	445	67	34	33	66	33	33
All other and late effects of cerebrovascular diseases . . . . .	430,433,435-438	111,497	44,718	66,779	97,407	38,506	58,901	14,090	6,212	7,878	13,279	5,820	7,459
Atherosclerosis . . . . .	440	28,004	10,969	17,035	25,824	10,028	15,796	2,180	941	1,239	2,062	880	1,182
Other diseases of arteries, arterioles, and capillaries . . . . .	441-448	20,013	12,794	7,219	18,374	11,934	6,440	1,639	860	779	1,485	760	725
Acute bronchitis and bronchiolitis . . . . .	466	573	277	296	507	242	265	66	35	31	56	28	28
Pneumonia and influenza . . . . .	480-487	53,731	27,059	26,672	47,919	23,531	24,388	5,812	3,528	2,284	5,276	3,201	2,075
Pneumonia . . . . .	480-486	50,725	25,954	24,771	45,079	22,498	22,581	5,646	3,456	2,190	5,130	3,137	1,993
Influenza . . . . .	487	3,006	1,105	1,901	2,840	1,033	1,807	166	72	94	146	64	82
Chronic obstructive pulmonary diseases and allied conditions . . . . .	490-496	58,832	39,773	19,059	54,982	36,991	17,991	3,850	2,782	1,068	3,517	2,545	972
Bronchitis, chronic and unspecified . . . . .	490-491	3,685	2,344	1,341	3,486	2,193	1,293	199	151	48	178	133	45
Emphysema . . . . .	492	13,369	9,592	3,777	12,683	9,026	3,657	686	566	120	643	531	112
Asthma . . . . .	493	3,054	1,287	1,767	2,426	977	1,449	628	310	318	576	281	295
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494-496	38,724	26,550	12,174	36,387	24,795	11,592	2,337	1,755	582	2,120	1,600	520
Ulcer of stomach and duodenum . . . . .	531-533	6,489	3,432	3,057	5,834	3,035	2,799	655	397	258	593	357	236
Appendicitis . . . . .	540-543	589	329	260	466	260	206	123	69	54	117	64	53
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	550-553,560	5,282	2,079	3,203	4,605	1,734	2,871	677	345	332	643	324	319
Chronic liver disease and cirrhosis . . . . .	571	29,308	18,894	10,414	24,465	15,868	8,597	4,843	3,026	1,817	4,349	2,740	1,609
Cholelithiasis and other disorders of gallbladder . . . . .	574-575	3,084	1,345	1,739	2,811	1,255	1,556	273	90	183	215	65	150

**Table 7. Deaths from 72 selected causes by race and sex: United States, 1981—Con.**

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races						All other					
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Nephritis, nephrotic syndrome, and nephrosis . . . . . 580-589	17,277	8,720	8,557	13,828	7,018	6,810	3,449	1,702	1,747	3,262	1,609	1,653
Acute glomerulonephritis and nephrotic syndrome . . . . . 580-581	302	142	160	251	119	132	51	23	28	47	22	25
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . . 582-583,587	2,055	963	1,092	1,670	785	885	385	178	207	359	166	193
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . . 584-586,588-589	14,920	7,615	7,305	11,907	6,114	5,793	3,013	1,501	1,512	2,856	1,421	1,435
Infections of kidney . . . . . 590	2,305	838	1,467	2,022	741	1,281	283	97	186	267	93	174
Hyperplasia of prostate . . . . . 600	693	693	...	600	600	...	93	93	...	88	88	...
Complications of pregnancy, childbirth, and the puerperium . . . . . 630-676	309	...	309	184	...	184	125	...	125	120	...	120
Pregnancy with abortive outcome . . . . . 630-638	47	...	47	24	...	24	23	...	23	22	...	22
Other complications of pregnancy, childbirth, and the puerperium . . . . . 640-676	262	...	262	160	...	160	102	...	102	98	...	98
Congenital anomalies . . . . . 740-759	13,527	7,128	6,399	11,145	5,906	5,239	2,382	1,222	1,160	2,064	1,064	1,000
Certain conditions originating in the perinatal period . . . . . 760-779	21,626	12,302	9,324	14,551	8,380	6,171	7,075	3,922	3,153	6,658	3,688	2,970
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . . 767-769	6,677	4,009	2,668	4,834	2,920	1,914	1,843	1,089	754	1,712	1,011	701
Other conditions originating in the perinatal period . . . . . 760-766,770-779	14,949	8,293	6,656	9,717	5,460	4,257	5,232	2,833	2,399	4,946	2,677	2,269
Symptoms, signs, and ill-defined conditions . . . . . 780-799	29,472	17,127	12,345	22,036	12,786	9,250	7,436	4,341	3,095	6,886	3,982	2,904
All other diseases . . . . . Residual	117,795	58,974	58,821	100,230	49,610	50,620	17,565	9,364	8,201	16,274	8,625	7,649
Accidents and adverse effects . . . . . E800-E949	100,704	70,881	29,823	86,432	60,491	25,941	14,272	10,390	3,882	12,310	9,014	3,296
Motor vehicle accidents . . . . . E810-E825	51,385	37,533	13,852	45,424	33,067	12,357	5,961	4,466	1,495	4,809	3,702	1,107
All other accidents and adverse effects . . . . . E800-E807,E826-E949	49,319	33,348	15,971	41,008	27,424	13,584	8,311	5,924	2,387	7,501	5,312	2,189
Suicide . . . . . E950-E959	27,596	20,809	6,787	25,452	19,166	6,286	2,144	1,643	501	1,658	1,315	343
Homicide and legal intervention . . . . . E960-E978	23,646	18,572	5,074	13,066	9,941	3,125	10,580	8,631	1,949	10,137	8,312	1,825
All other external causes . . . . . E980-E999	3,630	2,549	1,081	2,741	1,907	834	889	642	247	797	583	214

**Table 8. Death rates for 72 selected causes by race and sex: United States, 1981**

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races						All other					
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes . . . . .	862.4	954.5	775.4	880.3	965.1	799.6	755.0	889.4	633.0	841.7	991.6	707.3
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	0.2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.3	0.2
Tuberculosis . . . . . 010-018	0.8	1.2	0.5	0.6	0.8	0.4	2.2	3.2	1.3	2.4	3.5	1.4
Tuberculosis of respiratory system . . . . . 010-012	0.7	1.0	0.4	0.5	0.7	0.3	1.8	2.7	0.9	1.9	2.9	1.0
Other tuberculosis . . . . . 013-018	0.2	0.2	0.1	0.1	0.1	0.1	0.5	0.6	0.4	0.5	0.6	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	-	-	-	-	-	-
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	4.6	4.5	4.6	4.2	4.2	4.3	6.5	6.7	6.3	7.5	7.7	7.3
Acute poliomyelitis . . . . . 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . . 055	0.0	-	0.0	0.0	-	0.0	-	-	-	-	-	-
Viral hepatitis . . . . . 070	0.4	0.4	0.3	0.4	0.4	0.3	0.5	0.5	0.5	0.5	0.5	0.6
Syphilis . . . . . 090-097	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.2	0.2	0.1
All other infectious and parasitic diseases . . . . . 001-003, 005,020-032,037,039-041,046-054,056-066,071-088,098-139	1.9	2.0	1.7	1.8	1.9	1.7	2.4	2.6	2.3	2.6	2.7	2.4
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	184.0	204.5	164.7	189.5	207.9	172.0	151.2	183.4	122.0	168.8	206.3	135.2
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	3.7	5.2	2.3	3.6	5.0	2.3	4.1	6.5	1.9	4.5	7.2	2.1
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	48.5	52.4	44.8	49.5	52.8	46.4	42.8	50.4	35.8	46.7	55.0	39.3
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	48.5	72.2	26.2	50.1	73.7	27.6	39.2	62.9	17.8	44.4	71.8	19.8
Malignant neoplasm of breast . . . . . 174-175	16.0	0.2	30.9	16.8	0.2	32.7	11.1	0.2	20.9	12.5	0.3	23.5
Malignant neoplasms of genital organs . . . . . 179-187	20.4	21.5	19.3	20.2	20.9	19.7	21.2	25.8	16.9	24.2	30.3	18.7
Malignant neoplasms of urinary organs . . . . . 188-189	7.8	10.5	5.3	8.3	11.2	5.6	4.8	6.1	3.6	5.4	6.8	4.1
Malignant neoplasms of all other and unspecified sites . . . . . 170-173,190-199	22.5	24.3	20.9	23.5	25.2	21.9	16.7	18.8	14.8	18.6	21.0	16.3
Leukemia . . . . . 204-208	7.1	8.1	6.1	7.5	8.6	6.5	4.5	5.2	4.0	4.9	5.5	4.4
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	9.4	9.9	8.9	9.8	10.3	9.4	6.8	7.5	6.3	7.6	8.3	6.9
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	2.7	2.6	2.8	2.8	2.7	2.9	2.2	2.0	2.4	2.4	2.1	2.7
Diabetes mellitus . . . . . 250	15.1	12.8	17.3	14.6	12.6	16.6	18.0	13.8	21.9	20.1	15.0	24.7
Nutritional deficiencies . . . . . 260-269	1.0	0.8	1.2	1.0	0.8	1.2	1.0	1.0	1.1	1.1	1.1	1.2
Anemias . . . . . 280-285	1.4	1.4	1.5	1.4	1.2	1.5	2.0	2.1	1.8	2.3	2.4	2.1
Meningitis . . . . . 320-322	0.6	0.7	0.5	0.5	0.6	0.4	1.3	1.5	1.1	1.4	1.6	1.2
Major cardiovascular diseases . . . . . 390-448	424.2	443.5	406.1	442.5	461.0	425.0	314.2	335.3	295.0	354.6	376.4	335.1
Diseases of heart . . . . . 390-398,402,404-429	328.7	359.4	299.7	344.5	375.8	314.6	233.9	258.2	211.8	264.0	289.7	241.1
Rheumatic fever and rheumatic heart disease . . . . . 390-398	3.2	2.2	4.2	3.5	2.4	4.5	1.8	1.4	2.1	1.8	1.3	2.1
Hypertensive heart disease . . . . . 402	9.1	8.1	10.0	7.9	6.7	8.9	16.3	16.3	16.3	19.0	19.0	19.0
Hypertensive heart and renal disease . . . . . 404	1.5	1.2	1.7	1.3	1.1	1.6	2.2	1.9	2.4	2.5	2.2	2.8
Ischemic heart disease . . . . . 410-414	242.1	272.7	213.1	259.0	291.6	228.0	140.2	156.5	125.4	156.5	172.8	141.8
Acute myocardial infarction . . . . . 410	127.5	155.1	101.4	137.0	167.0	108.5	70.7	82.3	60.2	78.7	90.7	67.9

**Table 8. Death rates for 72 selected causes by race and sex: United States, 1981—Con.**

[Rates per 100,000 population in specified group]

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All other												
	All races			White			Total			Black			
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	
Major cardiovascular diseases—Con.													
Diseases of heart—Con.													
Ischemic heart disease—Con.													
Other acute and subacute forms of ischemic heart disease . . . . .	411	2.0	2.5	1.5	2.0	2.5	1.4	2.2	2.7	1.7	2.5	3.1	1.9
Angina pectoris . . . . .	413	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.2	0.2
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412,414	112.3	114.8	109.9	119.8	121.8	117.9	67.1	71.3	63.3	75.1	78.9	71.7
Other diseases of endocardium . . . . .	424	3.2	3.3	3.1	3.4	3.4	3.3	2.1	2.3	2.0	2.3	2.5	2.1
All other forms of heart disease . . . . .	415-423,425-429	69.7	71.9	67.6	69.4	70.6	68.3	71.4	79.9	63.6	82.0	91.8	73.2
Hypertension with or without renal disease . . . . .	401,403	3.3	3.1	3.5	3.0	2.8	3.2	5.2	4.9	5.5	6.0	5.7	6.3
Cerebrovascular diseases . . . . .	430-438	71.3	59.6	82.3	72.6	59.4	85.1	63.5	60.6	66.0	71.5	68.2	74.4
Intracerebral and other intracranial hemorrhage . . . . .	431-432	8.8	8.1	9.5	8.6	7.6	9.5	10.3	11.2	9.5	11.2	12.3	10.3
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0,434.9	13.5	11.1	15.8	14.1	11.4	16.8	9.8	9.3	10.4	11.1	10.3	11.8
Cerebral embolism . . . . .	434.1	0.4	0.3	0.4	0.4	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2
All other and late effects of cerebrovascular diseases . . . . .	430,433,435-438	48.6	40.1	56.6	49.5	40.2	58.5	43.1	40.0	46.0	48.9	45.3	52.1
Atherosclerosis . . . . .	440	12.2	9.8	14.4	13.1	10.5	15.7	6.7	6.1	7.2	7.6	6.9	8.3
Other diseases of arteries, arterioles, and capillaries . . . . .	441-448	8.7	11.5	6.1	9.3	12.4	6.4	5.0	5.5	4.5	5.5	5.9	5.1
Acute bronchitis and bronchiolitis . . . . .	466	0.2	0.2	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2
Pneumonia and influenza . . . . .	480-487	23.4	24.3	22.6	24.4	24.5	24.2	17.8	22.7	13.3	19.4	24.9	14.5
Pneumonia . . . . .	480-486	22.1	23.3	21.0	22.9	23.5	22.4	17.3	22.2	12.8	18.9	24.4	13.9
Influenza . . . . .	487	1.3	1.0	1.6	1.4	1.1	1.8	0.5	0.5	0.5	0.5	0.5	0.6
Chronic obstructive pulmonary diseases and allied conditions . . . . .													
Bronchitis, chronic and unspecified . . . . .	490-491	1.6	2.1	1.1	1.8	2.3	1.3	0.6	1.0	0.3	0.7	1.0	0.3
Emphysema . . . . .	492	5.8	8.6	3.2	6.4	9.4	3.6	2.1	3.6	0.7	2.4	4.1	0.8
Asthma . . . . .	493	1.3	1.2	1.5	1.2	1.0	1.4	1.9	2.0	1.9	2.1	2.2	2.1
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494-496	16.9	23.8	10.3	18.5	25.9	11.5	7.2	11.3	3.4	7.8	12.5	3.6
Ulcer of stomach and duodenum . . . . .	531-533	2.8	3.1	2.6	3.0	3.2	2.8	2.0	2.6	1.5	2.2	2.8	1.6
Appendicitis . . . . .	540-543	0.3	0.3	0.2	0.2	0.3	0.2	0.4	0.4	0.3	0.4	0.5	0.4
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .													
Chronic liver disease and cirrhosis . . . . .	550-553,560	2.3	1.9	2.7	2.3	1.8	2.8	2.1	2.2	1.9	2.4	2.5	2.2
Cholelithiasis and other disorders of gallbladder . . . . .	571	12.8	17.0	8.8	12.4	16.5	8.5	14.8	19.5	10.6	16.0	21.3	11.2
Nephritis, nephrotic syndrome, and nephrosis . . . . .	574-575	1.3	1.2	1.5	1.4	1.3	1.5	0.8	0.6	1.1	0.8	0.5	1.0
Acute glomerulonephritis and nephrotic syndrome . . . . .	580-581	7.5	7.8	7.3	7.0	7.3	6.8	10.6	10.9	10.2	12.0	12.5	11.5
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	580-581	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	582-583,587	0.9	0.9	0.9	0.8	0.8	0.9	1.2	1.1	1.2	1.3	1.3	1.3
Infections of kidney . . . . .	584-586,588-589	6.5	6.8	6.2	6.1	6.4	5.7	9.2	9.7	8.8	10.5	11.1	10.0
Hyperplasia of prostate . . . . .	590	1.0	0.8	1.2	1.0	0.8	1.3	0.9	0.6	1.1	1.0	0.7	1.2
	600	0.3	0.6	...	0.3	0.6	...	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	...	0.7	0.4	...	0.8
Pregnancy with abortive outcome . . . . .	630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.1	0.1	...	0.2
Other complications of pregnancy, childbirth, and the puerperium . . . . .	640-676	0.1	...	0.2	0.1	...	0.2	0.3	...	0.6	0.4	...	0.7
Congenital anomalies . . . . .	740-759	5.9	6.4	5.4	5.7	6.2	5.2	7.3	7.9	6.8	7.6	8.3	7.0
Certain conditions originating in the perinatal period . . . . .	760-779	9.4	11.0	7.9	7.4	8.7	6.1	21.6	25.2	18.4	24.5	28.7	20.7
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767-769	2.9	3.6	2.3	2.5	3.0	1.9	5.6	7.0	4.4	6.3	7.9	4.9
Other conditions originating in the perinatal period . . . . .	760-766,770-779	6.5	7.4	5.6	4.9	5.7	4.2	16.0	18.2	14.0	18.2	20.9	15.8
Symptoms, signs, and ill-defined conditions . . . . .	780-799	12.9	15.4	10.5	11.2	13.3	9.2	22.8	27.9	18.1	25.4	31.0	20.3
All other diseases . . . . .	Residual	51.4	52.9	49.9	51.0	51.7	50.2	53.7	60.2	47.9	59.9	67.2	53.4
Accidents and adverse effects . . . . .	E800-E949	43.9	63.6	25.3	43.9	63.1	25.7	43.7	66.8	22.7	45.3	70.2	23.0
Motor vehicle accidents . . . . .	E810-E825	22.4	33.7	11.7	23.1	34.5	12.3	18.2	28.7	8.7	17.7	28.8	7.7
All other accidents and adverse effects . . . . .	E800-E807,E826-E949	21.5	29.9	13.5	20.9	28.6	13.5	25.4	38.1	13.9	27.6	41.4	15.3
Suicide . . . . .	E950-E959	12.0	18.7	5.8	12.9	20.0	6.2	6.6	10.6	2.9	6.1	10.2	2.4
Homicide and legal intervention . . . . .	E960-E978	10.3	16.7	4.3	6.6	10.4	3.1	32.4	55.5	11.4	37.3	64.8	12.7
All other external causes . . . . .	E980-E999	1.6	2.3	0.9	1.4	2.0	0.8	2.7	4.1	1.4	2.9	4.5	1.5

**Table 9. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1981**

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

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All other											
	All races			White			Total			Black		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All causes . . . . .	568.2	753.3	420.4	544.6	724.4	401.4	732.6	964.3	549.4	803.9	1,067.7	599.1
Shigellosis and amebiasis . . . . . 004,006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Certain other intestinal infections . . . . . 007-009	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Tuberculosis . . . . . 010-018	0.6	1.0	0.4	0.4	0.6	0.2	2.3	3.7	1.3	2.6	4.1	1.4
Tuberculosis of respiratory system . . . . . 010-012	0.5	0.8	0.3	0.3	0.5	0.1	1.9	3.1	0.9	2.0	3.4	1.0
Other tuberculosis . . . . . 013-018	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.6	0.4	0.5	0.7	0.4
Whooping cough . . . . . 033	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
Streptococcal sore throat, scarlatina, and erysipelas . . . . . 034-035	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
Meningococcal infection . . . . . 036	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.2
Septicemia . . . . . 038	2.9	3.4	2.4	2.5	3.0	2.1	6.0	7.1	5.2	6.8	8.0	5.9
Acute poliomyelitis . . . . . 045	-	-	-	-	-	-	-	-	-	-	-	-
Measles . . . . . 055	0.0	-	0.0	0.0	-	0.0	-	-	-	-	-	-
Viral hepatitis . . . . . 070	0.3	0.4	0.3	0.3	0.3	0.2	0.5	0.6	0.5	0.5	0.5	0.6
Syphilis . . . . . 090-097	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.1	0.2	0.1
All other infectious and parasitic diseases . . . . . 001-003,005,020-032,037,039-041,046-054,056-066,071-088,098-139	1.5	1.7	1.3	1.3	1.5	1.1	2.5	2.8	2.2	2.7	3.0	2.5
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	131.6	163.7	108.6	128.5	158.3	107.2	156.7	209.4	117.5	171.3	232.0	127.1
Malignant neoplasms of lip, oral cavity, and pharynx . . . . . 140-149	2.8	4.5	1.5	2.6	4.0	1.4	4.6	8.0	2.0	5.1	8.8	2.1
Malignant neoplasms of digestive organs and peritoneum . . . . . 150-159	32.5	41.2	25.6	31.1	39.3	24.7	43.4	57.8	32.4	46.3	62.1	34.5
Malignant neoplasms of respiratory and intrathoracic organs . . . . . 160-165	36.6	59.6	18.8	35.8	57.8	18.8	42.7	74.6	18.3	47.5	84.1	20.1
Malignant neoplasm of breast . . . . . 174-175	12.5	0.2	22.7	12.5	0.2	22.8	12.1	0.3	21.4	13.5	0.3	23.7
Malignant neoplasms of genital organs . . . . . 179-187	13.3	14.9	13.4	12.6	13.6	13.0	20.3	26.5	16.6	22.5	30.3	17.9
Malignant neoplasms of urinary organs . . . . . 188-189	5.1	8.0	3.0	5.1	8.1	2.9	4.8	6.8	3.3	5.2	7.5	3.6
Malignant neoplasms of all other and unspecified sites . . . . . 170-173,190-199	16.8	20.5	13.9	16.8	20.4	13.9	17.2	21.4	13.9	18.8	23.8	15.0
Leukemia . . . . . 204-208	5.1	6.6	4.0	5.2	6.7	4.0	4.5	5.5	3.7	4.8	5.8	4.0
Other malignant neoplasms of lymphatic and hematopoietic tissues . . . . . 200-203	6.8	8.2	5.6	6.8	8.2	5.6	6.9	8.4	5.8	7.5	9.2	6.3
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	1.9	2.1	1.7	1.9	2.1	1.6	2.2	2.2	2.2	2.4	2.3	2.5
Diabetes mellitus . . . . . 250	9.8	10.0	9.6	8.8	9.3	8.4	17.9	15.6	19.5	19.5	16.8	21.3
Nutritional deficiencies . . . . . 260-269	0.5	0.5	0.4	0.4	0.5	0.4	0.8	1.0	0.7	0.9	1.0	0.8
Anemias . . . . . 280-285	0.9	1.0	0.8	0.7	0.9	0.7	1.9	2.1	1.7	2.2	2.5	2.0
Meningitis . . . . . 320-322	0.5	0.7	0.4	0.4	0.5	0.4	1.2	1.3	1.0	1.3	1.5	1.1
Major cardiovascular diseases . . . . . 390-448	245.6	329.7	179.7	238.7	324.3	171.6	296.2	369.1	239.9	326.4	408.7	264.1
Diseases of heart . . . . . 390-398,402,404-429	195.0	271.2	135.1	191.1	268.8	129.8	222.6	286.1	173.5	245.4	316.7	191.2
Rheumatic fever and rheumatic heart disease . . . . . 390-398	2.3	1.8	2.7	2.4	1.9	2.8	1.9	1.6	2.1	1.9	1.6	2.2
Hypertensive heart disease . . . . . 402	5.7	6.4	5.1	4.4	5.0	3.9	16.5	18.9	14.5	18.9	21.9	16.5
Hypertensive heart and renal disease . . . . . 404	0.8	0.8	0.7	0.6	0.7	0.6	2.0	2.0	2.0	2.3	2.3	2.2
Ischemic heart disease . . . . . 410-414	143.4	205.9	94.4	144.2	209.1	93.2	132.5	173.5	100.7	144.0	188.8	110.1
Acute myocardial infarction . . . . . 410	81.9	121.7	50.4	83.1	124.7	50.1	69.5	93.2	51.2	75.5	101.2	56.0

Other acute and subacute forms of ischemic heart disease . . . . .	411	1.3	2.1	0.8	1.3	1.9	0.7	2.2	3.1	1.5	2.5	3.5	1.7
Angina pectoris . . . . .	413	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.2	0.2	0.2
Old myocardial infarction and other forms of chronic ischemic heart disease . . . . .	412,414	60.0	81.9	43.1	59.7	82.3	42.3	60.5	76.9	47.8	65.9	83.8	52.3
Other diseases of endocardium . . . . .	424	2.0	2.5	1.6	1.9	2.5	1.5	2.0	2.6	1.7	2.2	2.8	1.8
All other forms of heart disease . . . . .	415-423,425-429	40.8	53.7	30.7	37.5	49.7	28.0	67.7	87.5	52.4	76.1	99.4	58.5
Hypertension with or without renal disease . . . . .	401,403	1.9	2.2	1.7	1.5	1.9	1.3	5.1	5.5	4.7	5.7	6.2	5.4
Cerebrovascular diseases . . . . .	430-438	38.1	41.7	35.4	35.6	38.9	33.1	58.6	65.6	53.2	64.4	72.7	58.1
Intracerebral and other intracranial hemorrhage . . . . .	431-432	6.0	6.5	5.5	5.3	5.7	5.0	11.0	13.3	9.2	12.0	14.6	9.9
Cerebral thrombosis and unspecified occlusion of cerebral arteries . . . . .	434.0,434.9	6.7	7.5	6.1	6.4	7.2	5.8	8.7	9.8	7.8	9.5	10.7	8.6
Cerebral embolism . . . . .	434.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2
All other and late effects of cerebrovascular diseases . . . . .	430,433,435-438	25.2	27.5	23.6	23.6	25.8	22.1	38.7	42.2	36.0	42.7	47.1	39.4
Atherosclerosis . . . . .	440	5.2	6.0	4.6	5.2	6.0	4.5	5.2	5.8	4.7	5.7	6.4	5.1
Other diseases of arteries, arterioles, and capillaries . . . . .	441-448	5.3	8.5	3.0	5.4	8.8	2.9	4.9	6.1	3.9	5.2	6.5	4.2
Acute bronchitis and bronchiolitis . . . . .	466	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Pneumonia and influenza . . . . .	480-487	12.3	16.6	9.2	11.6	15.6	9.0	16.3	24.0	10.5	17.7	26.4	11.3
Pneumonia . . . . .	480-486	11.6	16.0	8.6	11.0	14.9	8.4	15.9	23.5	10.1	17.3	25.9	10.9
Influenza . . . . .	487	0.6	0.6	0.6	0.6	0.7	0.6	0.4	0.4	0.4	0.5	0.5	0.4
Chronic obstructive pulmonary diseases and allied conditions . . . . .	490-496	16.3	26.2	9.5	16.7	26.8	9.8	11.7	19.6	5.9	12.6	21.4	6.3
Bronchitis, chronic and unspecified . . . . .	490-491	1.0	1.5	0.6	1.0	1.6	0.6	0.6	1.0	0.2	0.6	1.1	0.3
Emphysema . . . . .	492	3.8	6.4	1.9	3.9	6.6	2.1	2.1	4.1	0.7	2.3	4.5	0.7
Asthma . . . . .	493	1.0	1.0	1.1	0.9	0.8	0.9	2.1	2.2	1.9	2.3	2.4	2.1
Other chronic obstructive pulmonary diseases and allied conditions . . . . .	494-496	10.5	17.3	5.9	10.9	17.8	6.2	6.9	12.3	3.1	7.5	13.4	3.2
Ulcer of stomach and duodenum . . . . .	531-533	1.7	2.3	1.2	1.6	2.2	1.2	2.0	2.9	1.3	2.1	3.1	1.4
Appendicitis . . . . .	540-543	0.2	0.3	0.1	0.1	0.2	0.1	0.4	0.5	0.3	0.4	0.5	0.3
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . .	550-553,560	1.3	1.3	1.3	1.2	1.2	1.2	1.8	2.3	1.6	2.1	2.5	1.8
Chronic liver disease and cirrhosis . . . . .	571	11.4	16.0	7.4	10.5	14.8	6.7	17.6	24.7	11.9	19.2	27.3	12.7
Cholelithiasis and other disorders of gallbladder . . . . .	574-575	0.7	0.8	0.7	0.7	0.8	0.6	0.8	0.6	0.9	0.7	0.5	0.8
Nephritis, nephrotic syndrome, and nephrosis . . . . .	580-589	4.5	5.6	3.6	3.8	4.9	3.1	10.0	11.7	8.7	11.1	13.2	9.6
Acute glomerulonephritis and nephrotic syndrome . . . . .	580-581	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2
Chronic glomerulonephritis, nephritis and nephropathy, not specified as acute or chronic, and renal sclerosis, unspecified . . . . .	582-583,587	0.5	0.6	0.5	0.5	0.6	0.4	1.1	1.2	1.1	1.2	1.3	1.1
Renal failure, disorders resulting from impaired renal function, and small kidney of unknown cause . . . . .	584-586,588-589	3.8	4.9	3.1	3.3	4.3	2.6	8.7	10.3	7.5	9.7	11.6	8.3
Infections of kidney . . . . .	590	0.5	0.5	0.6	0.5	0.5	0.5	0.8	0.6	0.9	0.8	0.7	1.0
Hyperplasia of prostate . . . . .	600	0.1	0.4	...	0.1	0.4	...	0.2	0.6	...	0.2	0.6	...
Complications of pregnancy, childbirth, and the puerperium . . . . .	630-676	0.1	...	0.3	0.1	...	0.2	0.4	...	0.7	0.4	...	0.8
Pregnancy with abortive outcome . . . . .	630-638	0.0	...	0.0	0.0	...	0.0	0.1	...	0.1	0.1	...	0.1
Other complications of pregnancy, childbirth, and the puerperium . . . . .	640-676	0.1	...	0.2	0.1	...	0.2	0.3	...	0.6	0.3	...	0.7
Congenital anomalies . . . . .	740-759	5.8	6.1	5.5	5.8	6.1	5.5	5.6	5.8	5.5	5.9	6.2	5.7
Certain conditions originating in the perinatal period . . . . .	760-779	9.2	10.3	8.2	7.8	8.7	6.8	15.1	16.5	13.7	17.3	19.0	15.7
Birth trauma, intrauterine hypoxia, birth asphyxia, and respiratory distress syndrome . . . . .	767-769	2.8	3.3	2.3	2.6	3.0	2.1	3.9	4.6	3.3	4.5	5.2	3.7

**Table 9. Age-adjusted death rates for 72 selected causes by race and sex: United States, 1981—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
Certain conditions originating in the perinatal period—Con.												
Other conditions originating in the perinatal period . . . . . 760–766,770–779	6.4	6.9	5.8	5.2	5.7	4.7	11.2	11.9	10.4	12.9	13.8	12.0
Symptoms, signs, and ill-defined conditions . . . . . 780–799	9.8	13.0	7.1	8.3	11.0	5.9	20.6	27.7	15.0	22.8	30.7	16.6
All other diseases . . . . . Residual	34.4	42.1	28.4	31.7	38.8	26.2	53.3	66.6	42.9	58.9	74.3	47.0
Accidents and adverse effects . . . . . E800–E949	39.8	60.2	20.4	39.3	59.1	20.2	44.0	70.4	21.4	45.8	74.7	21.6
Motor vehicle accidents . . . . . E810–E825	21.8	32.7	11.3	22.5	33.4	11.7	18.6	30.1	8.7	18.3	30.7	7.7
All other accidents and adverse effects . . . . . E800–E807, E826–E949	18.0	27.5	9.1	16.8	25.7	8.4	25.4	40.2	12.7	27.6	44.0	13.9
Suicide . . . . . E950–E959	11.5	18.0	5.7	12.2	18.9	6.0	6.8	11.2	3.0	6.4	11.0	2.5
Homicide and legal intervention . . . . . E960–E978	10.4	16.7	4.3	6.6	10.3	3.1	33.3	58.5	11.4	38.9	69.2	12.9
All other external causes . . . . . E980–E999	1.5	2.2	0.9	1.3	1.9	0.8	2.8	4.4	1.4	3.1	4.9	1.5



**Table 10. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1981**

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

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races		All other		All races		All other	
	White	Black	Total	Black	White	Black	Total	Black
	Number				Rate			
All causes . . . . .	43,305	30,478	12,827	11,757	1,193.2	1,047.8	1,780.1	2,000.2
Certain intestinal infections . . . . . 008-009	130	71	59	56	3.6	2.4	8.2	9.5
Whooping cough . . . . . 033	5	5	-	-	0.1	0.2	-	-
Meningococcal infection . . . . . 036	125	107	18	16	3.4	3.7	2.5	2.7
Septicemia . . . . . 038	301	179	122	111	8.3	6.2	16.9	18.9
Viral diseases . . . . . 045-079	121	88	33	27	3.3	3.0	4.6	4.6
Congenital syphilis . . . . . 090	6	1	5	5	0.2	0.0	0.7	0.9
Remainder of infectious and parasitic diseases . . . . . 001-007,010-032,034-035,039-041,080-088,091-139	79	56	23	19	2.2	1.9	3.2	3.2
Malignant neoplasms, including neoplasms of lymphatic and hematopoietic tissues . . . . . 140-208	91	73	18	10	2.5	2.5	2.5	1.7
Benign neoplasms, carcinoma in situ, and neoplasms of uncertain behavior and of unspecified nature . . . . . 210-239	54	43	11	9	1.5	1.5	1.5	1.5
Diseases of thymus gland . . . . . 254	3	-	3	3	0.1	-	0.4	0.5
Cystic fibrosis . . . . . 277.0	22	21	1	1	0.6	0.7	0.1	0.2
Diseases of blood and blood-forming organs . . . . . 280-289	76	45	31	27	2.1	1.5	4.3	4.6
Meningitis . . . . . 320-322	422	270	152	140	11.6	9.3	21.1	23.8
Other diseases of nervous system and sense organs . . . . . 323-389	526	403	123	112	14.5	13.9	17.1	19.1
Acute upper respiratory infections . . . . . 460-465	64	38	26	23	1.8	1.3	3.6	3.9
Bronchitis and bronchiolitis . . . . . 466,490-491	130	90	40	36	3.6	3.1	5.6	6.1
Pneumonia and influenza . . . . . 480-487	809	507	302	274	22.3	17.4	41.9	46.6
Pneumonia . . . . . 480-486	796	498	298	272	21.9	17.1	41.4	46.3
Influenza . . . . . 487	13	9	4	2	0.4	0.3	0.6	0.3
Remainder of diseases of respiratory system . . . . . 470-478,492-519	511	331	180	168	14.1	11.4	25.0	28.6
Hernia of abdominal cavity and intestinal obstruction without mention of hernia . . . . . 550-553,560	126	93	33	28	3.5	3.2	4.6	4.8
Gastritis, duodenitis, and noninfective enteritis and colitis . . . . . 535,555-558	151	80	71	63	4.2	2.8	9.9	10.7
Remainder of diseases of digestive system . . . . . 520-534,536-543,562-579	208	136	72	64	5.7	4.7	10.0	10.9
Congenital anomalies . . . . . 740-759	8,914	7,224	1,690	1,443	245.6	248.4	234.5	245.5
Anencephalus and similar anomalies . . . . . 740	766	672	94	67	21.1	23.1	13.0	11.4
Spina bifida . . . . . 741	208	190	18	16	5.7	6.5	2.5	2.7
Congenital hydrocephalus . . . . . 742.3	343	277	66	57	9.5	9.5	9.2	9.7
Other congenital anomalies of central nervous system and eye . . . . . 742.0-742.2,742.4-742.9,743	338	261	77	64	9.3	9.0	10.7	10.9
Congenital anomalies of heart . . . . . 745-746	2,656	2,157	499	433	73.2	74.2	69.3	73.7
Other congenital anomalies of circulatory system . . . . . 747	910	660	250	222	25.1	22.7	32.7	37.8
Congenital anomalies of respiratory system . . . . . 748	742	582	160	140	20.4	20.0	22.2	23.8
Congenital anomalies of digestive system . . . . . 749-751	219	163	56	43	6.0	5.6	7.8	7.3
Congenital anomalies of genitourinary system . . . . . 752-753	458	395	63	60	12.6	13.6	8.7	10.2
Congenital anomalies of musculoskeletal system . . . . . 754-756	667	562	105	88	18.4	19.3	14.6	15.0
Down's syndrome . . . . . 758.0	108	79	29	23	3.0	2.7	4.0	3.9
Other chromosomal anomalies . . . . . 758.1-758.9	569	471	98	79	15.7	16.2	13.6	13.4
All other and unspecified congenital anomalies . . . . . 744,757,759	930	755	175	151	25.6	26.0	24.3	25.7
Certain conditions originating in the perinatal period . . . . . 760-779	21,510	14,472	7,038	6,623	592.7	497.5	976.7	1,126.7
Newborn affected by maternal conditions which may be unrelated to present pregnancy . . . . . 760	131	86	45	43	3.6	3.0	6.2	7.3
Newborn affected by maternal complications of pregnancy . . . . . 761	1,458	959	499	469	40.2	33.0	69.3	79.8
Newborn affected by complications of placenta, cord, and membranes . . . . . 762	977	739	238	233	26.9	25.4	33.0	37.9
Newborn affected by other complications of labor and delivery . . . . . 763	124	86	38	35	3.4	3.0	5.3	6.0
Slow fetal growth and fetal malnutrition . . . . . 764	46	32	14	13	1.3	1.1	1.9	2.2
Disorders relating to short gestation and unspecified low birthweight . . . . . 765	3,658	2,126	1,532	1,460	100.8	73.1	212.6	248.4

Table 10. Deaths under 1 year and infant mortality rates for 61 selected causes by race: United States, 1981—Con.

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

Cause of death (Ninth Revision International Classification of Diseases, 1975)	All races		All other		All races		All other	
	White	Total	White	Black	White	Total	White	Black
Certain conditions originating in the perinatal period—Con.								
Disorders relating to long gestation and high birthweight, . . . . . 766			Number		Rate			
Birth trauma . . . . . 767	3	2	1	1	0.1	0.1	0.1	0.2
Intrauterine hypoxia and birth asphyxia . . . . . 768	918	661	257	237	25.3	22.7	35.7	40.3
Fetal distress in liveborn infant . . . . . 768.2–768.4	1,405	954	451	416	38.7	32.8	62.6	70.8
Birth asphyxia . . . . . 768.5–768.9	255	171	84	78	7.0	5.9	11.7	13.3
Respiratory distress syndrome . . . . . 769	1,150	783	367	338	31.7	26.9	50.9	57.5
Other respiratory conditions of newborn . . . . . 770	4,319	3,194	1,125	1,050	119.0	109.8	156.1	178.6
Infections specific to the perinatal period . . . . . 771	3,608	2,466	1,142	1,075	99.4	84.8	158.5	182.9
Neonatal hemorrhage . . . . . 772	895	642	253	236	24.7	22.1	35.1	40.1
Hemolytic disease of newborn, due to isoimmunization, and other perinatal jaundice . . . . . 773–774	909	614	295	280	25.0	21.1	40.9	47.6
Syndrome of "infant of a diabetic mother" and neonatal diabetes mellitus . . . . . 775.0–775.1	68	53	15	14	1.9	1.8	2.1	2.4
Hemorrhagic disease of newborn . . . . . 776.0	9	7	2	2	0.2	0.2	0.3	0.3
All other and ill-defined conditions originating in the perinatal period . . . . . 775.2–775.9,776.1–779	10	3	7	7	0.3	0.1	1.0	1.2
Symptoms, signs, and ill-defined conditions . . . . . 780–799	2,972	1,848	1,124	1,062	81.9	63.5	156.0	180.7
Sudden infant death syndrome . . . . . 798.0	5,954	4,089	1,865	1,686	164.1	140.6	258.8	286.8
Symptoms, signs and all other ill-defined conditions . . . . . 780–797,798.1–799	5,295	3,676	1,619	1,462	145.9	126.4	224.7	248.7
Accidents and adverse effects . . . . . E800–E949	659	413	246	224	18.2	14.2	34.1	38.1
Inhalation and ingestion of food or other object causing obstruction of respiratory tract or suffocation . . . . . E911–E912	981	689	292	259	27.0	23.7	40.5	44.1
Accidental mechanical suffocation . . . . . E913	209	146	63	56	5.8	5.0	8.7	9.5
Other accidental causes and adverse effects . . . . . E800–E910,E914–E949	162	106	56	53	4.5	3.6	7.8	9.0
Homicide . . . . . E960–E969	610	437	173	150	16.8	15.0	24.0	25.5
Child battering and other maltreatment . . . . . E967	218	137	81	71	6.0	4.7	11.2	12.1
Other homicide . . . . . E960–E966,E968–E969	81	48	33	28	2.2	1.7	4.6	4.8
All other causes . . . . . Residual	137	89	48	43	3.8	3.1	6.7	7.3
	1,768	1,230	538	483	48.7	42.3	74.7	82.2



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: 1981

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 . . . . .	1,977,981	862.4	43,305	11.9	29,121	8.0
Male . . . . .	1,063,772	954.5	24,452	13.1	16,383	8.8
Female . . . . .	914,209	775.4	18,853	10.7	12,738	7.2
White . . . . .	1,731,233	880.3	30,478	10.5	20,592	7.1
Male . . . . .	925,490	965.1	17,411	11.7	11,707	7.8
Female . . . . .	805,743	799.6	13,067	9.2	8,885	6.3
All other . . . . .	246,748	755.0	12,827	17.8	8,529	11.8
Male . . . . .	138,282	889.4	7,041	19.2	4,676	12.8
Female . . . . .	108,466	633.0	5,786	16.3	3,853	10.9
Black . . . . .	228,560	841.7	11,757	20.0	7,900	13.4
Male . . . . .	127,296	991.6	6,451	21.7	4,339	14.6
Female . . . . .	101,264	707.3	5,306	18.3	3,561	12.3
Regions						
Northeast . . . . .	466,887	946.2	7,678	11.6	5,385	8.1
North Central . . . . .	518,871	880.1	11,407	12.2	7,827	8.4
South . . . . .	666,174	866.8	16,019	13.0	10,723	8.7
West . . . . .	326,049	737.8	8,201	10.4	5,186	6.5
Northeast						
New England . . . . .	111,334	894.4	1,721	10.5	1,240	7.5
Maine . . . . .	10,387	918.4	180	10.9	113	6.8
New Hampshire . . . . .	7,701	821.9	131	9.7	85	6.3
Vermont . . . . .	4,322	839.2	61	7.7	34	4.3
Massachusetts . . . . .	52,982	917.6	720	9.7	514	6.9
Rhode Island . . . . .	9,174	960.6	147	11.8	116	9.3
Connecticut . . . . .	26,768	853.6	482	12.1	378	9.5
Middle Atlantic . . . . .	355,553	963.7	5,957	11.9	4,145	8.3
New York . . . . .	168,184	955.7	3,006	12.4	2,074	8.6
New Jersey . . . . .	67,280	906.6	1,038	10.7	709	7.3
Pennsylvania . . . . .	120,089	1,011.3	1,913	11.9	1,362	8.5
North Central						
East North Central . . . . .	362,017	868.6	8,243	12.6	5,721	8.8
Ohio . . . . .	96,487	894.0	2,059	12.3	1,439	8.6
Indiana . . . . .	47,309	862.5	993	11.7	681	8.0
Illinois . . . . .	101,819	889.7	2,573	13.9	1,806	9.8
Michigan . . . . .	75,842	823.0	1,845	13.1	1,279	9.1
Wisconsin . . . . .	40,560	855.7	773	10.4	516	6.9
West North Central . . . . .	156,854	907.8	3,164	11.1	2,106	7.4
Minnesota . . . . .	32,837	798.4	706	10.3	454	6.6
Iowa . . . . .	26,949	924.8	459	10.0	297	6.5
Missouri . . . . .	48,848	988.8	973	12.6	669	8.7
North Dakota . . . . .	5,452	826.1	139	11.2	90	7.3
South Dakota . . . . .	6,451	934.9	147	11.5	97	7.6
Nebraska . . . . .	14,616	926.8	270	9.9	165	6.1
Kansas . . . . .	21,701	909.9	470	11.4	334	8.1
South						
South Atlantic . . . . .	335,949	891.3	7,501	13.6	5,115	9.3
Delaware . . . . .	5,073	849.7	123	13.4	92	10.0
Maryland . . . . .	33,949	797.1	771	12.6	558	9.1
District of Columbia . . . . .	6,954	1,098.6	231	25.1	179	19.5
Virginia . . . . .	42,237	778.6	991	12.5	716	9.0
West Virginia . . . . .	19,053	979.1	363	13.0	246	8.8
North Carolina . . . . .	49,236	827.2	1,101	13.1	737	8.8
South Carolina . . . . .	25,428	802.1	837	16.1	563	10.9
Georgia . . . . .	44,892	806.7	1,238	13.8	790	8.8
Florida . . . . .	109,127	1,075.5	1,846	13.3	1,234	8.9
East South Central . . . . .	132,664	899.7	3,054	13.2	2,058	8.9
Kentucky . . . . .	33,283	908.1	697	12.2	458	8.0
Tennessee . . . . .	40,509	876.1	847	12.6	595	8.9

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: 1981—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 . . . . .	35,412	903.4	799	13.0	519	8.4
Mississippi . . . . .	23,460	925.1	711	15.4	486	10.5
West South Central . . . . .						
Arkansas . . . . .	22,372	975.7	425	11.9	249	7.0
Louisiana . . . . .	36,024	838.7	1,130	13.7	761	9.3
Oklahoma . . . . .	28,617	921.9	637	11.9	386	7.2
Texas . . . . .	110,548	750.8	3,272	11.6	2,154	7.6
West						
Mountain . . . . .						
Montana . . . . .	80,474	687.5	2,398	10.4	1,493	6.5
Idaho . . . . .	6,729	846.4	153	10.7	90	6.3
Wyoming . . . . .	6,929	723.3	181	9.2	104	5.3
Colorado . . . . .	3,165	645.9	115	10.6	88	8.1
New Mexico . . . . .	19,388	651.5	519	10.0	340	6.5
Arizona . . . . .	8,678	651.0	261	9.8	157	5.9
Utah . . . . .	21,358	765.2	606	11.8	383	7.4
Nevada . . . . .	8,343	550.3	405	9.8	239	5.8
Pacific . . . . .	5,884	695.5	158	11.2	92	6.5
Washington . . . . .	245,575	755.8	5,803	10.3	3,693	6.6
Oregon . . . . .	32,031	759.0	733	10.5	441	6.3
California . . . . .	21,843	820.2	467	10.9	299	6.9
Alaska . . . . .	184,987	764.0	4,297	10.2	2,741	6.5
Hawaii . . . . .	1,723	414.2	128	12.7	81	8.0
	4,991	509.8	178	9.8	131	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 zero but less than 0.05
- \* Figure does not meet standard of reliability or precision

## Technical notes

### Nature and sources of data

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

Mortality statistics are based on information coded by the National Center for Health Statistics (NCHS) from copies of the original certificates received from the State registration offices, and on State-coded data provided to NCHS through the Vital Statistics Cooperative Program (VSCP). In 1981, 45 States participated in this program. For these States part or all of the mortality data for 1981 were provided on computer tape to NCHS. The following 16 States in the VSCP submitted precoded medical and nonmedical data for all deaths on computer tape: Colorado, Iowa, Kansas, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Mississippi, Nebraska, New Hampshire, North Carolina, Pennsylvania, South Carolina, Virginia, and Wisconsin. The following 15 VSCP States submitted precoded nonmedical data for all deaths and precoded medical data for part of the deaths along with copies of the original certificates from which NCHS coded the remaining medical data: Alabama, Arkansas, Florida, Idaho, Illinois, Indiana, Kentucky, Montana, Ohio, Oklahoma, Rhode Island, Tennessee, Texas, Washington, and West Virginia. The remaining 14 VSCP States submitted only precoded nonmedical data: Alaska, Connecticut, Hawaii, Maryland, Missouri, Nevada, New Jersey, New Mexico, New York, Oregon, South Dakota, Utah, Vermont, and Wyoming. For the five States and the District of Columbia that were not participants in the VSCP in 1981, NCHS coded all the nonmedical data and all or part of the medical data.

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. All data exclude fetal deaths.

### Cause-of-death classification

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

Causes of death for 1979–81 were classified according to the Ninth Revision International Classification of Diseases.<sup>1</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>2-4</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 the *NCHS Instruction Manual, Part 2a*.<sup>5</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. Death rates for 1981 are based on populations estimated as of July 1, 1981.<sup>6,7</sup> The estimates are based on the 1980 census count. The 1980 census counts by race were modified to be consistent with Office of Management and Budget categories and historical categories for death data. The modification procedures are discussed in detail in a Census Bureau report.<sup>8</sup>

Rates for 1979 used in this report have been revised, based on revised populations that are consistent with the 1980 census levels.<sup>8</sup> These rates are not comparable with those to be published in *Vital Statistics of the United States, Volume II, Mortality*, for 1979. 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, C, and D are based on the List of 72 Selected Causes of Death, and the 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 represents a subtotal is ranked (for example Tuberculosis), its component parts (in this case, Tuberculosis of respiratory system and Other tuberculosis) are not ranked.

NOTE: A list of references follows the text.

### Age-adjusted rates

The age-adjusted rates presented in this report were computed by the direct method, that is, by applying the age-specific death rates for a given cause of death to the standard population distributed by age. The total population as enumer-

ated 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 1981. More detailed tabulations for 1981 will be published in *Vital Statistics of the United States, 1981, 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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